Yorkville

WEB: www.yorkville.com

WORLD HEADQUARTERS

CANADA

Yorkville Sound Limited
550 Granite Court
Pickering, Ontario
L1W 3Y8 CANADA

Voice: 905-837-8481
Fax: 905-837-8746

U.S.A.

Yorkville Sound Inc.
4625 Witmer Industrial Estate
Niagara Falls, New York
14305, USA

Voice: 716-297-2920
Fax: 716-297-3689

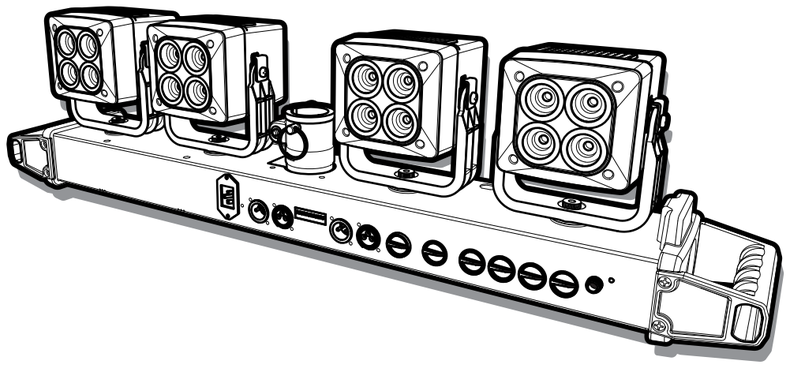
Quality and Innovation Since 1963

Printed in Canada

Yorkville

SERVICE MANUAL

LP-LED2X & LPLED4X



SMT Disclaimer

Due to the complex nature of the use of SMT installed components in Yorkville equipment, we highly caution all service technicians in attempting to repair or replace SMT factory installed components.

Many of these components may be glued prior to initial soldering.

Replacing SMT components requires expensive specialized de-soldering equipment and training.

Yorkville Sound will repair and replace defective SMT components to ensure proper quality assurance and installation is maintained.

Manual-Service-LP-LED_X-00-1v6 • July 14, 2025

IMPORTANT SAFETY INSTRUCTIONS

This lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

Ce symbole d'éclair avec tête de flèche dans un triangle équilatéral est prévu pour alerter l'utilisateur de la présence d'un «voltage dangereux» non-isolé à proximité de l'enceinte du produit qui pourrait être d'ampleur suffisante pour présenter un risque de choque électrique.

The DO NOT STACK symbol is intended to alert the user that the product shall not be vertically stacked because of the nature of the product.

La symbole NE PAS EMPILER est pour alerter l'utilisateur que le produit ne doit pas être empilé verticalement en raison de la nature du produit.

SEPARATE COLLECTION WEEE

CAUTION • AVIS

RISK OF ELECTRIC SHOCK DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

DO NOT PUSH OR PULL

IEC 60417-5041

CAUTION: HOT SURFACE
ATTENTION: SURFACE CHAUDE

NOT TO BE SERVICED BY USERS

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Le point d'exclamation à l'intérieur d'un triangle équilatéral est prévu pour alerter l'utilisateur de la présence d'instructions importantes dans la littérature accompagnant l'appareil en ce qui concerne l'opération et la maintenance de cet appareil.

CAUTION: OVERHEAD LOAD
ATTENTION: CHARGE AÉRIENNE

FOLLOW ALL INSTRUCTIONS

Instructions pertaining to a risk of fire, electric shock, or injury to a person

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. THIS DEVICE IS FOR INDOOR USE ONLY! INSTALLED BATTERY PACKS SHALL NOT BE EXPOSED TO EXCESSIVE HEAT SUCH AS SUNSHINE, FIRE OR THE LIKE.

Read Instructions: The Owner's Manual should be read and understood before operation of your unit. Please, save these instructions for future reference and heed all warnings.

Cleaning: Clean only with dry cloth.

Packaging: Keep the box and packaging materials, in case the unit needs to be returned for service.

Warning: To reduce the risk or fire or electric shock, do not expose this apparatus to rain or moisture. *Do not use this apparatus near water!*

Warning: When using electric products, basic precautions should always be followed, including the following:

Power Sources

Your unit should be connected to a power source only of the voltage specified in the owners manual or as marked on the unit. This unit has a polarized plug. Do not use with an extension cord or receptacle unless the plug can be fully inserted. Precautions should be taken so that the grounding scheme on the unit is not defeated. An apparatus with CLASS I construction shall be connected to a Mains socket outlet with a protective earthing connection. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

Hazards

Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious personal injury and serious damage to the product. Use only with cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer. Only use attachments/accessories specified by the manufacturer.

Equipment that is suspended overhead must use a secondary safeguard to prevent personal injury in the event the primary mounting mechanism fails. Safety eyebolts attached to the equipment and galvanized steel wire can be used together to implement a failsafe mounting thus ensuring the safety of the equipment and anyone positioned below the equipment.

Improper installation can result in bodily injury or death. If you are not qualified to attempt the installation get help from a professional structural rigger.

Note: Prolonged use of headphones at a high volume may cause health damage to your ears.

The apparatus should not be exposed to dripping or splashing water; no objects filled with liquids should be placed on the apparatus.

Terminals marked with the "lightning bolt" are hazardous live; the external wiring connected to these terminals require installation by an instructed person or the use of ready made leads or cords.

Ensure that proper ventilation is provided around the appliance. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

Power Cord

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. The AC supply cord should be routed so that it is unlikely that it will be damaged. Protect the power cord from being walked on or pinched particularly at plugs. If the AC supply cord is damaged DO NOT OPERATE THE UNIT. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle. The mains plug of the power supply cord shall remain readily operable.

Unplug this apparatus during lightning storms or when unused for long periods of time.

Service

The unit should be serviced only by qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, requires battery pack replacement or has been dropped. Disconnect power before servicing!

SUIVEZ TOUTES LES INSTRUCTIONS

Instructions relatives au risque de feu, choc électrique, ou blessures aux personnes

AVIS: AFIN DE REDUIRE LES RISQUE DE CHOC ELECTRIQUE, N'ENLEVEZ PAS LE COUVERT (OU LE PANNEAU ARRIERE) NE CONTIENT AUCUNE PIECE REPARABLE PAR L'UTILISATEUR. CONSULTEZ UN TECHNICIEN QUALIFIE POUR L'ENTRETIENT CE PRODUIT EST POUR L'USAGE À L'INTÉREUR SEULEMENT. LES PACKS BATTERIES INSTALLÉS NE DOIVENT PAS ÊTRE EXPOSÉS À UNE CHALEUR EXCESSIVE TELLE QUE LE ENSOLEILLEMENT, LE FEU OU SIMILAIRES.

Veuillez Lire le Manuel: Il contient des informations qui devraient êtres comprises avant l'opération de votre appareil. Conservez. Gardez S.V.P. ces instructions pour consultations ultérieures et observez tous les avertissements.

Nettoyage: Nettoyez seulement avec le tissu sec.

Emballage: Conservez la boite au cas ou l'appareil devait être retourner pour réparation.

Avertissement: Pour réduire le risque de feu ou la décharge électrique, n'exposez pas cet appareil à la pluie ou à l'humidité. *N'utilisez pas cet appareil près de l'eau!*

Attention: Lors de l'utilisation de produits électrique, assurez-vous d'adhérer à des précautions de bases incluant celle qui suivent:

Alimentation - L'appareil ne doit être branché qu'à une source d'alimentation correspondant au voltage spécifié dans le manuel ou tel qu'indiqué sur l'appareil. Cet appareil est équipé d'une prise d'alimentation polarisée. Ne pas utiliser cet appareil avec un cordon de raccordement à moins qu'il soit possible d'insérer complètement les trois lames. Des précautions doivent êtres prises afin d'eviter que le système de mise à la terre de l'appareil ne soit désengagé. Un appareil construit selon les normes de CLASS I devrait être raccordé à une prise murale d'alimentation avec connexion intacte de mise à la masse. Lorsqu'une prise de branchement ou un coupleur d'appareils est utilisée comme dispositif de débranchement, ce dispositif de débranchement devra demeurer pleinement fonctionnel avec raccordement à la masse.

Risque - Ne pas placer cet appareil sur un chariot, un support, un trépied ou une table instables. L'appareil pourrait tomber et blesser quelqu'un ou subir des dommages importants. Utiliser seulement un chariot, un support, un trépied ou une table recommandés par le fabricant ou vendus avec le produit. Suivre les instructions du fabricant pour installer l'appareil et utiliser les accessoires recommandés par le fabricant. Utilisez seulement les attachements/accessoires indiqués par le fabricant.

L'équipement suspendu au-dessus de la tête doit utiliser une protection secondaire pour éviter les blessures en cas de défaillance du mécanisme de montage principal. Les boulons à œil de sécurité fixés à l'équipement et le fil d'acier galvanisé peuvent être utilisés ensemble pour mettre en œuvre un montage à sécurité intégrée, assurant ainsi la sécurité de l'équipement et de toute personne placée sous l'équipement.

Une installation incorrecte peut entraîner des blessures corporelles ou la mort. Si vous n'êtes pas qualifié pour tenter l'installation, demandez l'aide d'un gréeur structurel professionnel.

Remarque : L'utilisation prolongée d'écouteurs à un volume élevé peut nuire à la santé de vos oreilles.

Il convient de ne pas placer sur l'appareil de sources de flammes nues, telles que des bougies allumées.

L'appeil ne doit pas être exposé à des égouttements d'eau ou des éclaboussures et qu'aucun objet rempli de liquide tel que des vases ne doit être placé sur l'appareil.

Assurez que lappareil est fourni de la propre ventilation. Ne procédez pas à l'installation près de source de chaleur tels que radiateurs, registre de chaleur, fours ou autres appareils (incluant les amplificateurs) qui produisent de la chaleur.

Les dispositifs marqués d'une symbole "d'éclair" sont des parties dangereuses au toucher et que les câblages extérieurs connectés à ces dispositifs de connection extérieure doivent être effectivés par un opérateur formé ou en utilisant des cordons déjà préparés.

Cordon d'Alimentation - Ne pas enlever le dispositif de sécurité sur la prise polarisée ou la prise avec tige de mise à la masse du cordon d'alimentation. Une prise polarisée dispose de deux lames dont une plus large que l'autre. Une prise avec tige de mise à la masse dispose de deux lames en plus d'une troisième tige qui connecte à la masse. La lame plus large ou la tige de mise à la masse est prévu pour votre sécurité. La prise murale est désuète si elle n'est pas conçue pour accepter ce type de prise avec dispositif de sécurité. Dans ce cas, contactez un électricien pour faire remplacer la prise murale. Évitez d'endommager le cordon d'alimentation. Protégez le cordon d'alimentation. Assurez-vous qu'on ne marche pas dessus et qu'on ne le pince pas en particulier aux prises. N'UTILISEZ PAS L'APPAREIL si le cordon d'alimentation est endommagé. Pour débrancher complètement cet appareil de l'alimentation CA principale, déconnectez le cordon d'alimentation de la prise d'alimentation murale. Le cordon d'alimentation du bloc d'alimentation de l'appareil doit demeurer pleinement fonctionnel.

Débranchez cet appareil durant les orages ou si inutilisé pendant de longues périodes.

Service - L'appareil ne doit être entretenu que par un personnel de service qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque manière que ce soit, comme le cordon d'alimentation ou la fiche est endommagé, du liquide a été renversé ou des objets sont tombés dans l'appareil, l'appareil a été exposé à la pluie ou à l'humidité, ne fonctionne pas normalement , nécessite le remplacement de la batterie ou est tombé. Débranchez l'alimentation avant l'entretien!

IMPORTANT SAFETY INSTRUCTIONS

The Lightning Flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product enclosure that may be of sufficient magnitude to constitute a risk of shock to persons

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prongs are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING:

• To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.

• To completely disconnect this apparatus from the ac mains, disconnect the power supply cord plug from the ac receptacle.

• The mains plug of the power supply cord or appliance coupler shall remain readily accessible.

Le symbole représentant un éclair avec une flèche à l'intérieur d'un triangle équilatéral est utilisé pour prévenir l'utilisateur de la présence d'une tension électrique dangereuse non isolée à l'intérieur de l'appareil. Cette tension est d'un niveau suffisamment élevé pour représenter un risque d'électrocution

Le symbole représentant un point d'exclamation à l'intérieur d'un triangle équilatéral, signale à l'utilisateur la présence d'instructions importantes relatives au fonctionnement et à l'entretien de l'appareil dans cette notice d'installation

1. Lisez ces instructions.
2. Conservez ces instructions.
3. Respecter tous les avertissements.
4. Suivez toutes les instructions.
5. N'utilisez pas l'appareil près de l'eau.
6. Nettoyer uniquement avec chiffon sec.
7. Ne bloquez pas les ouvertures de ventilation. Installer en suivant les instructions du fabricant.
8. Ne pas installer près des sources de chaleur telles que radiateurs, bouches de chaleur, four ou autres appareils (y compris les amplificateurs) produisant de la chaleur.
9. N'annulez pas l'objectif sécuritaire de la fiche polarisée ou de la tige de mise à la terre. Une fiche polarisée possède deux lames avec une plus large que l'autre. Une prise avec mise à la terre possède deux lames et une troisième tige. La lame large ou la troisième tige sont fournis pour votre sécurité. Si la fiche n'entre pas dans votre prise, consultez un électricien pour remplacer la prise obsolète.
10. Protéger le cordon d'alimentation des piétinements ou pincements en particulier près des fiches, des prises de courant et au point de sortie de l'appareil.
11. Utilisez uniquement les accessoires spécifiés par le fabricant.
12. Utiliser uniquement avec un charriot, stand, trépied ou une table spécifiée par le fabricant, ou vendus avec l'appareil.
13. Débranchez l'appareil durant un orage ou lorsqu'il reste inutilisé pendant de longues périodes de temps.
14. Confiez toute réparation à un technicien qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque façon que ce soit; comme lorsque le cordon d'alimentation ou la fiche est endommagé, lorsque du liquide a été renversé ou des objets sont tombés à l'intérieur, lorsque l'appareil a été exposé à la pluie ou l'humidité, ne fonctionne pas normalement, ou est tombé.

AVERTISSEMENT:

• Pour réduire les risques d'incendie ou de choc électrique, ne pas exposer cet appareil à la pluie ou à l'humidité et ne placez pas d'objets contenant des liquides, tels que des vases, sur l'appareil.

• Pour isoler totalement cet appareil de l'alimentation secteur, débranchez totalement son cordon d'alimentation du réceptacle CA.

• La prise du cordon d'alimentation ou du prolongateur, si vous en utilisez un comme dispositif de débranchement, doit rester facilement accessible

CAUTION
TO PREVENT ELECTRIC SHOCK HAZARD, DO NOT CONNECT TO MAINS POWER SUPPLY WHILE GRILLE IS REMOVED.

AVIS
POUR PRÉVENIR LES RISQUES D'ÉLECTROCUTION, NE PAS RACCORDER A L'ALIMENTATION ÉLECTRIQUE ALORS QUE LA GRILLE EST RETIRÉE.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with ISED Canada's license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet équipement a été testé et déclaré conforme aux limites d'un appareil numérique de classe B, conformément à la partie 15 des règles de la FCC. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles dans une installation résidentielle. Cet équipement génère, utilise et peut émettre de l'énergie de radiofréquence et, s'il n'est pas installé et utilisé conformément aux instructions, peut causer des interférences nuisibles aux communications radio. Cependant, il n'y a aucune garantie que des interférences ne se produiront pas dans une installation particulière. Si cet équipement cause des interférences nuisibles à la réception radio ou télévision, ce qui peut être déterminé en éteignant et en rallumant l'équipement, l'utilisateur est encouragé à essayer de corriger l'interférence par une ou plusieurs des mesures suivantes :

- Réorientez ou déplacez l'antenne de réception.
- Augmenter la distance entre l'équipement et le récepteur.
- Branchez l'équipement dans une prise sur un circuit différent de celui auquel le récepteur est connecté.
- Consultez le revendeur ou un technicien radio/TV expérimenté pour obtenir de l'aide.

ATTENTION : Les changements ou modifications non expressément approuvés par la partie responsable de la conformité peuvent annuler l'autorité de l'utilisateur à faire fonctionner l'équipement.

Le présent appareil est conforme aux CNR ISDE Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.


DMX IN
DMX OUT
DMX
ON
11 9 7 5 3 1
12 10 8 6 4 2
Mode
Address
Yorkville
YS#9028
YS#10000
YS#10001
LP-LED2X
Stage Lighting Lightbar
Bluetooth SMART
Yorkville Sound
550 Granite Court
Pickering, Ontario
Canada L1W 3Y8
LP-LED2X REV3 A-Z1820R / 4v0
Serial Number
DESIGNED & MANUFACTURED BY
YORKVILLE SOUND • TORONTO, CANADA
Contains Transmitter Module FCC ID: WAP2011
Contains Transmitter Module ID: 7922A-2011
This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Certified Electrical Safety LR1004
100-240V~ 1.2-0.5A 50/60 Hz
120W MAX STANDALONE
8.0-3.2A 920W MAX WITH AC OUTLET
Circuit Breaker
CAUTION • AVIS
RISK OF ELECTRIC SHOCK DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR
100-240V~ 6.8-2.8A
680W MAX on first outlet
SEE OWNERS MANUAL FOR CASCADE INSTALLATION
DRY LOCATIONS ONLY
POUR EMPLACEMENTS SECS SOULEMENT
DISCONNECT POWER BEFORE SERVICING!
DEBRANCHER L'APPAREIL AVANT D'ENLEVER LES COUVERCLES!
NOT FOR RESIDENTIAL USE
PAS POUR USAGE RÉSIDENTIEL
FOR CONNECTING TO A YORKVILLE CONTROLLER
• DO NOT CONNECT TO DMX •
OUT
IN
Brightness
Min
Max
Function
Slow
Fast
4s
2.5s
60s
120s
2.5s
120s
CHASE
FADE
COLOR
MULTI COLOR
SOUND TO LIGHT
RAINBOW
FLASH
CHANGE
STEP
Off
On
Lamp Color
1
2
Off
Off
Audio IN
Channel Assign
Pwr
Ch 1,2
Ch 3,4


DMX IN
DMX OUT
DMX
ON
12 10 8 6 4 2
11 9 7 5 3 1
Mode
Address
Yorkville
YS#9028
YS#10000
YS#10001
Bluetooth SMART
LP-LED2X
Stage Lighting Lightbar
Contains Transmitter Module FCC ID: WAP2011
Contains Transmitter Module ID: 7922A-2011
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
CAUTION • AVIS
RISK OF ELECTRIC SHOCK DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR
Certified Electrical Safety LR1004
LP-LED2X REV2 A-Z1727R / 1v4
Serial Number
DESIGNED & MANUFACTURED BY
YORKVILLE SOUND • TORONTO, CANADA
100-240V~ 1.2-0.5A 50/60 Hz
DRY LOCATIONS ONLY
POUR EMPLACEMENTS SECS SOULEMENT
DISCONNECT POWER BEFORE SERVICING!
DEBRANCHER L'APPAREIL AVANT D'ENLEVER LES COUVERCLES!
NOT FOR RESIDENTIAL USE
PAS POUR USAGE RÉSIDENTIEL
FOR CONNECTING TO A YORKVILLE CONTROLLER
• DO NOT CONNECT TO DMX •
OUT
IN
Brightness
Min
Max
Function
Slow
Fast
2.5s
4s
60s
120s
2.5s
120s
CHASE
COLOR FADE
COLOR PULSE
SOUND TO LIGHT
TRIGGER
FLASH
CHANGE
STEP
On
Off
Lamp Color
1
2
Off
Off
Audio IN
Pwr
Channel Assign
Ch 1,2
Ch 3,4


DMX IN
DMX OUT
DMX
ON
11 9 7 5 3 1
12 10 8 6 4 2
Mode
Address
Yorkville
YS#9028
YS#10000
YS#10001
Bluetooth SMART
LP-LED2X
Stage Lighting Lightbar
Contains Transmitter Module FCC ID: WAP2011
Contains Transmitter Module ID: 7922A-2011
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
CAUTION • AVIS
RISK OF ELECTRIC SHOCK DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR
Certified Electrical Safety LR1084
100-240V~ 1.2-0.5A 50/60 Hz
120W MAX STANDALONE
8.0-3.2A 920W MAX WITH AC OUTLET
LP-LED2X REV2 A-Z1820R / 3v0
Serial Number
DESIGNED & MANUFACTURED BY
YORKVILLE SOUND • TORONTO, CANADA
100-240V~ 6.8-2.8A
680W MAX on first outlet
SEE OWNERS MANUAL FOR
CASCADE INSTALLATION
DRY LOCATIONS ONLY
POUR EMPLACEMENTS
SECS SOULEMENT
DISCONNECT POWER
BEFORE SERVICING!
DEBRANCHER L'APPAREIL AVANT
D'ENLEVER LES COUVERCLES!
NOT FOR RESIDENTIAL USE
PAS POUR USAGE RÉSIDENTIEL
FOR CONNECTING TO A
YORKVILLE CONTROLLER
• DO NOT CONNECT TO DMX •
OUT
IN
Brightness
Min
Max
Function
Slow
Fast
2.5s
4s
60s
120s
2.5s
120s
CHASE
COLOR FADE
MULTI COLOR FADE
SOUND TO LIGHT
RAINBOW
On
Off
FLASH
CHANGE
STEP
Lamp Color
1
2
Off
Off
Audio IN
Pwr
Channel Assign
Ch 1,2
Ch 3,4


YS#9028
YS#10000
YS#10001
Yorkville
Serial Number
LP-LED4X REV3
A-276191 / A00
DESIGNED & MANUFACTURED BY
YORKVILLE SOUND • TORONTO, CANADA
Circuit Breaker
Bluetooth SMART
LP-LED4X
Stage Lighting Lightbar
CAUTION • AVIS
RISK OF ELECTRIC SHOCK
DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR
Contains Transmitter Module FCC ID: WAP2011
Contains Transmitter Module ID: 7922A-2011
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Certified Electrical Safety LR10004
100-240V~ 2.4-1.0A 50/60 Hz
240W MAX STANDALONE
8.0-3.2A 920W MAX WITH AC OUTLET
DRY LOCATIONS ONLY
POUR EMPLACEMENTS SECS SOULEMENT
DISCONNECT POWER BEFORE SERVICING!
DEBRANCHER L'APPAREIL AVANT D'ENLEVER LES COUVERCLES!
NOT FOR RESIDENTIAL USE
PAS POUR USAGE RESIDENTIEL
100-240V~ 5.6-2.2A
560W MAX on first outlet
SEE OWNERS MANUAL FOR CASCADE INSTALLATION
DMX IN
DMX OUT
DMX
ON
12 10 8 6 4 2
11 9 7 5 3 1
Mode
Address
FOR CONNECTING TO A YORKVILLE CONTROLLER
• DO NOT CONNECT TO DMX •
OUT
IN
Brightness
Min
Max
Function
Slow
Fast
4s
2.5s
60s
120s
2.5s
120s
COLOR FADE
COLOR JUMP
COLOR CHASE
SOUND TO LIGHT
FLASH
CHANGE
STEP
Off
Lamp Color
1
2
3
4
Off
Audio IN
Pwr


YS#9028
YS#10000
YS#10001
Yorkville
Yorkville
Bluetooth™ SMART
LP-LED4X
Stage Lighting Lightbar
Contains Transmitter Module FCC ID: WAP2011
Contains Transmitter Module ID: 7922A-2011
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
CAUTION • AVIS
RISK OF ELECTRIC SHOCK DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR
LP-LED4X REV2
A-Z1821R / 3v0
Serial Number
DESIGNED & MANUFACTURED BY YORKVILLE SOUND • TORONTO, CANADA
Certified Electrical Safety LR1004
100-240V∿ 2.4-1.0A 50/60 Hz
240W MAX STANDALONE
8.0-3.2A 920W MAX WITH AC OUTLET
DRY LOCATIONS ONLY
POUR EMPLACEMENTS SECS SOULEMENT
DISCONNECT POWER BEFORE SERVICING!
DEBRANCHER L'APPAREIL AVANT D'ENLEVER LES COUVERCLES!
NOT FOR RESIDENTIAL USE
PAS POUR USAGE RÉSIDENTIEL
100-240V∿ 5.6-2.3A
560W MAX on first outlet
SEE OWNERS MANUAL FOR CASCADE INSTALLATION
DMX
DMX IN
DMX OUT
ON
11 9 7 5 3 1
12 10 8 6 4 2
Mode
Address
FOR CONNECTING TO A YORKVILLE CONTROLLER
• DO NOT CONNECT TO DMX •
OUT
IN
Brightness
Min
Max
Function
Slow
Fast
2.5s
4s
60s
120s
2.5s
120s
CHASE
COLOR
FADE
MULTI COLOR FADE
SOUND TO LIGHT
AUDIO TRIGGER
FLASH
CHANGE
STEP
D C B A
On
Off
Lamp Color
1
2
3
4
Off
Off
Off
Off
Audio IN
Pwr


YS#9028
YS#10000
YS#10001
Yorkville
LP-LED4X
Stage Lighting Lightbar
Bluetooth SMART
Contains Transmitter Module FCC ID: WAP2011
Contains Transmitter Module ID: 7922A-2011
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
CAUTION • AVIS
RISK OF ELECTRIC SHOCK DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR
LP-LED4X REV2
A-Z1680R / 2v1
Serial Number
DESIGNED & MANUFACTURED BY YORKVILLE SOUND • TORONTO, CANADA
Certified Electrical Safety LR10504
100-240V~ 2.4-1.0A 50/60 Hz
DRY LOCATIONS ONLY
POUR EMPLACEMENTS SECS SOULEMENT
DISCONNECT POWER BEFORE SERVICING!
DEBRANCHER L'APPAREIL AVANT D'ENLEVER LES COUVERCLES!
NOT FOR RESIDENTIAL USE
PAS POUR USAGE RÉSIDENTIEL
DMX IN
DMX OUT
DMX
ON
12 10 8 6 4 2
11 9 7 5 3 1
Mode
Address
FOR CONNECTING TO A YORKVILLE CONTROLLER
• DO NOT CONNECT TO DMX •
OUT
IN
Brightness
Min
Max
Function
Slow
Fast
2.5s
4s
60s
120s
2.5s
120s
COLOR FADE
SOUND TO COLOR
COLOR CHANGE
SOUND TO FLASH
FLASH CHANGE STEP
Lamp Color
1
2
3
4
Off
Audio IN
Pwr

Specifications	
Max AC Input Voltage	100-240VAC 50/60 Hz
Power Consumption LEDs	14 watts per LED (4 LEDs, 56 watts per pod)
Power Consumption	**LP-LED2X:** 120VA, 1.0A @ 120VAC Nominal
	LP-LED4X: 240VA, 2.0A @ 120VAC Nominal
Stand Mount Size	1 3/8 inch Round
Controller Cable	Yorkville: Standard Shielded 3-pin XLR Cable
Other	DMX: Standard Shielded 3-pin XLR Cable
Dimensions (LWH)	**LP-LED2X:** 24 x 4.8 x 8 inches (61 x 12.25 x 20.4 cm)
	LP-LED4X: 31 x 4.8 x 8 inches (78.8 x 12.25 x 20.4 cm)
Weight	**LP-LED2X:** 9.5 lbs (4.3 kg)
	LP-LED4X:14.6 lbs (6.6 kg)

Spécifications	
Tension CA d'entrée Maximum	100-240VCA 50/60 Hz
Consommation de Puissance des DEL	14 watts par DEL, 4 DEL par unité, 56 watts total
Consommation de Puissance des DEL	270 Watts
Taille montage sur support	1 pouce 3/8, Rond
Câble de raccordement pour contrôleur	Câble Blindé Standard avec prise XLR 3 tiges
Autre	Module DMX Optionnel
Dimensions (LPH)	**LP-LED2X:** 24 x 4.8 x 8 pouce (61 x 12.25 x 20.4 cm)
	LP-LED4X: 31 x 4.8 x 8 pouce (78.8 x 12.25 x 20.4 cm)
Poids	**LP-LED2X:** 9.5 lbs (4.3 kg)
	LP-LED4X:14.6 lbs (6.6 kg)

M1486 Parts Reference List 11/1/2018

REF	YS #	Description
C1		__1U0 50V 10%CAP 1206 SMT CER
C2		__1U0 50V 10%CAP 1206 SMT CER
C3		100N 25V 10%CAP 0805 SMT X7R
C4		__1U0 50V 10%CAP 1206 SMT CER
C5		100N 25V 10%CAP 0805 SMT X7R
C6		__1U0 50V 10%CAP 1206 SMT CER
C8		__1U0 50V 10%CAP 1206 SMT CER
C9		470N 50V 5%CAP 1206 SMT X7R
C10		470N 50V 5%CAP 1206 SMT X7R
C11		__1N 50V 5%CAP 0805 SMT NPO
C12		100N 25V 10%CAP 0805 SMT X7R
C13		__1U 25V 20%CAP 1206 SMT X7R
C14		__1U 25V 20%CAP 1206 SMT X7R
C16		100N 250V 10%CAP 1206 SMT X7R
C17		__1U 25V 20%CAP 1206 SMT X7R
C18		__1U0 50V 10%CAP 1206 SMT CER
C19		100N 25V 10%CAP 0805 SMT X7R
C20		100N 25V 10%CAP 0805 SMT X7R
C21		100N 25V 10%CAP 0805 SMT X7R
C23		__1U 25V 20%CAP 1206 SMT X7R
D1		MBRA340T3 40V 3A SHTKY 403D SMT
D3		MBRA340T3 40V 3A SHTKY 403D SMT
D4		MBRA340T3 40V 3A SHTKY 403D SMT
D5		MBRA340T3 40V 3A SHTKY 403D SMT
D6		MMBZ5227B 3V6 0W35 5% SMT ZEN
D7		BZX84B5V1 5V1 0W2 SOT-23 SMT ZEN
L3		120UH COIL 0R4 10MMSQ SMT
L4		120UH COIL 0R4 10MMSQ SMT
L6		120UH COIL 0R4 10MMSQ SMT
L7		120UH COIL 0R4 10MMSQ SMT
L8		220.0UH COIL SMT
LD1		0A7 RGBW LED EMITTER SMT
LD2		0A7 RGBW LED EMITTER SMT
LD3		0A7 RGBW LED EMITTER SMT
LD4		0A7 RGBW LED EMITTER SMT
Q1		FDFS6N754 MFET & SCHTKY SMT
R1		W250 0R 1206 SMT RES
R2		W125 0R06 1% 1206 SMT RES
R3		W250 0R 1206 SMT RES
R4		W125 0R06 1% 1206 SMT RES
R5		W250 0R 1206 SMT RES
R6		W125 0R06 1% 1206 SMT RES
R7		W250 0R 1206 SMT RES
R8		W100 1K0 1% 0805 SMT RES
R9		W125 10R0 1% 0805 SMT RES
R10		1W00 1K 5% 2512 SMT RES
R11		W125 10K 5% 0805 SMT RES
R12		W125 100K 5% 0805 SMT RES
R13		W250 1R 5% 1206 SMT RES
R14		W125 10K 5% 0805 SMT RES
R15		W250 100R 5% 1206 SMT RES
R16		W250 0R 1206 SMT RES
R17		W250 0R 1206 SMT RES
R18		W250 0R 1206 SMT RES
R19		W250 0R 1206 SMT RES
R21		W250 0R 1206 SMT RES
R22		W250 0R 1206 SMT RES
R23		W125 0R06 1% 1206 SMT RES
R24		W250 0R 1206 SMT RES
R25		W250 0R 1206 SMT RES
R26		W250 0R 1206 SMT RES
R27		W250 0R 1206 SMT RES
R28		W250 0R 1206 SMT RES
R29		W250 0R 1206 SMT RES
R32		W250 0R 1206 SMT RES
R33		W750 0R 1% 2010 SMT JMP
R34		W250 0R 1206 SMT RES
R35		_10K 5% THERMISTOR NTC 0603 SMT
R36		W250 0R 1206 SMT RES
R38		W250 0R 1206 SMT RES
R39		W250 0R 1206 SMT RES
R40		W250 0R 1206 SMT RES
R41		W250 0R 1206 SMT RES
R42		W250 0R 1206 SMT RES
R43		W250 0R 1206 SMT RES
R44		W250 0R 1206 SMT RES
R45		W250 0R 1206 SMT RES
R46		W250 0R 1206 SMT RES

REF	YS #	Description
R47		W125 10K 5% 0805 SMT RES
R48		W125 10K 5% 0805 SMT RES
R49		W125 10K 5% 0805 SMT RES
R50		W125 10K 5% 0805 SMT RES
R51		W250 0R 1206 SMT RES
R52		W250 0R 1206 SMT RES
TP2		TEST POINT MINIATURE SMT
TP3		TEST POINT MINIATURE SMT
U1		AL8805 HE 36V 1A BUCK LED DRV SOT25
U2		CY8C32 PSOC SSOP48 16KB T&R
U3		AL8805 HE 36V 1A BUCK LED DRV SOT25
U4		AL8805 HE 36V 1A BUCK LED DRV SOT25
U5		AL8805 HE 36V 1A BUCK LED DRV SOT25
U6		MC78L05 REG 5V SMT SO8
W1		2X2 3 MM MICRO MATE-N-LOK SMT
W2		3 PIN HEADER 1.5MM HORZ MINI SMT
W3		10 CIR DUAL ROW HDR 0.05 SPC SMT
C1		__1U0 50V 10%CAP 1206 SMT CER
C2		__1U0 50V 10%CAP 1206 SMT CER
C3		__1U 25V 20%CAP 1206 SMT X7R
C4		__1U0 50V 10%CAP 1206 SMT CER
C5		100N 50V 5%CAP 0805 SMT X7R
C6		__1U0 50V 10%CAP 1206 SMT CER
C8		__1U0 50V 10%CAP 1206 SMT CER
C9		470N 50V 5%CAP 1206 SMT X7R
C10		470N 50V 5%CAP 1206 SMT X7R
C11		__1N 50V 5%CAP 0805 SMT NPO
C12		100N 50V 5%CAP 0805 SMT X7R
C13		__1U 25V 20%CAP 1206 SMT X7R
C14		__1U 25V 20%CAP 1206 SMT X7R
C16		100N 250V 10%CAP 1206 SMT X7R
C17		__1U 25V 20%CAP 1206 SMT X7R
C18		__1U0 50V 10%CAP 1206 SMT CER
C19		100N 50V 5%CAP 0805 SMT X7R
C20		100N 50V 5%CAP 0805 SMT X7R
C21		100N 50V 5%CAP 0805 SMT X7R
C23		__1U 25V 20%CAP 1206 SMT X7R
D1		MBRA340T3 40V 3A SHTKY 403D SMT
D3		MBRA340T3 40V 3A SHTKY 403D SMT
D4		MBRA340T3 40V 3A SHTKY 403D SMT
D5		MBRA340T3 40V 3A SHTKY 403D SMT
D6		MMBZ5227B 3V6 0W35 5% SMT ZEN
D7		BZX84B5V1 5V1 0W2 SOT-23 SMT ZEN
L3		_12UH COIL 4A 0R04 10MMSQ SMT
L4		_12UH COIL 4A 0R04 10MMSQ SMT
L6		_12UH COIL 4A 0R04 10MMSQ SMT
L7		_12UH COIL 4A 0R04 10MMSQ SMT
L8		220.0UH COIL SMT
LD1		0A7 RGBW LED EMITTER SMT
LD2		0A7 RGBW LED EMITTER SMT
LD3		0A7 RGBW LED EMITTER SMT
LD4		0A7 RGBW LED EMITTER SMT
Q1		FDFS6N754 MFET & SCHTKY SMT
R1		W250 0R 1206 SMT RES
R2		W500 0R1 1% 1206 SMT RES
R3		W250 0R 1206 SMT RES
R4		W500 0R1 1% 1206 SMT RES
R5		W250 0R 1206 SMT RES
R6		W500 0R1 1% 1206 SMT RES
R7		W250 0R 1206 SMT RES
R8		W100 1K0 1% 0805 SMT RES
R9		W125 10R0 1% 0805 SMT RES
R10		1W00 1K 5% 2512 SMT RES
R11		W125 10K 5% 0805 SMT RES
R12		W125 100K 5% 0805 SMT RES
R13		W250 1R 5% 1206 SMT RES
R14		W125 10K 5% 0805 SMT RES
R15		W250 100R 5% 1206 SMT RES
R16		W250 0R 1206 SMT RES
R17		W250 0R 1206 SMT RES
R18		W250 0R 1206 SMT RES
R19		W250 0R 1206 SMT RES
R21		W250 0R 1206 SMT RES
R22		W250 0R 1206 SMT RES
R23		W500 0R1 1% 1206 SMT RES
R24		W250 0R 1206 SMT RES
R25		W250 0R 1206 SMT RES
R26		W250 0R 1206 SMT RES
R27		W250 0R 1206 SMT RES
R28		W250 0R 1206 SMT RES

REF	YS #	Description
R29		W250 0R 1206 SMT RES
R30		W250 0R 1206 SMT RES
R31		W250 0R 1206 SMT RES
R32		W250 0R 1206 SMT RES
R33		W750 0R 1% 2010 SMT JMP
R34		W250 0R 1206 SMT RES
R35		_10K 5% THERMISTOR NTC 0603 SMT
R36		W250 0R 1206 SMT RES
R38		W250 0R 1206 SMT RES
R39		W250 0R 1206 SMT RES
R40		W250 0R 1206 SMT RES
R41		W250 0R 1206 SMT RES
R42		W250 0R 1206 SMT RES
R43		W250 0R 1206 SMT RES
R44		W250 0R 1206 SMT RES
R45		W250 0R 1206 SMT RES
R46		W250 0R 1206 SMT RES
C1		__1U0 50V 10%CAP 1206 SMT CER
C2		__1U0 50V 10%CAP 1206 SMT CER
C3		100N 50V 5%CAP 0805 SMT X7R
C4		__1U0 50V 10%CAP 1206 SMT CER
C5		100N 50V 5%CAP 0805 SMT X7R
C6		__1U0 50V 10%CAP 1206 SMT CER
C8		__1U0 50V 10%CAP 1206 SMT CER
C9		470N 50V 5%CAP 1206 SMT X7R
C10		470N 50V 5%CAP 0805 SMT NPO
C11		__1N 50V 5%CAP 0805 SMT NPO
C12		100N 50V 5%CAP 0805 SMT X7R
C13		__1U 25V 20%CAP 1206 SMT X7R
C14		__1U 25V 20%CAP 1206 SMT X7R
C16		100N 250V 10%CAP 1206 SMT X7R
C17		__1U 25V 20%CAP 1206 SMT X7R
C18		__1U0 50V 10%CAP 1206 SMT CER
C19		100N 50V 5%CAP 0805 SMT X7R
C20		100N 50V 5%CAP 0805 SMT X7R
C21		100N 50V 5%CAP 0805 SMT X7R
C23		__1U 25V 20%CAP 1206 SMT X7R
D1		MBRA340T3 40V 3A SHTKY 403D SMT
D3		MBRA340T3 40V 3A SHTKY 403D SMT
D4		MBRA340T3 40V 3A SHTKY 403D SMT
D5		MBRA340T3 40V 3A SHTKY 403D SMT
D6		MMBZ5227B 3V6 0W35 5% SMT ZEN
D7		BZX84B5V1 5V1 0W2 SOT-23 SMT ZEN
L3		_12UH COIL 4A 0R04 10MMSQ SMT
L4		_12UH COIL 4A 0R04 10MMSQ SMT
L6		_12UH COIL 4A 0R04 10MMSQ SMT
L7		_12UH COIL 4A 0R04 10MMSQ SMT
L8		220.0UH COIL SMT
LD1		0A7 RGBW LED EMITTER SMT
LD2		0A7 RGBW LED EMITTER SMT
LD3		0A7 RGBW LED EMITTER SMT
LD4		0A7 RGBW LED EMITTER SMT
Q1		FDFS6N754 MFET & SCHTKY SMT
R1		W250 0R 1206 SMT RES
R2		W500 0R1 1% 1206 SMT RES
R3		W250 0R 1206 SMT RES
R4		W500 0R1 1% 1206 SMT RES
R5		W250 0R 1206 SMT RES
R6		W500 0R1 1% 1206 SMT RES
R7		W250 0R 1206 SMT RES
R8		W100 1K0 1% 0805 SMT RES
R9		W125 10R0 1% 0805 SMT RES
R10		1W00 1K 5% 2512 SMT RES

REF	YS #	Description
R11		W125 10K 5% 0805 SMT RES
R12		W125 100K 5% 0805 SMT RES
R13		W250 1R 5% 1206 SMT RES
R14		W125 10K 5% 0805 SMT RES
R15		W250 100R 5% 1206 SMT RES
R16		W250 0R 1206 SMT RES
R17		W250 0R 1206 SMT RES
R18		W250 0R 1206 SMT RES
R19		W250 0R 1206 SMT RES
R21		W250 0R 1206 SMT RES
R22		W250 0R 1206 SMT RES
R23		W500 0R1 1% 1206 SMT RES
R24		W250 0R 1206 SMT RES
R25		W250 0R 1206 SMT RES
R26		W250 0R 1206 SMT RES
R27		W250 0R 1206 SMT RES
R28		W250 0R 1206 SMT RES
R29		W250 0R 1206 SMT RES
R30		W250 0R 1206 SMT RES
R31		W250 0R 1206 SMT RES
R32		W250 0R 1206 SMT RES
R33		W750 0R 1% 2010 SMT JMP
R34		W250 0R 1206 SMT RES
R35		_10K 5% THERMISTOR NTC 0603 SMT
R36		W250 0R 1206 SMT RES
R38		W250 0R 1206 SMT RES
R39		W250 0R 1206 SMT RES
R40		W250 0R 1206 SMT RES
R41		W250 0R 1206 SMT RES
R42		W250 0R 1206 SMT RES
R43		W250 0R 1206 SMT RES
R44		W250 0R 1206 SMT RES
R45		W250 0R 1206 SMT RES
R46		W250 0R 1206 SMT RES
C1		__1U0 50V 10%CAP 1206 SMT CER
C2		__1U0 50V 10%CAP 1206 SMT CER
C3		100N 50V 5%CAP 0805 SMT X7R
C4		__1U0 50V 10%CAP 1206 SMT CER
C5		100N 50V 5%CAP 0805 SMT X7R
C6		__1U0 50V 10%CAP 1206 SMT CER
C8		__1U0 50V 10%CAP 1206 SMT CER
C9		470N 50V 5%CAP 1206 SMT X7R
C10		470N 50V 5%CAP 1206 SMT X7R
C11		__1N 50V 5%CAP 0805 SMT NPO
C12		100N 50V 5%CAP 0805 SMT X7R
C13		__1U 25V 20%CAP 1206 SMT X7R
C14		__1U 25V 20%CAP 1206 SMT X7R
C16		100N 250V 10%CAP 1206 SMT X7R
C17		__1U 25V 20%CAP 1206 SMT X7R
C18		__1U0 50V 10%CAP 1206 SMT CER
C19		100N 50V 5%CAP 0805 SMT X7R
C20		100N 50V 5%CAP 0805 SMT X7R
C21		100N 50V 5%CAP 0805 SMT X7R
C23		__1U 25V 20%CAP 1206 SMT X7R
D1		MBRA340T3 40V 3A SHTKY 403D SMT
D3		MBRA340T3 40V 3A SHTKY 403D SMT
D4		MBRA340T3 40V 3A SHTKY 403D SMT
D5		MBRA340T3 40V 3A SHTKY 403D SMT
D6		MMBZ5227B 3V6 0W35 5% SMT ZEN
D7		BZX84B5V1 5V1 0W2 SOT-23 SMT ZEN
L3		_12UH COIL 4A 0R04 10MMSQ SMT
L4		_12UH COIL 4A 0R04 10MMSQ SMT
L6		_12UH COIL 4A 0R04 10MMSQ SMT
L7		_12UH COIL 4A 0R04 10MMSQ SMT
L8		220.0UH COIL SMT
LD1		0A7 RGBW LED EMITTER SMT
LD2		0A7 RGBW LED EMITTER SMT
LD3		0A7 RGBW LED EMITTER SMT
LD4		0A7 RGBW LED EMITTER SMT
Q1		FDFS6N754 MFET & SCHTKY SMT
R1		W250 0R 1206 SMT RES
R2		W500 0R1 1% 1206 SMT RES
R3		W250 0R 1206 SMT RES
R4		W500 0R1 1% 1206 SMT RES
R5		W250 0R 1206 SMT RES
R6		W500 0R1 1% 1206 SMT RES
R7		W250 0R 1206 SMT RES
R8		W100 1K0 1% 0805 SMT RES
R9		W125 10R0 1% 0805 SMT RES
R10		1W00 1K 5% 2512 SMT RES

M1487 05 Parts Reference List 9/23/2020

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
AI-ASS	M1487-59	LP-LED4X CNTRL BRD	D13		B160-E3 60V 1A0 SCH DO214AC SMT	R57		1W00 39R 5% 2512 SMT RES
C1		1U 25V 20%CAP 1206 SMT X7R	J1	3918	1/4" JCK PCB MT HORZ SLIM W/SCREW	R58		W125 10K 5% 0805 SMT RES
C2		1U 25V 20%CAP 1206 SMT X7R	J2	3922	XLR FEML PCB MT HORZ THIN SNAP-IN	R59		W125 10K 5% 0805 SMT RES
C3		100N 50V 5%CAP 0805 SMT X7R	J3	3923	XLR MALE PCB MT HORZ MTHOLE-V SNAP	R64		W125 10K 5% 0805 SMT RES
C4		100N 50V 5%CAP 0805 SMT X7R	J6	3922	XLR FEML PCB MT HORZ THIN SNAP-IN	R65		W125 470R 5% 0805 SMT RES
C5		330P 50V 5%CAP 0805 SMT NPO	J7	3923	XLR MALE PCB MT HORZ MTHOLE-V SNAP	R66		PTC RESETTABLE 0A2 0R8 1812 SMT
C6		680U 6V3 20%CAP 8X10 SMT ELE	L1		FERRITE BEAD 600R @100MHZ 0805 SMT	R67		W125 470R 5% 0805 SMT RES
C7		100N 50V 5%CAP 0805 SMT X7R	L3		FERRITE BEAD 1A5 26R SMT 1206	R69		2W00 680R 1% 2512 SMT RES
C8		100N 50V 5%CAP 0805 SMT X7R	L4		FERRITE BEAD 1A5 26R SMT 1206	R70		W125 4K7 5% 0805 SMT RES
C9		100N 50V 5%CAP 0805 SMT X7R	L5		FERRITE BEAD 1A5 26R SMT 1206	R71		W100 1K0 1% 0805 SMT RES
C12		47U 35V 20%CAP 6.3MM SMT ELE	L6		8.2UH COIL 1210 SMT	R72		W250 4K7 5% 1206 SMT RES
C16		1N 50V 5%CAP 0805 SMT NPO	L7		220UH COIL 10X10MM SMT	R73		W100 1K0 1% 0805 SMT RES
C17		1N 50V 5%CAP 0805 SMT NPO	LD1	6408	GRN 3MM LED 2V2 20MA DIFFUSD	R74		W100 1K0 1% 0805 SMT RES
C18		1N 50V 5%CAP 0805 SMT NPO	MIC1		MIC MEMS ANALOG OMNI M3125 SMT	R75		W125 20K 5% 0805 SMT RES
C19		1N 50V 5%CAP 0805 SMT NPO	P1	4969	ROT GRY 20MM 5BIT ENCODER P31	R76		W125 10K00 0.1% 0805 SMT RES
C20		1N 50V 5%CAP 0805 SMT NPO	P2	4969	ROT GRY 20MM 5BIT ENCODER P31	R77		W125 20K 5% 0805 SMT RES
C21		1N 50V 5%CAP 0805 SMT NPO	P3	4969	ROT GRY 20MM 5BIT ENCODER P31	R78		W100 1M0 1% 0805 SMT RES
C22		1N 50V 5%CAP 0805 SMT NPO	P4	4969	ROT GRY 20MM 5BIT ENCODER P31	R79		W100 100R 1% 0805 SMT RES
C23		1N 50V 5%CAP 0805 SMT NPO	P5	4969	ROT GRY 20MM 5BIT ENCODER P31	R80		2W00 680R 1% 2512 SMT RES
C24		100N 50V 5%CAP 0805 SMT X7R	P6	4526	10K TRIM POT 6MM TOP ADJ RAD	R81		W125 10K00 0.1% 0805 SMT RES
C25		1N5 50V 5%CAP 0805 SMT NPO	P7	4526	10K TRIM POT 6MM TOP ADJ RAD	R82		W100 2K0 1% 0805 SMT RES
C26		22P 50V 5%CAP 0805 SMT NPO	P8	4526	10K TRIM POT 6MM TOP ADJ RAD	R83		W100 1K0 1% 0805 SMT RES
C27		1U 25V 20%CAP 1206 SMT X7R	P9	4527	ROT GRY HOR 20MM 4BIT ENCODER P31	R86		W125 470R 5% 0805 SMT RES
C28		100N 50V 5%CAP 0805 SMT X7R	PCB1	M1487BLANK	2_OZ 2SD 98.46 SQIN 02PER LP-LED4X	R87		W125 470R 5% 0805 SMT RES
C29		1U 25V 20%CAP 1206 SMT X7R	Q2		SI1308EDL NCH MFET SOT323 SMT	R88		W125 470R 5% 0805 SMT RES
C30		100N 100V 10%CAP 1206 SMT X7R	Q3		MJB42C PNP D2PAK SMT TS	R89		W125 470R 5% 0805 SMT RES
C31		1N5 50V 5%CAP 0805 SMT NPO	Q4		MMBT3906LT1 PNP SOT-23 SMT T&R	R90		FUSE FAST 3A5 125V SMT 2410
C32		100N 50V 5%CAP 0805 SMT X7R	Q5		MMBT3904 NPN SOT-23 SMT	R91		FUSE FAST 3A5 125V SMT 2410
C33		1U 25V 20%CAP 1206 SMT X7R	R1		W250 2R4 5% 1206 SMT RES	R93		W100 1K0 1% 0805 SMT RES
C34		22P 50V 5%CAP 0805 SMT NPO	R2		W125 3K01 1% 0805 SMT RES	S1	4193	SPST SWITCH RA 12POS DIP NO PRINT
C35		22P 50V 5%CAP 0805 SMT NPO	R3		W125 1K21 1% 0805 SMT RES	SNL1	8370	1 MIL POLYIMIDE LABEL, 1" X .380"
C36		1N5 50V 5%CAP 0805 SMT NPO	R4		W500 3R3 5% 1210 SMT RES	TP1		TEST POINT MINIATURE SMT
C37		100N 100V 10%CAP 1206 SMT X7R	R5		47K 5% THERMISTOR NTC 0603 SMT	TP2		TEST POINT MINIATURE SMT
C38		33U 25V 20%CAP 6.3X5.5 SMT EL	R6		W125 1K5 5% 0805 SMT RES	TP3		TEST POINT MINIATURE SMT
C39		33U 25V 20%CAP 6.3X5.5 SMT EL	R7		W100 2K0 1% 0805 SMT RES	TP4		TEST POINT MINIATURE SMT
C40		33U 25V 20%CAP 6.3X5.5 SMT EL	R8		W100 2K0 1% 0805 SMT RES	TP5		TEST POINT MINIATURE SMT
C41		1N 50V 5%CAP 0805 SMT NPO	R10		1W00 1K8 5% 2512 SMT RES	U1		MK10DX128VLL7 72MHZ MCU IC LQFP100
C42		100N 50V 5%CAP 0805 SMT X7R	R11		W100 2K0 1% 0805 SMT RES	U2		MC33063ADR BUCK/BOOST INV IC SO8
C43		100N 50V 5%CAP 0805 SMT X7R	R14		W125 47R 5% 0805 SMT RES	U4		PROC4 BLE MODULE 14X19MM SMT
C44		100N 50V 5%CAP 0805 SMT X7R	R15		W125 47R 5% 0805 SMT RES	U5		TLV2474 QUAD OPAMP 2.8M SMT 14SOIC
C45		1U 25V 20%CAP 1206 SMT X7R	R16		W100 1K0 1% 0805 SMT RES	U6		SN74AHC138DR 3TO8 DECOD SMT IC
C46		1U 25V 20%CAP 1206 SMT X7R	R17		W100 1K0 1% 0805 SMT RES	U7		TLV2474 QUAD OPAMP 2.8M SMT 14SOIC
C47		100N 50V 5%CAP 0805 SMT X7R	R18		W100 1K0 1% 0805 SMT RES	U8		50K MAX5414EUD DPOT SMT IC
C48		1U 25V 20%CAP 1206 SMT X7R	R19		W100 2K0 1% 0805 SMT RES	U9		LM393D DUAL COMPARATOR SMT SO-8
C49		100N 50V 5%CAP 0805 SMT X7R	R20		W100 1K0 1% 0805 SMT RES	U10		QUAD TRI-STATE BUFFER SMT SOIC14
C50		100N 50V 5%CAP 0805 SMT X7R	R21		W100 1K0 1% 0805 SMT RES	U11		RS485/422 RCVR IC SMT SOT23-5
C51		100N 50V 5%CAP 0805 SMT X7R	R22		W100 1K0 1% 0805 SMT RES	U13		TLV2316 DUAL OPAMP LOWNOISE SMT SO8
C52		100N 50V 5%CAP 0805 SMT X7R	R23		W100 1K0 1% 0805 SMT RES	U14		TLV2316 DUAL OPAMP LOWNOISE SMT SO8
C53		100N 50V 5%CAP 0805 SMT X7R	R24		W100 1K0 1% 0805 SMT RES	U15		SN74LVC1G3157 SPDT SW SMT SOT236
C54		10U 16V 20%CAP 0805 SMT X5R	R25		W100 2K0 1% 0805 SMT RES	U16	7012	LP2950-33 LDRP TO92 FIXED 3V3 REG
C55		100U 25V 20%CAP 8X5.4 SMT ELE	R26		W100 1K0 1% 0805 SMT RES	W1	2327	6 CIR XH-HEADER 0.098IN
C56		100P 50V 10%CAP 0805 SMT NPO	R27		FUSE FAST 3A5 125V SMT 2410	W2		10 CIR DUAL ROW HDR 0.05 SPC SMT
C57		100P 50V 10%CAP 0805 SMT NPO	R28		FUSE FAST 3A5 125V SMT 2410	W3	2343	6 CIR XH-HEADER RA 0.098IN
C59		100N 50V 5%CAP 0805 SMT X7R	R29		W250 100R 5% 1206 SMT RES	W4	4194	2X2 3 MM MICRO MATE-N-LOK VRT
C60		1N 50V 5%CAP 0805 SMT NPO	R30		W100 1K0 1% 0805 SMT RES	W5	4194	2X2 3 MM MICRO MATE-N-LOK VRT
C61		100N 50V 5%CAP 0805 SMT X7R	R31		W100 2K0 1% 0805 SMT RES	W6	4194	2X2 3 MM MICRO MATE-N-LOK VRT
C62		10U 16V 20%CAP SMT ELC	R32		W100 2K0 1% 0805 SMT RES	W7	4194	2X2 3 MM MICRO MATE-N-LOK VRT
C63		10U 16V 20%CAP SMT ELC	R33		W250 619K 1% 1206 SMT RES	W9	4164	2 PIN .2 POWER PIN HEADER RA
C64		10U 16V 20%CAP SMT ELC	R34		W125 4K02 0.1% 0805 SMT RES	W10		10 CIR DUAL ROW HDR 0.05 SPC SMT
C65		10U 16V 10%CAP 0805 SMT X6S	R35		W250 619K 1% 1206 SMT RES			
C66		10U 16V 10%CAP 0805 SMT X6S	R36		W125 4K02 0.1% 0805 SMT RES			
C67		100N 50V 5%CAP 0805 SMT X7R	R38		W100 2K0 1% 0805 SMT RES			
C68		100N 50V 5%CAP 0805 SMT X7R	R39	6482	115R 20% 0W0 THERMISTOR PTC			
C69		100N 50V 5%CAP 0805 SMT X7R	R40		W100 2K0 1% 0805 SMT RES			
C70		100N 50V 5%CAP 0805 SMT X7R	R41		W250 100R 5% 1206 SMT RES			
C71		100N 50V 5%CAP 0805 SMT X7R	R42		W250 100R 5% 1206 SMT RES			
C72		10N 50V 10%CAP 0805 SMT X7R	R43		W250 100R 5% 1206 SMT RES			
C73		100N 50V 5%CAP 0805 SMT X7R	R44		W125 10K 5% 0805 SMT RES			
D1		B160-E3 60V 1A0 SCH DO214AC SMT	R45		W100 100R 1% 0805 SMT RES			
D2		SMAJ150CA 150V 400W BIDIR SMT	R46		W100 100R 1% 0805 SMT RES			
D3		BZX84C6V2 6V2 0W2 SOT-23 SMT ZEN	R47		W125 82K5 1% 0805 SMT RES			
D4		MMSZ15T1G 15V 0W5 5% SMT ZEN	R48		W125 82K5 1% 0805 SMT RES			
D5		B160-E3 60V 1A0 SCH DO214AC SMT	R49		W125 47K5 1% 0805 SMT RES			
D6		SMAZ10-13-F 10V0 1W0 10% SMT ZEN	R50		W125 10K 5% 0805 SMT RES			
D7		SMAJ150CA 150V 400W BIDIR SMT	R51		W250 100R 5% 1206 SMT RES			
D8		SMAJ150CA 150V 400W BIDIR SMT	R52		W250 100R 5% 1206 SMT RES			
D9		MMSZ15T1G 15V 0W5 5% SMT ZEN	R53		1W00 1K 5% 2512 SMT RES			
D10		MMSZ15T1G 15V 0W5 5% SMT ZEN	R54		1W00 1K 5% 2512 SMT RES			
D11		MMSZ15T1G 15V 0W5 5% SMT ZEN	R55		W250 100R 5% 1206 SMT RES			
D12		BAV21WS 200V 0A2 SOD323 SMT	R56		1W00 39R 5% 2512 SMT RES			

M1488 04 Parts Reference List 2024-08-19

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
AI-ASS	M1488-59	LP-LED2X CNTRL BRD	D14		B160-E3 60V 1A0 SCH DO214AC SMT	R57		1W00 39R 5% 2512 SMT RES
BLOK1		100N 50V 5%CAP 0805 SMT X7R	J1	3918	1/4" JCK PCB MT HORZ SLIM W/SCREW	R58		W125 10K 5% 0805 SMT RES
BLOK2		100N 50V 5%CAP 0805 SMT X7R	J2	3922	XLR FEML PCB MT HORZ THIN SNAP-IN	R59		W125 10K 5% 0805 SMT RES
BLOK3		100N 50V 5%CAP 0805 SMT X7R	J3	3923	XLR MALE PCB MT HORZ MTHOLE-V SNAP	R64		W125 10K 5% 0805 SMT RES
C1		__1U 25V 20%CAP 1206 SMT X7R	J6	3922	XLR FEML PCB MT HORZ THIN SNAP-IN	R66		PTC RESETTABLE 0A2 0R8 1812 SMT
C2		__1U 25V 20%CAP 1206 SMT X7R	J7	3923	XLR MALE PCB MT HORZ MTHOLE-V SNAP	R69		2W00 680R 1% 2512 SMT RES
C3		100N 50V 5%CAP 0805 SMT X7R	L1		FERRITE BEAD 600R @100MHZ 0805 SMT	R70		W125 4K7 5% 0805 SMT RES
C4		100N 50V 5%CAP 0805 SMT X7R	L3		FERRITE BEAD 1A5 26R SMT 1206	R71		W100 1K0 1% 0805 SMT RES
C5		330P 50V 5%CAP 0805 SMT NPO	L4		FERRITE BEAD 1A5 26R SMT 1206	R72		W250 4K7 5% 1206 SMT RES
C6		680U 6V3 20%CAP 8X10 SMT ELE	L5		FERRITE BEAD 1A5 26R SMT 1206	R73		W100 1K0 1% 0805 SMT RES
C7		100U 25V 20%CAP 8X5.4 SMT ELE	L6		__8.2UH COIL 1210 SMT	R74		W100 1K0 1% 0805 SMT RES
C10		470N 50V 5%CAP 1206 SMT X7R	L7		220UH COIL 10X10MM SMT	R75		W125 20K 5% 0805 SMT RES
C11		470N 50V 5%CAP 1206 SMT X7R	L8		220.0UH COIL SMT	R76		W125 10K00 0.1% 0805 SMT RES
C12		_47U 35V 20%CAP 6.3MM SMT ELE	LD1	6408	GRN 3MM LED 2V2 20MA DIFFUSD	R77		W125 20K 5% 0805 SMT RES
C16		__1N 50V 5%CAP 0805 SMT NPO	MIC1		MIC MEMS ANALOG OMNI M3125 SMT	R78		W100 1M0 1% 0805 SMT RES
C17		__1N 50V 5%CAP 0805 SMT NPO	P1	4969	ROT GRY 20MM 5BIT ENCODER P31	R79		W100 100R 1% 0805 SMT RES
C18		__1N 50V 5%CAP 0805 SMT NPO	P2	4969	ROT GRY 20MM 5BIT ENCODER P31	R80		2W00 680R 1% 2512 SMT RES
C19		__1N 50V 5%CAP 0805 SMT NPO	P5	4969	ROT GRY 20MM 5BIT ENCODER P31	R81		W125 10K00 0.1% 0805 SMT RES
C24		100N 50V 5%CAP 0805 SMT X7R	P9	4527	ROT GRY HOR 20MM 4BIT ENCODER P31	R86		W125 470R 5% 0805 SMT RES
C25		__1N5 50V 5%CAP 0805 SMT NPO	PCB1	M1488BLANK	1 OZ 2SD 85.94SQIN 02PER LP-LED2X	R87		W125 470R 5% 0805 SMT RES
C26		_22P 50V 5%CAP 0805 SMT NPO	Q1		DMN3067LW NCH MFET SOT323 SMT	R93		W100 1K0 1% 0805 SMT RES
C27		__1U 25V 20%CAP 1206 SMT X7R	Q2		DMN3067LW NCH MFET SOT323 SMT	S1	4193	SPST SWITCH RA 12POS DIP NO PRINT
C28		100N 50V 5%CAP 0805 SMT X7R	Q3		MJB42C PNP D2PAK SMT TS	S2	3425	DPDT PUSH SW PCMT BREAK B4 MAKE
C29		__1U 25V 20%CAP 1206 SMT X7R	Q4		MMBT3906LT1 PNP SOT-23 SMT T&R	SNL1	8370	1 MIL POLYIMIDE LABEL, 1" X .380"
C30		100N 100V 10%CAP 1206 SMT X7R	Q5		MMBT3904 NPN SOT-23 SMT	TP1		TEST POINT MINIATURE SMT
C31		__1N5 50V 5%CAP 0805 SMT NPO	R1		W250 0R27 5% 1206 SMT RES	TP2		TEST POINT MINIATURE SMT
C32		100N 50V 5%CAP 0805 SMT X7R	R2		W125 3K01 1% 0805 SMT RES	TP3		TEST POINT MINIATURE SMT
C33		__1U 25V 20%CAP 1206 SMT X7R	R3		W125 1K21 1% 0805 SMT RES	TP4		TEST POINT MINIATURE SMT
C34		_22P 50V 5%CAP 0805 SMT NPO	R4		W500 3R3 5% 1210 SMT RES	TP5		TEST POINT MINIATURE SMT
C35		_22P 50V 5%CAP 0805 SMT NPO	R5		_47K 5% THERMISTOR NTC 0603 SMT	TP6		TEST POINT MINIATURE SMT
C36		__1N5 50V 5%CAP 0805 SMT NPO	R6		W125 1K5 5% 0805 SMT RES	TP7		TEST POINT MINIATURE SMT
C37		100N 100V 10%CAP 1206 SMT X7R	R7		W100 2K0 1% 0805 SMT RES	U1		MK10DX128VLL7 72MHZ MCU IC LQFP100
C38		_33U 25V 20%CAP 6.3X5.5 SMT EL	R8		W100 2K0 1% 0805 SMT RES	U2		MC33063ADR BUCK/BOOST INV IC SO8
C39		_33U 25V 20%CAP 6.3X5.5 SMT EL	R9		W125 10R0 1% 0805 SMT RES	U5		TLV2474 QUAD OPAMP 2.8M SMT 14SOIC
C40		_33U 25V 20%CAP 6.3X5.5 SMT EL	R10		1W00 1K8 5% 2512 SMT RES	U6		SN74AHC138DR 3TO8 DECOD SMT IC
C41		__1N 50V 5%CAP 0805 SMT NPO	R11		W100 2K0 1% 0805 SMT RES	U7		TLV2474 QUAD OPAMP 2.8M SMT 14SOIC
C42		100N 50V 5%CAP 0805 SMT X7R	R12		W125 100K 5% 0805 SMT RES	U8		50K MAX5414EUD DPOT SMT IC
C43		100N 50V 5%CAP 0805 SMT X7R	R13		W250 1R 5% 1206 SMT RES	U9		LM393D DUAL COMPARATOR SMT SO-8
C44		100N 50V 5%CAP 0805 SMT X7R	R14		W125 47R 5% 0805 SMT RES	U10		QUAD TRI-STATE BUFFER SMT SOIC14
C45		__1U 25V 20%CAP 1206 SMT X7R	R15		W125 47R 5% 0805 SMT RES	U11		RS485/422 RCVR IC SMT SOT23-5
C46		__1U 25V 20%CAP 1206 SMT X7R	R16		W100 1K0 1% 0805 SMT RES	U13		TLV2316 DUAL OPAMP LOWNOISE SMT SO8
C47		100N 50V 5%CAP 0805 SMT X7R	R17		W100 1K0 1% 0805 SMT RES	U14		TLV2316 DUAL OPAMP LOWNOISE SMT SO8
C48		__1U 25V 20%CAP 1206 SMT X7R	R18		W100 1K0 1% 0805 SMT RES	U15		SN74LVC1G3157 SPDT SW SMT SOT236
C49		100N 50V 5%CAP 0805 SMT X7R	R19		W100 2K0 1% 0805 SMT RES	U16	7012	LP2950-33 LDRP TO92 FIXED 3V3 REG
C50		100N 50V 5%CAP 0805 SMT X7R	R20		W100 1K0 1% 0805 SMT RES	U17		PROC4 BLE MODULE 14X19MM SMT
C51		100N 50V 5%CAP 0805 SMT X7R	R21		W125 47R 5% 0805 SMT RES	W1	2327	6 CIR XH-HEADER 0.098IN
C52		100N 50V 5%CAP 0805 SMT X7R	R22		W100 1K0 1% 0805 SMT RES	W2		10 CIR DUAL ROW HDR 0.05 SPC SMT
C53		100N 50V 5%CAP 0805 SMT X7R	R23		W100 1K0 1% 0805 SMT RES	W3	2343	6 CIR XH-HEADER RA 0.098IN
C54		_10U 16V 20%CAP 0805 SMT X5R	R25		W125 470R 5% 0805 SMT RES	W4	4194	2X2 3 MM MICRO MATE-N-LOK VRT
C55		_10U 16V 20%CAP 0805 SMT X5R	R26		W125 470R 5% 0805 SMT RES	W5	4194	2X2 3 MM MICRO MATE-N-LOK VRT
C56		100P 50V 10%CAP 0805 SMT NPO	R27		FUSE FAST 3A5 125V SMT 2410	W6	2337	4 CIR XH-HEADER 0.098IN
C57		100P 50V 10%CAP 0805 SMT NPO	R28		FUSE FAST 3A5 125V SMT 2410	W7	2337	4 CIR XH-HEADER 0.098IN
C59		100N 50V 5%CAP 0805 SMT X7R	R29		W250 100R 5% 1206 SMT RES	W9	4164	PIN & SOCKET 2C CONNECTOR ASSEMBLY
C60		__1N 50V 5%CAP 0805 SMT NPO	R30		W100 1K0 1% 0805 SMT RES	W10		10 CIR DUAL ROW HDR 0.05 SPC SMT
C61		100N 50V 5%CAP 0805 SMT X7R	R31		W100 2K0 1% 0805 SMT RES	W11	2396	HEADER: 2 CIRCUIT PH CONNECTOR
C62		_10U 16V 20%CAP SMT ELC	R32		W100 2K0 1% 0805 SMT RES			
C63		_10U 16V 20%CAP SMT ELC	R33		W250 619K 1% 1206 SMT RES			
C64		_10U 16V 20%CAP SMT ELC	R34		W125 4K02 0.1% 0805 SMT RES			
C65		_10U 16V 10%CAP 0805 SMT X6S	R35		W250 619K 1% 1206 SMT RES			
C66		_10U 16V 10%CAP 0805 SMT X6S	R36		W125 4K02 0.1% 0805 SMT RES			
C67		100N 50V 5%CAP 0805 SMT X7R	R37		PTC RESETTABLE 0A2 0R8 1812 SMT			
C68		100N 50V 5%CAP 0805 SMT X7R	R38		W100 2K0 1% 0805 SMT RES			
C69		100N 50V 5%CAP 0805 SMT X7R	R39		115R 20% 0W0 THERMISTOR PTC			
C70		100N 50V 5%CAP 0805 SMT X7R	R40		W100 2K0 1% 0805 SMT RES			
C71		100N 50V 5%CAP 0805 SMT X7R	R41		W250 100R 5% 1206 SMT RES			
C72		_10N 50V 10%CAP 0805 SMT X7R	R42		W250 100R 5% 1206 SMT RES			
C73		100N 50V 5%CAP 0805 SMT X7R	R43		W250 100R 5% 1206 SMT RES			
D1		B160-E3 60V 1A0 SCH DO214AC SMT	R44		W125 10K 5% 0805 SMT RES			
D2		SMAJ150CA 150V 400W BIDIR SMT	R45		W100 100R 1% 0805 SMT RES			
D3		BZX84C6V2 6V2 0W2 SOT-23 SMT ZEN	R46		W100 100R 1% 0805 SMT RES			
D4		MMSZ15T1G 15V 0W5 5% SMT ZEN	R47		W125 82K5 1% 0805 SMT RES			
D5		B160-E3 60V 1A0 SCH DO214AC SMT	R48		W125 82K5 1% 0805 SMT RES			
D6		SMAZ10-13-F 10V0 1W0 10% SMT ZEN	R49		W125 47K5 1% 0805 SMT RES			
D7		SMAJ150CA 150V 400W BIDIR SMT	R50		W125 10K 5% 0805 SMT RES			
D8		SMAJ150CA 150V 400W BIDIR SMT	R51		W250 100R 5% 1206 SMT RES			
D9		MMSZ15T1G 15V 0W5 5% SMT ZEN	R52		W250 100R 5% 1206 SMT RES			
D10		MMSZ15T1G 15V 0W5 5% SMT ZEN	R53		1W00 1K 5% 2512 SMT RES			
D11		MMSZ15T1G 15V 0W5 5% SMT ZEN	R54		1W00 1K 5% 2512 SMT RES			
D12		BAV21WS 200V 0A2 SOD323 SMT	R55		W250 100R 5% 1206 SMT RES			
D13		B160-E3 60V 1A0 SCH DO214AC SMT	R56		1W00 39R 5% 2512 SMT RES			

M1632 Parts Reference List 11/1/2018

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
AI-ASS	M1632-59	M1632 AMP CONTROL FOR M1637 PCB	R35		W125 22K1 1% 0805 SMT RES			
C1		100N 50V 5%CAP 0805 SMT X7R	R36		W125 10R0 1% 0805 SMT RES			
C3		_10U0 16V 10%CAP 1206 SMT X7R	R37		W125 30K 0.5% 0805 SMT RES			
C4		100N 50V 5%CAP 0805 SMT X7R	R38		W100 1M0 1% 0805 SMT RES			
C5		_47U 35V 20%CAP 6.3MM SMT ELE	R39		W100 2K0 1% 0805 SMT RES			
C6		100N 50V 5%CAP 0805 SMT X7R	R40		W125 39K2 1% 0805 SMT RES			
C7		__4U7 50V 10%CAP 1210 SMT CER	R41		W125 6K20 1% 0805 SMT RES			
C8		220N 50V 10%CAP 1206 SMT X7R	R42		W100 20K0 1% 0805 SMT RES			
C9		100N 50V 5%CAP 0805 SMT X7R	R43		W125 33K 5% 0805 SMT RES			
C10		470N 50V 5%CAP 1206 SMT X7R	R44		W250 1M0 1% 1206 SMT RES			
C11		__4N7 50V 10%CAP 0805 SMT X7R	R45		W125 10K2 1% 0805 SMT RES			
C12		_82N 100V 10%CAP 0805 SMT X7R	R46		W100 1M0 1% 0805 SMT RES			
C13		470N 50V 5%CAP 1206 SMT X7R	R47		W250 1M0 1% 1206 SMT RES			
C14		100N 50V 5%CAP 0805 SMT X7R	R48		W125 22K1 1% 0805 SMT RES			
C15		_47U 35V 20%CAP 6.3MM SMT ELE	R49		W125 33K 5% 0805 SMT RES			
C16		__5N6 50V 5%CAP 0805 SMT C0G	R50		W100 1M0 1% 0805 SMT RES			
C17		_10U0 16V 10%CAP 1206 SMT X7R	R51		W100 100K0 1% 0805 SMT RES			
C18		_47P 50V 5%CAP 0805 SMT NPO	R52		W100 1K0 1% 0805 SMT RES			
C19		_68P 50V 5%CAP 0805 SMT C0G	R53		W100 10K0 1% 0805 SMT RES			
C20		100N 50V 5%CAP 0805 SMT X7R	R55		W100 1K0 1% 0805 SMT RES			
C21		__1N 50V 5%CAP 0805 SMT NPO	R56		W100 18K2 1% 0805 SMT RES			
C22		_33P 100V 5%CAP 0603 SMT C0G	R57		W125 22K1 1% 0805 SMT RES			
C23		220P 100V 10%CAP 0805 SMT X7R	R58		W125 6K20 1% 0805 SMT RES			
C25		100U 25V 20%CAP 8X5.4 SMT ELE	R59		W100 1M0 1% 0805 SMT RES			
C27		100N 50V 5%CAP 0805 SMT X7R	R61		W100 4K75 1% 0805 SMT RES			
C29		270P 50V 5%CAP 0805 SMT NPO	R62		W125 120K 1% 0805 SMT RES			
C31		__4U7 50V 10%CAP 1210 SMT CER	R63		W100 10K0 1% 0805 SMT RES			
C32		100N 50V 5%CAP 0805 SMT X7R	R65		W250 10R 5% 1206 SMT RES			
C33		__1N 50V 5%CAP 0805 SMT NPO	R66		W100 10K0 1% 0805 SMT RES			
C35		__2N2 50V 10%CAP 0805 SMT X7R	R67		W100 10K0 1% 0805 SMT RES			
C36		100P 50V 10%CAP 0805 SMT NPO	R68		W125 30K 0.5% 0805 SMT RES			
C47		100N 50V 5%CAP 0805 SMT X7R	R69		W125 5K23 1% 0805 SMT RES			
D1		CDSF4148 75V 0A15 1005 SMT	R70		W100 15K0 1% 0805 SMT RES			
D2		CDSF4148 75V 0A15 1005 SMT	R72		W100 2K21 1% 0805 SMT RES			
D4		B160-13-F 60V 1A0 SCH DO214AC SMT	R81		W125 47R5 1% 0805 SMT RES			
D5		B0540 SOD123 SMT SCHTKY	U1		UCC25600 RES MODE CTRL SMT SO8			
D7		CDSF4148 75V 0A15 1005 SMT	U2		LM339M QUAD SS COMP SMT SO-14			
D21		CDSF4148 75V 0A15 1005 SMT	U3		MIC4424YM DUAL MOSFET DRVR SMT S08			
HD1		08 CIR DUAL ROW HDR HT 0.1 RA SMT	U4		NCP1605A HIV PFC CNTRL SMT IC SO16			
HD2		08 CIR DUAL ROW HDR HT 0.1 RA SMT	U5		LM358D DUAL SS OPAMP SMT SO-8			
HD3		04 CIR DUAL ROW HDR HT 0.1 RA SMT	U6		LM393D DUAL COMPARATOR SMT SO-8			
PCB	M1632BLANK	2_OZ 2SD 46.6 SQIN 08PER PFC PS						
Q1		MMBT5401 PNP SOT-23 SMT						
Q4		FDT3612 NCH MFET SOT-223 SMT						
Q5		2N7002 NCH FET SOT-23 SMT T&R						
Q6		TL431A 3 TERM ADJ VREG SMT SOT-23						
Q13		2N7002 NCH FET SOT-23 SMT T&R						
R1		W125 1K27 1% 0805 SMT RES						
R2		W125 16K9 1% 0805 SMT RES						
R3		W125 1K21 1% 0805 SMT RES						
R4		W100 20K0 1% 0805 SMT RES						
R5		W125 26K7 1% 0805 SMT RES						
R6		W125 31K6 0.1% 0805 SMT RES						
R7		W250 1M0 1% 1206 SMT RES						
R8		W100 27K4 1% 0805 SMT RES						
R9		W100 10K0 1% 0805 SMT RES						
R10		W100 150R 5% 0805 SMT RES						
R11		W100 20K0 1% 0805 SMT RES						
R12		W125 22K1 1% 0805 SMT RES						
R13		W125 17K8 1% 0805 SMT RES						
R14		W125 1K800 0.1% 0805 SMT RES						
R15		W250 1M0 1% 1206 SMT RES						
R16		W250 1M0 1% 1206 SMT RES						
R17		W250 1M0 1% 1206 SMT RES						
R18		W250 1M0 1% 1206 SMT RES						
R19		W125 6K20 1% 0805 SMT RES						
R20		W125 17K8 1% 0805 SMT RES						
R21		W250 1M0 1% 1206 SMT RES						
R22		W125 5K6 1% 0805 SMT RES						
R23		W100 10K0 1% 0805 SMT RES						
R25		W100 274K 1% 0805 SMT RES						
R26		W125 24K9 1% 0805 SMT RES						
R27		W125 49K9 1% 0805 SMT RES						
R28		W100 274K 1% 0805 SMT RES						
R29		W100 10K0 1% 0805 SMT RES						
R30		W250 1M0 1% 1206 SMT RES						
R31		W100 4K99 1% 0805 SMT RES						
R32		W100 4K99 1% 0805 SMT RES						
R33		W250 22R 5% 1206 SMT RES						
R34		W125 23K2 1% 0805 SMT RES						

M1486 Parts Reference List 11/1/2018

REF	YS #	Description
C1		__1U0 50V 10%CAP 1206 SMT CER
C2		__1U0 50V 10%CAP 1206 SMT CER
C3		100N 25V 10%CAP 0805 SMT X7R
C4		__1U0 50V 10%CAP 1206 SMT CER
C5		100N 25V 10%CAP 0805 SMT X7R
C6		__1U0 50V 10%CAP 1206 SMT CER
C8		__1U0 50V 10%CAP 1206 SMT CER
C9		470N 50V 5%CAP 1206 SMT X7R
C10		470N 50V 5%CAP 1206 SMT X7R
C11		__1N 50V 5%CAP 0805 SMT NPO
C12		100N 25V 10%CAP 0805 SMT X7R
C13		__1U 25V 20%CAP 1206 SMT X7R
C14		__1U 25V 20%CAP 1206 SMT X7R
C16		100N 250V 10%CAP 1206 SMT X7R
C17		__1U 25V 20%CAP 1206 SMT X7R
C18		__1U0 50V 10%CAP 1206 SMT CER
C19		100N 25V 10%CAP 0805 SMT X7R
C20		100N 25V 10%CAP 0805 SMT X7R
C21		100N 25V 10%CAP 0805 SMT X7R
C23		__1U 25V 20%CAP 1206 SMT X7R
D1		MBRA340T3 40V 3A SHTKY 403D SMT
D3		MBRA340T3 40V 3A SHTKY 403D SMT
D4		MBRA340T3 40V 3A SHTKY 403D SMT
D5		MBRA340T3 40V 3A SHTKY 403D SMT
D6		MMBZ5227B 3V6 0W35 5% SMT ZEN
D7		BZX84B5V1 5V1 0W2 SOT-23 SMT ZEN
L3		120UH COIL 0R4 10MMSQ SMT
L4		120UH COIL 0R4 10MMSQ SMT
L6		120UH COIL 0R4 10MMSQ SMT
L7		120UH COIL 0R4 10MMSQ SMT
L8		220.0UH COIL SMT
LD1		0A7 RGBW LED EMITTER SMT
LD2		0A7 RGBW LED EMITTER SMT
LD3		0A7 RGBW LED EMITTER SMT
LD4		0A7 RGBW LED EMITTER SMT
Q1		FDFS6N754 MFET & SCHTKY SMT
R1		W250 0R 1206 SMT RES
R2		W125 0R06 1% 1206 SMT RES
R3		W250 0R 1206 SMT RES
R4		W125 0R06 1% 1206 SMT RES
R5		W250 0R 1206 SMT RES
R6		W125 0R06 1% 1206 SMT RES
R7		W250 0R 1206 SMT RES
R8		W100 1K0 1% 0805 SMT RES
R9		W125 10R0 1% 0805 SMT RES
R10		1W00 1K 5% 2512 SMT RES
R11		W125 10K 5% 0805 SMT RES
R12		W125 100K 5% 0805 SMT RES
R13		W250 1R 5% 1206 SMT RES
R14		W125 10K 5% 0805 SMT RES
R15		W250 100R 5% 1206 SMT RES
R16		W250 0R 1206 SMT RES
R17		W250 0R 1206 SMT RES
R18		W250 0R 1206 SMT RES
R19		W250 0R 1206 SMT RES
R21		W250 0R 1206 SMT RES
R22		W250 0R 1206 SMT RES
R23		W125 0R06 1% 1206 SMT RES
R24		W250 0R 1206 SMT RES
R25		W250 0R 1206 SMT RES
R26		W250 0R 1206 SMT RES
R27		W250 0R 1206 SMT RES
R28		W250 0R 1206 SMT RES
R29		W250 0R 1206 SMT RES
R32		W250 0R 1206 SMT RES
R33		W750 0R 1% 2010 SMT JMP
R34		W250 0R 1206 SMT RES
R35		_10K 5% THERMISTOR NTC 0603 SMT
R36		W250 0R 1206 SMT RES
R38		W250 0R 1206 SMT RES
R39		W250 0R 1206 SMT RES
R40		W250 0R 1206 SMT RES
R41		W250 0R 1206 SMT RES
R42		W250 0R 1206 SMT RES
R43		W250 0R 1206 SMT RES
R44		W250 0R 1206 SMT RES
R45		W250 0R 1206 SMT RES
R46		W250 0R 1206 SMT RES

REF	YS #	Description
R47		W125 10K 5% 0805 SMT RES
R48		W125 10K 5% 0805 SMT RES
R49		W125 10K 5% 0805 SMT RES
R50		W125 10K 5% 0805 SMT RES
R51		W250 0R 1206 SMT RES
R52		W250 0R 1206 SMT RES
TP2		TEST POINT MINIATURE SMT
TP3		TEST POINT MINIATURE SMT
U1		AL8805 HE 36V 1A BUCK LED DRV SOT25
U2		CY8C32 PSOC SSOP48 16KB T&R
U3		AL8805 HE 36V 1A BUCK LED DRV SOT25
U4		AL8805 HE 36V 1A BUCK LED DRV SOT25
U5		AL8805 HE 36V 1A BUCK LED DRV SOT25
U6		MC78L05 REG 5V SMT SO8
W1		2X2 3 MM MICRO MATE-N-LOK SMT
W2		3 PIN HEADER 1.5MM HORZ MINI SMT
W3		10 CIR DUAL ROW HDR 0.05 SPC SMT
C1		__1U0 50V 10%CAP 1206 SMT CER
C2		__1U0 50V 10%CAP 1206 SMT CER
C3		__1U 25V 20%CAP 1206 SMT X7R
C4		__1U0 50V 10%CAP 1206 SMT CER
C5		100N 50V 5%CAP 0805 SMT X7R
C6		__1U0 50V 10%CAP 1206 SMT CER
C8		__1U0 50V 10%CAP 1206 SMT CER
C9		470N 50V 5%CAP 1206 SMT X7R
C10		470N 50V 5%CAP 1206 SMT X7R
C11		__1N 50V 5%CAP 0805 SMT NPO
C12		100N 50V 5%CAP 0805 SMT X7R
C13		__1U 25V 20%CAP 1206 SMT X7R
C14		__1U 25V 20%CAP 1206 SMT X7R
C16		100N 250V 10%CAP 1206 SMT X7R
C17		__1U 25V 20%CAP 1206 SMT X7R
C18		__1U0 50V 10%CAP 1206 SMT CER
C19		100N 50V 5%CAP 0805 SMT X7R
C20		100N 50V 5%CAP 0805 SMT X7R
C21		100N 50V 5%CAP 0805 SMT X7R
C23		__1U 25V 20%CAP 1206 SMT X7R
D1		MBRA340T3 40V 3A SHTKY 403D SMT
D3		MBRA340T3 40V 3A SHTKY 403D SMT
D4		MBRA340T3 40V 3A SHTKY 403D SMT
D5		MBRA340T3 40V 3A SHTKY 403D SMT
D6		MMBZ5227B 3V6 0W35 5% SMT ZEN
D7		BZX84B5V1 5V1 0W2 SOT-23 SMT ZEN
L3		_12UH COIL 4A 0R04 10MMSQ SMT
L4		_12UH COIL 4A 0R04 10MMSQ SMT
L6		_12UH COIL 4A 0R04 10MMSQ SMT
L7		_12UH COIL 4A 0R04 10MMSQ SMT
L8		220.0UH COIL SMT
LD1		0A7 RGBW LED EMITTER SMT
LD2		0A7 RGBW LED EMITTER SMT
LD3		0A7 RGBW LED EMITTER SMT
LD4		0A7 RGBW LED EMITTER SMT
Q1		FDFS6N754 MFET & SCHTKY SMT
R1		W250 0R 1206 SMT RES
R2		W500 0R1 1% 1206 SMT RES
R3		W250 0R 1206 SMT RES
R4		W500 0R1 1% 1206 SMT RES
R5		W250 0R 1206 SMT RES
R6		W500 0R1 1% 1206 SMT RES
R7		W250 0R 1206 SMT RES
R8		W100 1K0 1% 0805 SMT RES
R9		W125 10R0 1% 0805 SMT RES
R10		1W00 1K 5% 2512 SMT RES
R11		W125 10K 5% 0805 SMT RES
R12		W125 100K 5% 0805 SMT RES
R13		W250 1R 5% 1206 SMT RES
R14		W125 10K 5% 0805 SMT RES
R15		W250 100R 5% 1206 SMT RES
R16		W250 0R 1206 SMT RES
R17		W250 0R 1206 SMT RES
R18		W250 0R 1206 SMT RES
R19		W250 0R 1206 SMT RES
R21		W250 0R 1206 SMT RES
R22		W250 0R 1206 SMT RES
R23		W500 0R1 1% 1206 SMT RES
R24		W250 0R 1206 SMT RES
R25		W250 0R 1206 SMT RES
R26		W250 0R 1206 SMT RES
R27		W250 0R 1206 SMT RES
R28		W250 0R 1206 SMT RES

REF	YS #	Description
R29		W250 0R 1206 SMT RES
R30		W250 0R 1206 SMT RES
R31		W250 0R 1206 SMT RES
R32		W250 0R 1206 SMT RES
R33		W750 0R 1% 2010 SMT JMP
R34		W250 0R 1206 SMT RES
R35		_10K 5% THERMISTOR NTC 0603 SMT
R36		W250 0R 1206 SMT RES
R38		W250 0R 1206 SMT RES
R39		W250 0R 1206 SMT RES
R40		W250 0R 1206 SMT RES
R41		W250 0R 1206 SMT RES
R42		W250 0R 1206 SMT RES
R43		W250 0R 1206 SMT RES
R44		W250 0R 1206 SMT RES
R45		W250 0R 1206 SMT RES
R46		W250 0R 1206 SMT RES
C1		__1U0 50V 10%CAP 1206 SMT CER
C2		__1U0 50V 10%CAP 1206 SMT CER
C3		100N 50V 5%CAP 0805 SMT X7R
C4		__1U0 50V 10%CAP 1206 SMT CER
C5		100N 50V 5%CAP 0805 SMT X7R
C6		__1U0 50V 10%CAP 1206 SMT CER
C8		__1U0 50V 10%CAP 1206 SMT CER
C9		470N 50V 5%CAP 1206 SMT X7R
C10		470N 50V 5%CAP 0805 SMT NPO
C11		__1N 50V 5%CAP 0805 SMT NPO
C12		100N 50V 5%CAP 0805 SMT X7R
C13		__1U 25V 20%CAP 1206 SMT X7R
C14		__1U 25V 20%CAP 1206 SMT X7R
C16		100N 250V 10%CAP 1206 SMT X7R
C17		__1U 25V 20%CAP 1206 SMT X7R
C18		__1U0 50V 10%CAP 1206 SMT CER
C19		100N 50V 5%CAP 0805 SMT X7R
C20		100N 50V 5%CAP 0805 SMT X7R
C21		100N 50V 5%CAP 0805 SMT X7R
C23		__1U 25V 20%CAP 1206 SMT X7R
D1		MBRA340T3 40V 3A SHTKY 403D SMT
D3		MBRA340T3 40V 3A SHTKY 403D SMT
D4		MBRA340T3 40V 3A SHTKY 403D SMT
D5		MBRA340T3 40V 3A SHTKY 403D SMT
D6		MMBZ5227B 3V6 0W35 5% SMT ZEN
D7		BZX84B5V1 5V1 0W2 SOT-23 SMT ZEN
L3		_12UH COIL 4A 0R04 10MMSQ SMT
L4		_12UH COIL 4A 0R04 10MMSQ SMT
L6		_12UH COIL 4A 0R04 10MMSQ SMT
L7		_12UH COIL 4A 0R04 10MMSQ SMT
L8		220.0UH COIL SMT
LD1		0A7 RGBW LED EMITTER SMT
LD2		0A7 RGBW LED EMITTER SMT
LD3		0A7 RGBW LED EMITTER SMT
LD4		0A7 RGBW LED EMITTER SMT
Q1		FDFS6N754 MFET & SCHTKY SMT
R1		W250 0R 1206 SMT RES
R2		W500 0R1 1% 1206 SMT RES
R3		W250 0R 1206 SMT RES
R4		W500 0R1 1% 1206 SMT RES
R5		W250 0R 1206 SMT RES
R6		W500 0R1 1% 1206 SMT RES
R7		W250 0R 1206 SMT RES
R8		W100 1K0 1% 0805 SMT RES
R9		W125 10R0 1% 0805 SMT RES
R10		1W00 1K 5% 2512 SMT RES

REF	YS #	Description
R11		W125 10K 5% 0805 SMT RES
R12		W125 100K 5% 0805 SMT RES
R13		W250 1R 5% 1206 SMT RES
R14		W125 10K 5% 0805 SMT RES
R15		W250 100R 5% 1206 SMT RES
R16		W250 0R 1206 SMT RES
R17		W250 0R 1206 SMT RES
R18		W250 0R 1206 SMT RES
R19		W250 0R 1206 SMT RES
R21		W250 0R 1206 SMT RES
R22		W250 0R 1206 SMT RES
R23		W500 0R1 1% 1206 SMT RES
R24		W250 0R 1206 SMT RES
R25		W250 0R 1206 SMT RES
R26		W250 0R 1206 SMT RES
R27		W250 0R 1206 SMT RES
R28		W250 0R 1206 SMT RES
R29		W250 0R 1206 SMT RES
R30		W250 0R 1206 SMT RES
R31		W250 0R 1206 SMT RES
R32		W250 0R 1206 SMT RES
R33		W750 0R 1% 2010 SMT JMP
R34		W250 0R 1206 SMT RES
R35		_10K 5% THERMISTOR NTC 0603 SMT
R36		W250 0R 1206 SMT RES
R38		W250 0R 1206 SMT RES
R39		W250 0R 1206 SMT RES
R40		W250 0R 1206 SMT RES
R41		W250 0R 1206 SMT RES
R42		W250 0R 1206 SMT RES
R43		W250 0R 1206 SMT RES
R44		W250 0R 1206 SMT RES
R45		W250 0R 1206 SMT RES
R46		W250 0R 1206 SMT RES
C1		__1U0 50V 10%CAP 1206 SMT CER
C2		__1U0 50V 10%CAP 1206 SMT CER
C3		100N 50V 5%CAP 0805 SMT X7R
C4		__1U0 50V 10%CAP 1206 SMT CER
C5		100N 50V 5%CAP 0805 SMT X7R
C6		__1U0 50V 10%CAP 1206 SMT CER
C8		__1U0 50V 10%CAP 1206 SMT CER
C9		470N 50V 5%CAP 1206 SMT X7R
C10		470N 50V 5%CAP 1206 SMT X7R
C11		__1N 50V 5%CAP 0805 SMT NPO
C12		100N 50V 5%CAP 0805 SMT X7R
C13		__1U 25V 20%CAP 1206 SMT X7R
C14		__1U 25V 20%CAP 1206 SMT X7R
C16		100N 250V 10%CAP 1206 SMT X7R
C17		__1U 25V 20%CAP 1206 SMT X7R
C18		__1U0 50V 10%CAP 1206 SMT CER
C19		100N 50V 5%CAP 0805 SMT X7R
C20		100N 50V 5%CAP 0805 SMT X7R
C21		100N 50V 5%CAP 0805 SMT X7R
C23		__1U 25V 20%CAP 1206 SMT X7R
D1		MBRA340T3 40V 3A SHTKY 403D SMT
D3		MBRA340T3 40V 3A SHTKY 403D SMT
D4		MBRA340T3 40V 3A SHTKY 403D SMT
D5		MBRA340T3 40V 3A SHTKY 403D SMT
D6		MMBZ5227B 3V6 0W35 5% SMT ZEN
D7		BZX84B5V1 5V1 0W2 SOT-23 SMT ZEN
L3		_12UH COIL 4A 0R04 10MMSQ SMT
L4		_12UH COIL 4A 0R04 10MMSQ SMT
L6		_12UH COIL 4A 0R04 10MMSQ SMT
L7		_12UH COIL 4A 0R04 10MMSQ SMT
L8		220.0UH COIL SMT
LD1		0A7 RGBW LED EMITTER SMT
LD2		0A7 RGBW LED EMITTER SMT
LD3		0A7 RGBW LED EMITTER SMT
LD4		0A7 RGBW LED EMITTER SMT
Q1		FDFS6N754 MFET & SCHTKY SMT
R1		W250 0R 1206 SMT RES
R2		W500 0R1 1% 1206 SMT RES
R3		W250 0R 1206 SMT RES
R4		W500 0R1 1% 1206 SMT RES
R5		W250 0R 1206 SMT RES
R6		W500 0R1 1% 1206 SMT RES
R7		W250 0R 1206 SMT RES
R8		W100 1K0 1% 0805 SMT RES
R9		W125 10R0 1% 0805 SMT RES
R10		1W00 1K 5% 2512 SMT RES

M1637 Parts Reference List 11/1/2018

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
AI-ASS	M1637-59	M1637 PFC 300W@24V SWITCHING PS	R157		W125 3K32 1% 0805 SMT RES			
C1	5193	470N 305V 10%CAP BLK RAD POLY FLM	R263		W250 10R 5% 1206 SMT RES			
C2	5218	_10N 1600VDC 5%CAP BLK RAD POLY FLM	SCR1		4-40X3/8 PAN PH TAPTITE BO&W			
C3	5193	470N 305V 10%CAP BLK RAD POLY FLM	SCR2		4-40X3/8 PAN PH TAPTITE BO&W			
C4	5193	470N 305V 10%CAP BLK RAD POLY FLM	SCR3		4-40X3/8 PAN PH TAPTITE BO&W			
C5	5193	470N 305V 10%CAP BLK RAD POLY FLM	T1		XFMR O/P 300W +/-24V PQ43230			
C6	5531	150U 450V 20%CAP BLK 25X32MM ELS	T3		XF3955 GATE DRIVE XFMR SMT			
C7	5218	_10N 1600VDC 5%CAP BLK RAD POLY FLM	U202		LNK306G OFFLINE SWITCH SMT SMD8B			
C8		__4N7 50V 5%CAP 1206 SMT NPO	W1	4225	2 PIN LOCK HEADER .312" VERT TIN			
C9	5842	_27N 400V 5%CAP BLK RAD POLY FLM	W2	2396	2 CIR PH-HEADER 2MM			
C10	5827	150N 250V 20%CAP BLK 'X2' 15MM AC	W6	4164	2 PIN .2 POWER PIN HEADER RA			
C11	6545	__1N 250V 20%CAP BLK 'Y' 10MM AC	ZD201		SMAZ18-13-F 18V0 1W0 5% SMT ZEN			
C12	6545	__1N 250V 20%CAP BLK 'Y' 10MM AC						
C13	5267	100U 25V 20%CAP T&R RAD .2EL						
C14		_47U 35V 20%CAP 6.3MM SMT ELE						
C28		__1N 50V 5%CAP 0805 SMT NPO						
C30		__1N 50V 5%CAP 0805 SMT NPO						
C34		__4U7 50V 10%CAP 1210 SMT CER						
C37	6545	__1N 250V 20%CAP BLK 'Y' 10MM AC						
C38	6545	__1N 250V 20%CAP BLK 'Y' 10MM AC						
C39	5864	1000U 35V 20%CAP BLK 12X25MM EL						
C40	5864	1000U 35V 20%CAP BLK 12X25MM EL						
C72		_10U0 16V 10%CAP 1206 SMT X7R						
C125	5217	_22N 560V 10%CAP BLK RAD POLY FLM						
C220		100N 50V 5%CAP 0805 SMT X7R						
C221		__4U7 50V 10%CAP 1210 SMT CER						
D1	5127	1N5406 600V 3A0 DIODE						
D5		MURS120T3 200V 1A DIO DO214AA SMT						
D6		MURS120T3 200V 1A DIO DO214AA SMT						
D10	6682	BRIDGE GBU406 4A 600V WIRE LEAD SIP						
D11		CDSF4148 75V 0A15 1005 SMT						
D12		CDSF4148 75V 0A15 1005 SMT						
D36		ES1H 500V 1A0 D214 UPGT 8814						
D206		MURA260T3 600V 2A DIO 403D SMT						
D207		MURA260T3 600V 2A DIO 403D SMT						
F1	2494	FUSE 5A0 250V TIME DELAY T&R						
F2	2494	FUSE 5A0 250V TIME DELAY T&R						
HS1	1669	M1637 HEATSINK RIVETED						
HS2	4181	TO220 THERMO PAD CERAMIC .080 THK						
HS3	4181	TO220 THERMO PAD CERAMIC .080 THK						
HW1	8667	.229X1/8L SHOULDER WASHER						
HW2	8667	.229X1/8L SHOULDER WASHER						
HW3	9067	1/8X5/16XID.64 NYLON SPACER						
HW4	9067	1/8X5/16XID.64 NYLON SPACER						
HW5	8682	#4 .125IDX.281ODX.031 TEFLON WASHER						
K1	3105	RELAY 1C 10AMP DC12 030MA PC-C						
L1	1259	1280UH GATE DRV XFMR PC MNT						
L2	6581	COMMON MODE CHOKE 5MH						
L3	3310	54.3UH COIL 0R03 20T 17GA/LTZ GAPD						
L4	3309	42.7UH COIL 0R17 70T 24GA TOR VMNT						
L5	3308	45UH COIL 0R7 35T 22GA TOROID VMNT						
L6	6581	COMMON MODE CHOKE 5MH						
L7		__8.2UH COIL 1210 SMT						
L219		1000UH 10% COIL 12MM SMT						
M1632	M1632	PS PFC FAN CNTRL PCB						
M1636	M1636	PS PFC SW MODULE PCB						
PCB1	M1637BLANK	2_OZ 2SD 56.1 SQIN 02PER LED PS						
Q2	6725	PSMN017-80PS TO220 NCH MFET TM						
Q3	6725	PSMN017-80PS TO220 NCH MFET TM						
R1		W125 11K0 1% 0805 SMT RES						
R2	6622	10R 20% THERMISTOR NTC						
R3		FREE PART NUMBER						
R4		FREE PART NUMBER						
R5		W250 1M0 1% 1206 SMT RES						
R6		W250 1M0 1% 1206 SMT RES						
R7		W250 100K 5% 1206 SMT RES						
R8		W250 100K 5% 1206 SMT RES						
R9		W250 100K 5% 1206 SMT RES						
R10		W250 100K 5% 1206 SMT RES						
R11		W250 100K 5% 1206 SMT RES						
R12		W250 100K 5% 1206 SMT RES						
R36		W500 2K2 5% 2010 SMT RES						
R37		W125 47R 5% 0805 SMT RES						
R39		W250 22R 5% 1206 SMT RES						
R40		W250 22R 5% 1206 SMT RES						
R41		2W00 0R05 1% OARS SMT RES						
R42		W125 47R 5% 0805 SMT RES						
R43		1W00 2R0 1% 2512 SMT RES						
R46		1W00 2R0 1% 2512 SMT RES						
R93		W125 1K62 1% 0805 SMT RES						

M2120 02 Parts Reference List 11/9/2021

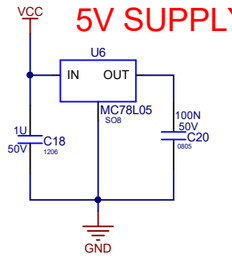
REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
AI-ASS	M2120-59	LP-LED2M POD PCB AI	R36		W250 0R 1206 SMT RES									
C1		_1U0 50V 10%CAP 1206 SMT CER	R37		PTC RESETTABLE 0A2 0R8 1812 SMT									
C2		_1U0 50V 10%CAP 1206 SMT CER	R38		W250 0R 1206 SMT RES									
C3		100N 50V 5%CAP 0805 SMT X7R	R39		W250 0R 1206 SMT RES									
C4		_1U0 50V 10%CAP 1206 SMT CER	R40		W250 0R 1206 SMT RES									
C5		100N 50V 5%CAP 0805 SMT X7R	R41		W250 0R 1206 SMT RES									
C6		_1U0 50V 10%CAP 1206 SMT CER	R42		W250 0R 1206 SMT RES									
C8		_1U0 50V 10%CAP 1206 SMT CER	R43		W250 0R 1206 SMT RES									
C9		470N 50V 5%CAP 1206 SMT X7R	R44		W250 0R 1206 SMT RES									
C10		470N 50V 5%CAP 1206 SMT X7R	R45		W250 0R 1206 SMT RES									
C11		_1N 50V 5%CAP 0805 SMT NPO	R46		W250 0R 1206 SMT RES									
C12		100N 50V 5%CAP 0805 SMT X7R	R47		W125 10K 5% 0805 SMT RES									
C13		_1U 25V 20%CAP 1206 SMT X7R	R48		W125 10K 5% 0805 SMT RES									
C14		_1U 25V 20%CAP 1206 SMT X7R	R49		W125 10K 5% 0805 SMT RES									
C16		100N 250V 10%CAP 1206 SMT X7R	R50		W125 10K 5% 0805 SMT RES									
C17		_1U 25V 20%CAP 1206 SMT X7R	R51		W250 0R 1206 SMT RES									
C18		_1U0 50V 10%CAP 1206 SMT CER	R52		W250 0R 1206 SMT RES									
C19		100N 50V 5%CAP 0805 SMT X7R	SNL1	8372	1 MIL POLYIMIDE LABEL,.375" X .375"									
C20		100N 50V 5%CAP 0805 SMT X7R	TP2		TEST POINT MINIATURE SMT									
C21		100N 50V 5%CAP 0805 SMT X7R	TP3		TEST POINT MINIATURE SMT									
C23		_1U 25V 20%CAP 1206 SMT X7R	U1		AL8805 HE 36V 1A BUCK LED DRV SOT25									
D1		MBRA340T3 40V 3A SHTKY 403D SMT	U2		CY8C32 PSOC SSOP48 16KB T&R									
D2		B160-E3 60V 1A0 SCH DO214AC SMT	U3		AL8805 HE 36V 1A BUCK LED DRV SOT25									
D3		MBRA340T3 40V 3A SHTKY 403D SMT	U4		AL8805 HE 36V 1A BUCK LED DRV SOT25									
D4		MBRA340T3 40V 3A SHTKY 403D SMT	U5		AL8805 HE 36V 1A BUCK LED DRV SOT25									
D5		MBRA340T3 40V 3A SHTKY 403D SMT	U6		MC78L05 REG 5V SMT SO8									
D6		MMBZ5227B 3V6 0W35 5% SMT ZEN	W1		2X2 3 MM MICRO MATE-N-LOK SMT									
D7		BZX84B5V1 5V1 0W2 SOT-23 SMT ZEN	W2		2 PIN HEADER 2MM HORZ SM4 SMT									
HW2	8826	4-40X3/16 FLAT PHIL U/C TRILOB	W3		10 CIR DUAL ROW HDR 0.05 SPC SMT									
HW3	8925	#4 INTERNAL TOOTH LOCKWASHER												
L1		_0.3UH 20% COIL 3MM5 SMT												
L2		_0.3UH 20% COIL 3MM5 SMT												
L3		_12UH COIL 4A 0R04 10MMSQ SMT												
L4		_12UH COIL 4A 0R04 10MMSQ SMT												
L5		_0.3UH 20% COIL 3MM5 SMT												
L6		_12UH COIL 4A 0R04 10MMSQ SMT												
L7		_12UH COIL 4A 0R04 10MMSQ SMT												
L8		220.0UH COIL SMT												
L9		_0.3UH 20% COIL 3MM5 SMT												
LD1		0A7 RGBW LED EMITTER SMT												
LD2		0A7 RGBW LED EMITTER SMT												
LD3		0A7 RGBW LED EMITTER SMT												
LD4		0A7 RGBW LED EMITTER SMT												
PCB1	M2120BLANK	2_OZ 1SD 65.94 SQIN 06PER AL LPL31E												
Q1		DMN3067LW NCH MFET SOT323 SMT												
R1		W250 0R 1206 SMT RES												
R2		W500 0R1 1% 1206 SMT RES												
R3		W250 0R 1206 SMT RES												
R4		W500 0R1 1% 1206 SMT RES												
R5		W250 0R 1206 SMT RES												
R6		W500 0R1 1% 1206 SMT RES												
R7		W250 0R 1206 SMT RES												
R8		W100 1K0 1% 0805 SMT RES												
R9		W125 10R0 1% 0805 SMT RES												
R10		1W00 1K 5% 2512 SMT RES												
R11		W125 10K 5% 0805 SMT RES												
R12		W125 100K 5% 0805 SMT RES												
R13		W250 1R 5% 1206 SMT RES												
R14		W125 10K 5% 0805 SMT RES												
R15		W250 100R 5% 1206 SMT RES												
R16		W250 0R 1206 SMT RES												
R17		W250 0R 1206 SMT RES												
R18		W250 0R 1206 SMT RES												
R19		W250 0R 1206 SMT RES												
R20		W250 0R 1206 SMT RES												
R21		W250 0R 1206 SMT RES												
R22		W250 0R 1206 SMT RES												
R23		W500 0R1 1% 1206 SMT RES												
R24		W250 0R 1206 SMT RES												
R25		W250 0R 1206 SMT RES												
R26		W250 0R 1206 SMT RES												
R27		W250 0R 1206 SMT RES												
R28		W250 0R 1206 SMT RES												
R29		W250 0R 1206 SMT RES												
R30		W250 0R 1206 SMT RES												
R31		W250 0R 1206 SMT RES												
R32		W250 0R 1206 SMT RES												
R33		W750 0R 1% 2010 SMT JMP												
R34		W250 0R 1206 SMT RES												
R35		_10K 5% THERMISTOR NTC 0603 SMT												

M2122-01 Parts Reference List 3/21/2022

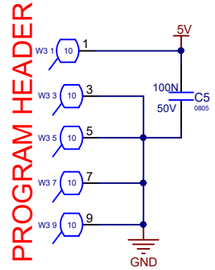
REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
AI-ASS	M2122-59	LP-LED4X CNTRL BRD	J3	3923	XLR MALE PCB MT HORZ MTHOLE-V SNAP	R67		W125 470R 5% 0805 SMT RES						
C1		1U 25V 20%CAP 1206 SMT X7R	J6	3922	XLR FEML PCB MT HORZ THIN SNAP-IN	R69		2W00 680R 1% 2512 SMT RES						
C2		1U 25V 20%CAP 1206 SMT X7R	J7	3923	XLR MALE PCB MT HORZ MTHOLE-V SNAP	R70		W125 4K7 5% 0805 SMT RES						
C3		100N 50V 5%CAP 0805 SMT X7R	L1		FERRITE BEAD 600R @100MHZ 0805 SMT	R71		W100 1K0 1% 0805 SMT RES						
C4		100N 50V 5%CAP 0805 SMT X7R	L3		FERRITE BEAD 1A5 26R SMT 1206	R72		W250 4K7 5% 1206 SMT RES						
C5		330P 50V 5%CAP 0805 SMT NPO	L4		FERRITE BEAD 1A5 26R SMT 1206	R73		W100 1K0 1% 0805 SMT RES						
C6		680U 6V3 20%CAP 8X10 SMT ELE	L5		FERRITE BEAD 1A5 26R SMT 1206	R74		W100 1K0 1% 0805 SMT RES						
C12		47U 35V 20%CAP 6.3MM SMT ELE	L6		8.2UH COIL 1210 SMT	R75		W125 20K 5% 0805 SMT RES						
C16		1N 50V 5%CAP 0805 SMT NPO	L7		470UH COIL 10X10MM SMT	R76		W125 10K00 0.1% 0805 SMT RES						
C17		1N 50V 5%CAP 0805 SMT NPO	LD1	6408	GRN 3MM LED 2V2 20MA DIFFUSD	R77		W125 20K 5% 0805 SMT RES						
C18		1N 50V 5%CAP 0805 SMT NPO	MIC1		MIC MEMS ANALOG OMNI M3125 SMT	R78		W100 1M0 1% 0805 SMT RES						
C19		1N 50V 5%CAP 0805 SMT NPO	P1	4969	ROT GRY 20MM 5BIT ENCODER P31	R79		W100 100R 1% 0805 SMT RES						
C20		1N 50V 5%CAP 0805 SMT NPO	P2	4969	ROT GRY 20MM 5BIT ENCODER P31	R80		2W00 680R 1% 2512 SMT RES						
C21		1N 50V 5%CAP 0805 SMT NPO	P3	4969	ROT GRY 20MM 5BIT ENCODER P31	R81		W125 10K00 0.1% 0805 SMT RES						
C22		1N 50V 5%CAP 0805 SMT NPO	P4	4969	ROT GRY 20MM 5BIT ENCODER P31	R82		W100 2K0 1% 0805 SMT RES						
C23		1N 50V 5%CAP 0805 SMT NPO	P5	4969	ROT GRY 20MM 5BIT ENCODER P31	R83		W100 1K0 1% 0805 SMT RES						
C24		100N 50V 5%CAP 0805 SMT X7R	P9	4527	ROT GRY HOR 20MM 4BIT ENCODER P31	R86		W125 470R 5% 0805 SMT RES						
C25		1N5 50V 5%CAP 0805 SMT NPO	PCB1	M2122BLANK	2 OZ 2SD 98.46SQIN 02PER LP-LED4X	R87		W125 470R 5% 0805 SMT RES						
C26		22P 50V 5%CAP 0805 SMT NPO	Q2		DMN3067LW NCH MFET SOT323 SMT	R88		W125 470R 5% 0805 SMT RES						
C27		1U 25V 20%CAP 1206 SMT X7R	Q3		MJB42C PNP D2PAK SMT TS	R89		W125 470R 5% 0805 SMT RES						
C28		100N 50V 5%CAP 0805 SMT X7R	Q4		MMBT3906LT1 PNP SOT-23 SMT T&R	R90		FUSE FAST 3A5 125V SMT 2410						
C29		1U 25V 20%CAP 1206 SMT X7R	Q5		MMBT3904 NPN SOT-23 SMT	R91		FUSE FAST 3A5 125V SMT 2410						
C30		100N 100V 10%CAP 1206 SMT X7R	R1		W250 2R4 5% 1206 SMT RES	R93		W100 1K0 1% 0805 SMT RES						
C31		1N5 50V 5%CAP 0805 SMT NPO	R2		W125 3K01 1% 0805 SMT RES	S1	4193	SPST SWITCH RA 12POS DIP NO PRINT						
C32		100N 50V 5%CAP 0805 SMT X7R	R3		W125 1K21 1% 0805 SMT RES	SNL1	8370	1 MIL POLYIMIDE LABEL, 1" X .380"						
C33		1U 25V 20%CAP 1206 SMT X7R	R4		W500 3R3 5% 1210 SMT RES	TP1		TEST POINT MINIATURE SMT						
C34		22P 50V 5%CAP 0805 SMT NPO	R5		47K 5% THERMISTOR NTC 0603 SMT	TP2		TEST POINT MINIATURE SMT						
C35		22P 50V 5%CAP 0805 SMT NPO	R6		W125 1K5 5% 0805 SMT RES	TP3		TEST POINT MINIATURE SMT						
C36		1N5 50V 5%CAP 0805 SMT NPO	R7		W100 2K0 1% 0805 SMT RES	TP4		TEST POINT MINIATURE SMT						
C37		100N 100V 10%CAP 1206 SMT X7R	R8		W100 2K0 1% 0805 SMT RES	TP5		TEST POINT MINIATURE SMT						
C38		33U 25V 20%CAP 6.3X5.5 SMT EL	R10		1W00 1K8 5% 2512 SMT RES	U1		MK40DX128VLL7 72MHZ MCU IC LQFP100						
C39		33U 25V 20%CAP 6.3X5.5 SMT EL	R11		W100 2K0 1% 0805 SMT RES	U2		MC33063ADR BUCK/BOOST INV IC SO8						
C40		33U 25V 20%CAP 6.3X5.5 SMT EL	R14		W125 47R 5% 0805 SMT RES	U4		PROC4 BLE MODULE 14X19MM SMT						
C41		1N 50V 5%CAP 0805 SMT NPO	R15		W125 47R 5% 0805 SMT RES	U5		TLV2474 QUAD OPAMP 2.8M SMT 14SOIC						
C42		100N 50V 5%CAP 0805 SMT X7R	R16		W100 1K0 1% 0805 SMT RES	U6		SN74AHC138DR 3TO8 DECOD SMT IC						
C43		100N 50V 5%CAP 0805 SMT X7R	R17		W100 1K0 1% 0805 SMT RES	U7		TLV2474 QUAD OPAMP 2.8M SMT 14SOIC						
C44		100N 50V 5%CAP 0805 SMT X7R	R18		W100 1K0 1% 0805 SMT RES	U8		50K MAX5414EUD DPOT SMT IC						
C45		1U 25V 20%CAP 1206 SMT X7R	R19		W100 2K0 1% 0805 SMT RES	U9		LM393D DUAL COMPARATOR SMT SO-8						
C46		1U 25V 20%CAP 1206 SMT X7R	R20		W100 1K0 1% 0805 SMT RES	U10		QUAD TRI-STATE BUFFER SMT SOIC14						
C47		100N 50V 5%CAP 0805 SMT X7R	R21		W100 1K0 1% 0805 SMT RES	U11		RS485/422 RCVR IC SMT SOT23-5						
C48		1U 25V 20%CAP 1206 SMT X7R	R22		W100 1K0 1% 0805 SMT RES	U13		TLV2316 DUAL OPAMP LOWNOISE SMT SO8						
C49		100N 50V 5%CAP 0805 SMT X7R	R23		W100 1K0 1% 0805 SMT RES	U14		TLV2316 DUAL OPAMP LOWNOISE SMT SO8						
C50		100N 50V 5%CAP 0805 SMT X7R	R24		W100 1K0 1% 0805 SMT RES	U15		SN74LVC1G3157 SPDT SW SMT SOT236						
C51		100N 50V 5%CAP 0805 SMT X7R	R25		W100 2K0 1% 0805 SMT RES	U16	7012	LP2950-33 LDRP TO92 FIXED 3V3 REG						
C52		100N 50V 5%CAP 0805 SMT X7R	R26		W100 1K0 1% 0805 SMT RES	W1	2327	6 CIR XH-HEADER 0.098IN						
C53		100N 50V 5%CAP 0805 SMT X7R	R27		FUSE FAST 3A5 125V SMT 2410	W2		10 CIR DUAL ROW HDR 0.05 SPC SMT						
C54		10U 16V 20%CAP 0805 SMT X5R	R28		FUSE FAST 3A5 125V SMT 2410	W3	2343	6 CIR XH-HEADER RA 0.098IN						
C55		100U 25V 20%CAP 8X5.4 SMT ELE	R29		W250 100R 5% 1206 SMT RES	W4	4194	2X2 3 MM MICRO MATE-N-LOK VRT						
C56		100P 50V 10%CAP 0805 SMT NPO	R30		W100 1K0 1% 0805 SMT RES	W5	4194	2X2 3 MM MICRO MATE-N-LOK VRT						
C57		100P 50V 10%CAP 0805 SMT NPO	R31		W100 2K0 1% 0805 SMT RES	W6	4194	2X2 3 MM MICRO MATE-N-LOK VRT						
C59		100N 50V 5%CAP 0805 SMT X7R	R32		W100 2K0 1% 0805 SMT RES	W7	4194	2X2 3 MM MICRO MATE-N-LOK VRT						
C60		1N 50V 5%CAP 0805 SMT NPO	R33		W250 619K 1% 1206 SMT RES	W9	4164	PIN & SOCKET 2C CONNECTOR ASSEMBLY						
C61		100N 50V 5%CAP 0805 SMT X7R	R34		W125 4K02 0.1% 0805 SMT RES	W10		10 CIR DUAL ROW HDR 0.05 SPC SMT						
C62		10U 16V 20%CAP SMT ELC	R35		W250 619K 1% 1206 SMT RES									
C63		10U 16V 20%CAP SMT ELC	R36		W125 4K02 0.1% 0805 SMT RES									
C64		10U 16V 20%CAP SMT ELC	R38		W100 2K0 1% 0805 SMT RES									
C65		10U 16V 10%CAP 0805 SMT X6S	R39	6482	115R 20% 0W0 THERMISTOR PTC									
C66		10U 16V 10%CAP 0805 SMT X6S	R40		W100 2K0 1% 0805 SMT RES									
C67		100N 50V 5%CAP 0805 SMT X7R	R41		W250 100R 5% 1206 SMT RES									
C68		100N 50V 5%CAP 0805 SMT X7R	R42		W250 100R 5% 1206 SMT RES									
C69		100N 50V 5%CAP 0805 SMT X7R	R43		W250 100R 5% 1206 SMT RES									
C70		100N 50V 5%CAP 0805 SMT X7R	R44		W125 10K 5% 0805 SMT RES									
C71		100N 50V 5%CAP 0805 SMT X7R	R45		W100 100R 1% 0805 SMT RES									
C72		10N 50V 10%CAP 0805 SMT X7R	R46		W100 100R 1% 0805 SMT RES									
C73		100N 50V 5%CAP 0805 SMT X7R	R47		W125 82K5 1% 0805 SMT RES									
D1		B160-E3 60V 1A0 SCH DO214AC SMT	R48		W125 82K5 1% 0805 SMT RES									
D2		SMAJ150CA 150V 400W BIDIR SMT	R49		W125 47K5 1% 0805 SMT RES									
D3		BZX84C6V2 6V2 0W2 SOT-23 SMT ZEN	R50		W125 10K 5% 0805 SMT RES									
D4		MMSZ15T1G 15V 0W5 5% SMT ZEN	R51		W250 100R 5% 1206 SMT RES									
D5		B160-E3 60V 1A0 SCH DO214AC SMT	R52		W250 100R 5% 1206 SMT RES									
D6		SMAZ10-13-F 10V0 1W0 10% SMT ZEN	R53		1W00 1K 5% 2512 SMT RES									
D7		SMAJ150CA 150V 400W BIDIR SMT	R54		1W00 1K 5% 2512 SMT RES									
D8		SMAJ150CA 150V 400W BIDIR SMT	R55		W250 100R 5% 1206 SMT RES									
D9		MMSZ15T1G 15V 0W5 5% SMT ZEN	R56		1W00 39R 5% 2512 SMT RES									
D10		MMSZ15T1G 15V 0W5 5% SMT ZEN	R57		1W00 39R 5% 2512 SMT RES									
D11		MMSZ15T1G 15V 0W5 5% SMT ZEN	R58		W125 10K 5% 0805 SMT RES									
D12		BAV21WS 200V 0A2 SOD323 SMT	R59		W125 10K 5% 0805 SMT RES									
D13		B160-E3 60V 1A0 SCH DO214AC SMT	R64		W125 10K 5% 0805 SMT RES									
J1	3918	1/4" JCK PCB MT HORZ SLIM W/SCREW	R65		W125 470R 5% 0805 SMT RES									
J2	3922	XLR FEML PCB MT HORZ THIN SNAP-IN	R66		PTC RESETTABLE 0A2 0R8 1812 SMT									

TOP LEVEL SHEET

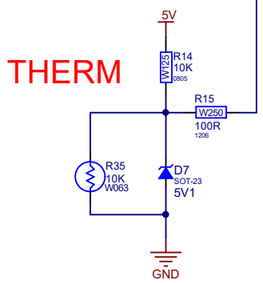
5V SUPPLY



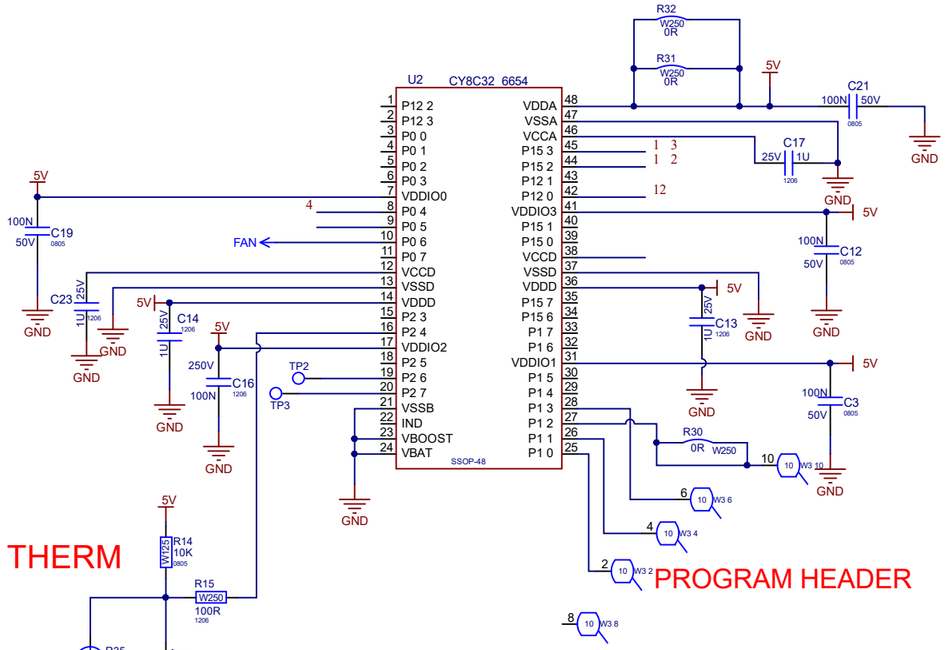
PROGRAM HEADER



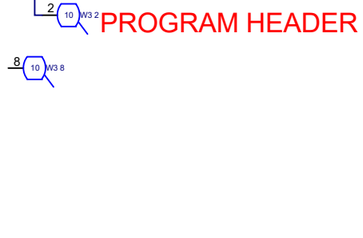
THERM



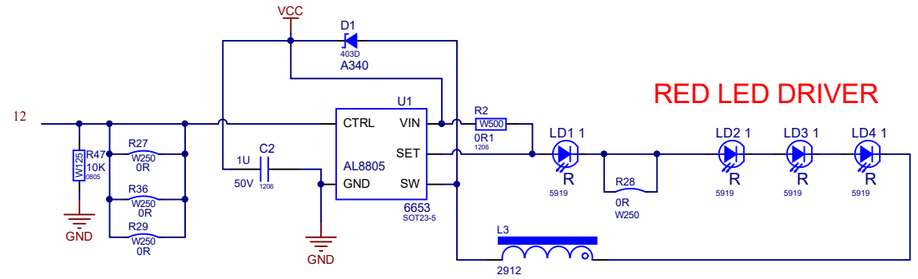
U2 CY8C32 6654



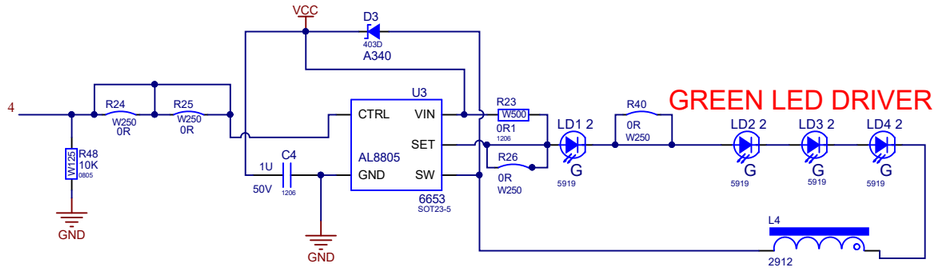
PROGRAM HEADER



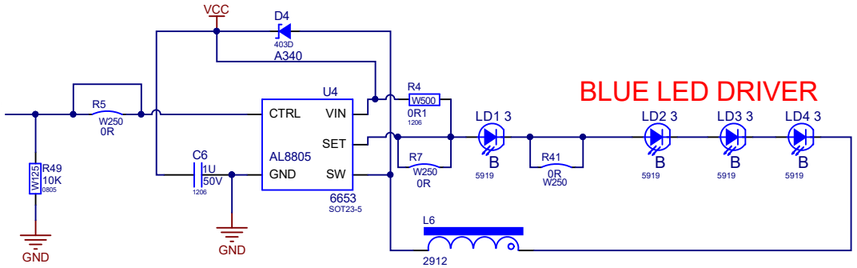
RED LED DRIVER



GREEN LED DRIVER

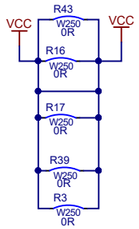


BLUE LED DRIVER

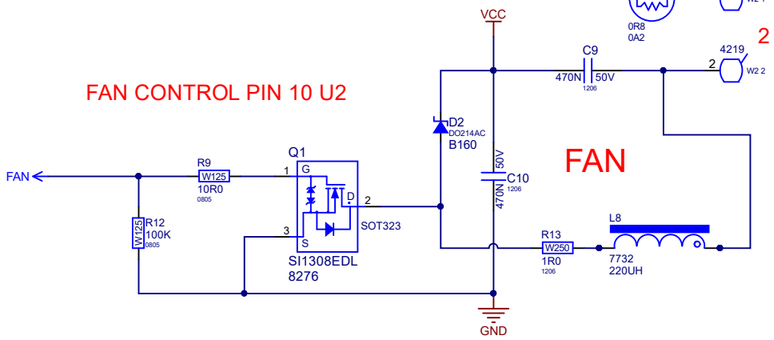


PTC FOR SHORT PROTECTION

2 PIN MALE HEADER

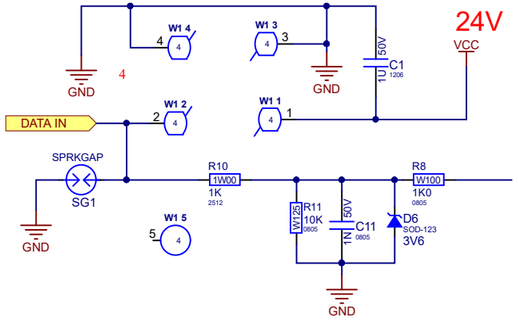


FAN CONTROL PIN 10 U2

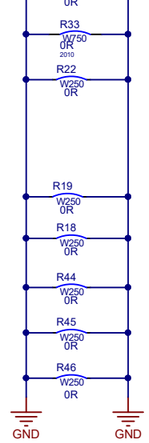


FAN

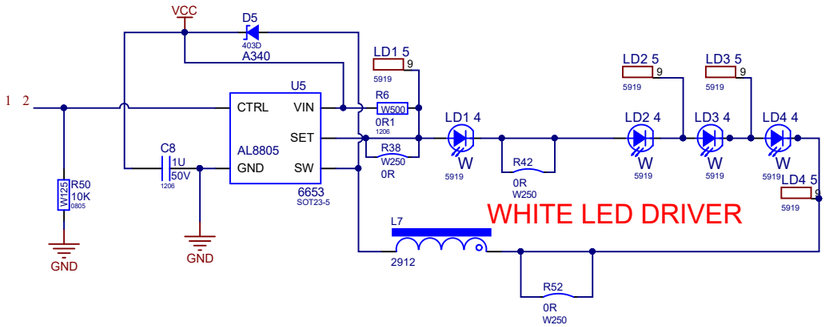
INPUT POWER



R1 R34 R51 R33 R22 R19 R18 R44 R45 R46



WHITE LED DRIVER



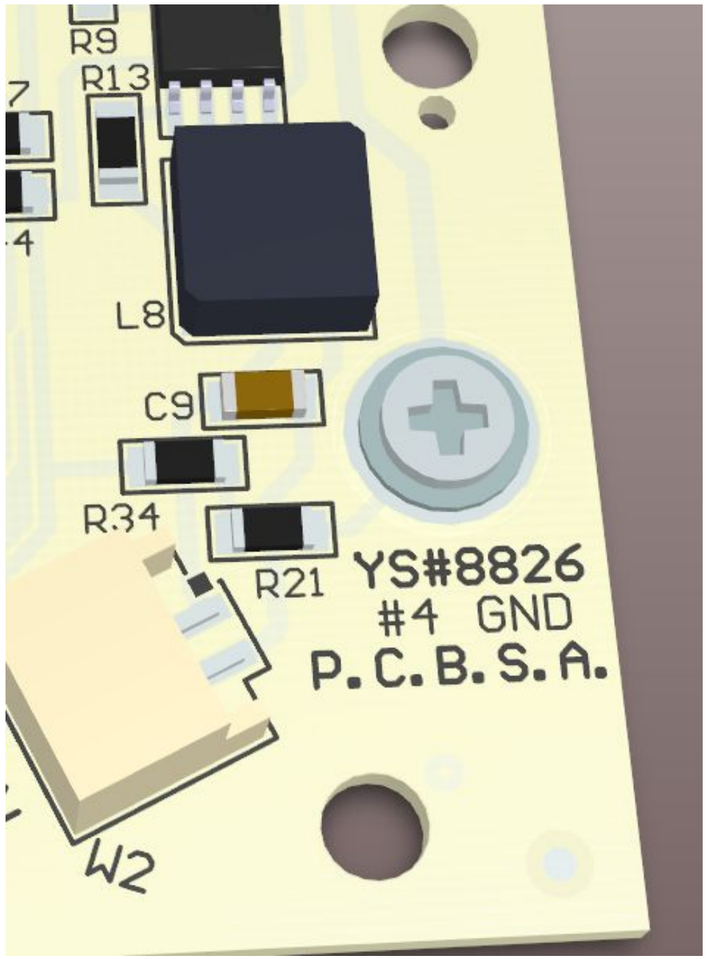
Yorkville SOUND	Product(s):	LP-LED4X			
	escription:	S ort Descri tion Of T e Product			
	PCB#: M1486	Rev#: V02	EML Rev#: XX	Sheet 1 Of 2	
	Modified: 2021-03-02	File: LED POD SCH.SchDoc		Tmp Rev: V031	

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

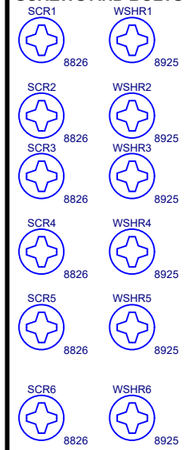
1. BEFORE PIZZA CUTTING PANEL, FASTEN 6 YS SCREWS #8826 AND WASHERS YS #8925 IN LOCATIONS INDICATED ON THE 6 PCBS IN THE PANEL.

2. THEN PIZZA CUT PANEL ALONG SCORE LINES.



PCB HARDWARE

SCREWS AND BOLTS	N TS	STANDO S	SCELLANEO S



THIS SHEET CONTAINS SPECIAL PRODUCTION NOTES AND A LIST OF PCB HARDWARE PARTS REQUIRED FOR THE BUILD.

Yorkville	Section: Assembly Documentation			
	Product(s): LP-LED4X			
	PCB#: M1486	Rev#: V02	EML Rev#: XX	Sheet 2 Of 14
	Modified: 2021-03-02	File: Assembly.SchDoc		Tmp Rev: V031

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	20-NOV-2016	V01	.	RELEASED FOR PRODUTION
2	04-FEB-2020	V02	9393	Im leme te PC9393 o bo#r .
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

POTENTIOMETERS AND KNOBS

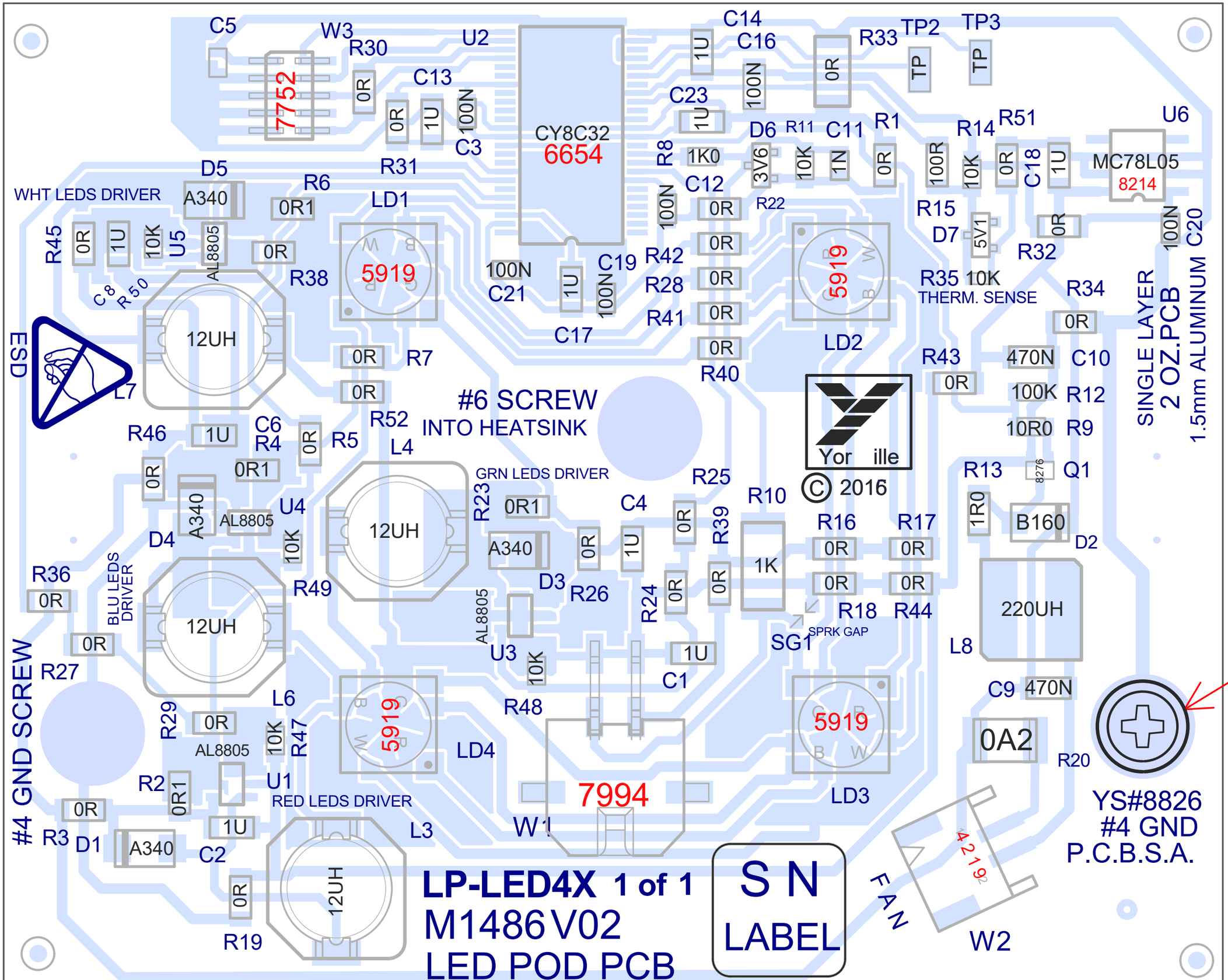
POTENTIOMETERS AND KNOBS			
REF	FUNCTION	POT#	KNOB#
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.

PINOUT DIAGRAMS

THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section:	Design Information And History			
Product(s):	LP-LED4X			
PCB#: M1486	Rev#: V02	EML Rev#: XX	Sheet 3 Of *	
Modified: 2021-03-02	File: History.SchDoc		Tmp Rev: V031	



LP-LED4X 1 of 1

M1486 V02

LED POD PCB

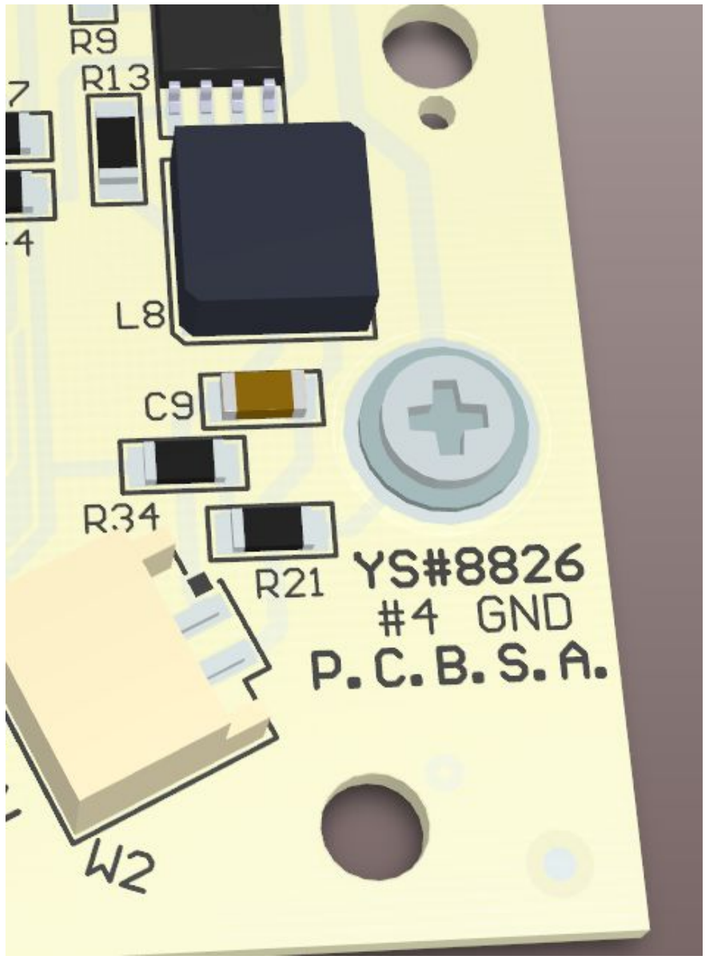
SEE NOTE 1.

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

1. BEFORE PIZZA CUTTING PANEL, FASTEN 6 YS SCREWS #8826 AND WASHERS YS #8925 IN LOCATIONS INDICATED ON THE 6 PCBS IN THE PANEL.

2. THEN PIZZA CUT PANEL ALONG SCORE LINES.



PCB HARDWARE

SCREWS AND BOLTS	N TS	STANDO S	SCELLANEO S

SCR1 8826 WSHR1 8925
SCR2 8826 WSHR2 8925
SCR3 8826 WSHR3 8925
SCR4 8826 WSHR4 8925
SCR5 8826 WSHR5 8925
SCR6 8826 WSHR6 8925

THIS SHEET CONTAINS SPECIAL PRODUCTION NOTES AND A LIST OF PCB HARDWARE PARTS REQUIRED FOR THE BUILD.

Yorkville

Section: Assembly Documentation				
Product(s): LP-LED4X				
PCB#: M1486	Rev#: V02	EML Rev#: XX	Sheet 2 Of 14	
Modified: 2020-01-30	File: Assembly.SchDoc		Tmp Rev: V031	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	20-NOV-2016	V01	.	RELEASED FOR PRODUTION
2	04-FEB-2020	V02	9393	Im leme te PC9393 o bo#r .
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

POTENTIOMETERS AND KNOBS

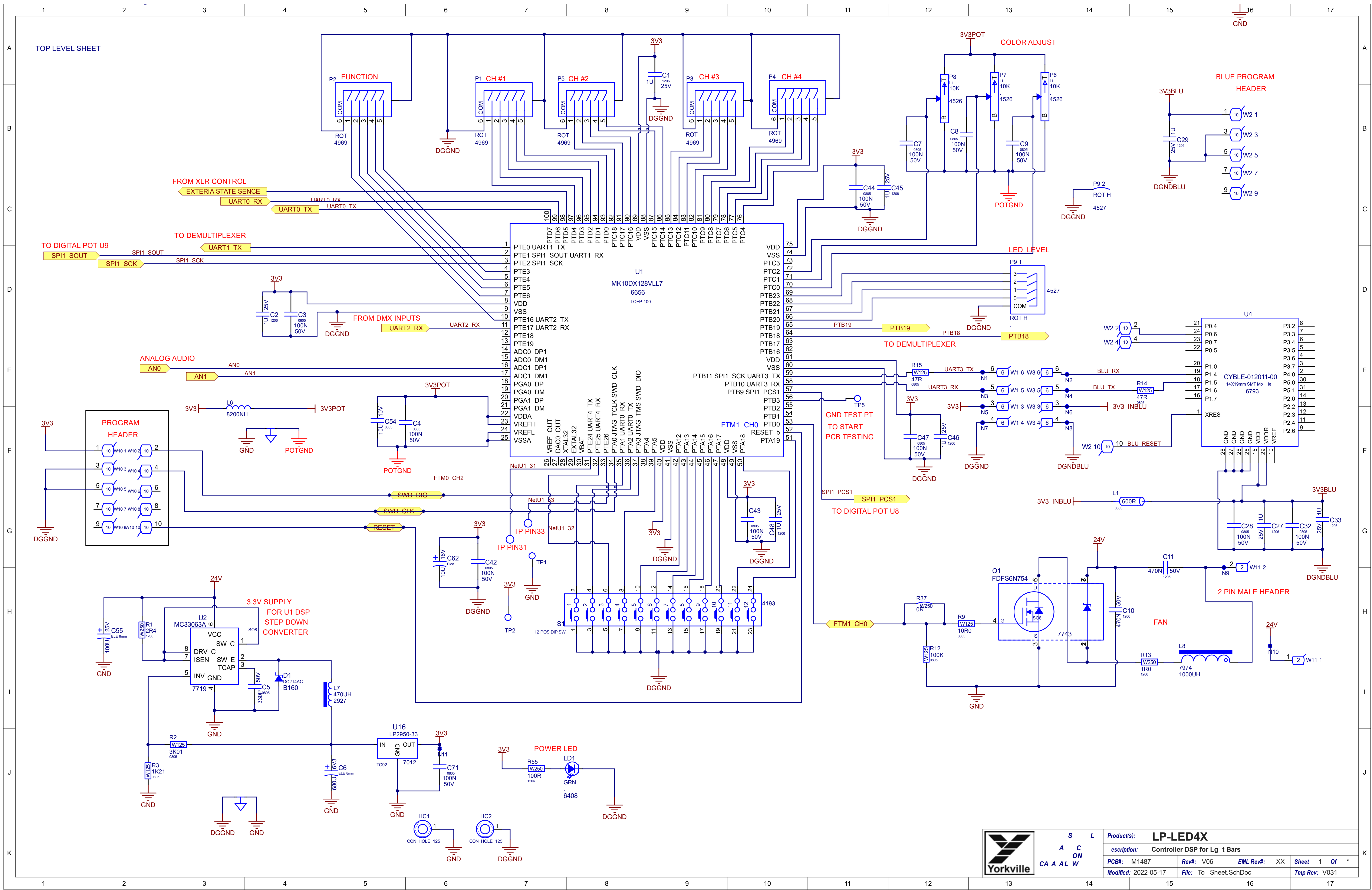
POTENTIOMETERS AND KNOBS			
REF	FUNCTION	POT#	KNOB#
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.

PINOUT DIAGRAMS

THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section:	Design Information And History			
Product(s):	LP-LED4X			
PCB#: M1486	Rev#: V02	EML Rev#: XX	Sheet 3 Of *	
Modified: 2020-01-30	File: History.SchDoc		Tmp Rev: V031	



TOP LEVEL SHEET
FUNCTION
CH #1
CH #2
CH #3
CH #4
COLOR ADJUST
BLUE PROGRAM HEADER
FROM XLR CONTROL
EXTERIA STATE SENCE
UART0 RX
UART0 TX
TO DEMULTIPLEXER
UART1 TX
TO DIGITAL POT U9
SPI1 SOUT
SPI1 SCK
FROM DMX INPUTS
UART2 RX
ANALOG AUDIO
AN0
AN1
U1
MK10DX128VLL7
6656
LQFP-100
LED LEVEL
PTB19
PTB18
TO DEMULTIPLEXER
U4
CYBLE-012011-00
6793
GND TEST PT TO START PCB TESTING
SPI1 PCS1
TO DIGITAL POT U8
PROGRAM HEADER
SWD DIO
SWD CLK
RESET
TP PIN33
TP PIN31
FTM1 CH0
3.3V SUPPLY FOR U1 DSP STEP DOWN CONVERTER
U2
MC33063A
U16
LP2950-33
POWER LED
Q1
FDFS6N754
FAN
2 PIN MALE HEADER
12 POS DIP SW
3V3
3V3POT
3V3BLU
24V
GND
DGGND
POTGND
DGNDBLU
Yorkville
Product(s): LP-LED4X
Description: Controller DSP for Light Bars
PCB#: M1487
Rev#: V06
EML Rev#: XX
Sheet 1 Of *
Modified: 2022-05-17
File: Top Sheet.SchDoc
Tmp Rev: V031

AUDIO IN
J1
1 4i JCK 3918
S R T
SG1 SPRKGAP
SG2 SPRKGAP
R71 W100 1K0 0805
R72 W250 4K7 1206
R73 W100 1K0 0805
C30 100N 1206 100V
D2 DO-214ACBI SMAJ150CA
D7 DO-214ACBI SMAJ150CA
C37 100N 1206 100V
R48 W125 82K5 0805
C56 100P 0805 50V
R47 W125 82K5 0805
C57 100P 0805 50V
R33 W250 619K 1206
R35 W250 619K 1206
C26 22P 0805 50V
R34 W125 4K02 0805
R36 W125 4K02 0805
U7 3 TLV2474 7946
R74 W100 1K0 0805
R38 W100 2K0 0805
C38 ELE 6mm 33U 25V
C39 ELE 6mm 33U 25V
C40 ELE 6mm 33U 25V
R40 W100 2K0 0805
R41 W250 100R 1206
R42 W250 100R 1206
R43 W250 100R 1206
AN1
U8 1 7945 MAX5414EUD
U8 2 MAX5414EUD 7945 TSSOP-14
C50 0805 100N
N.C.3 N.C.2 N.C.1
SPI1 SOUT
SPI1 PCS1
SPI1 SCK
SPI1 PCS1
U7 1 TLV2474 7946
U7 4 TLV2474 7946
C34 50V 0805 22P
C35 50V 0805 22P
R30 W100 1K0 0805
R31 W100 2K0 0805
R32 W100 2K0 0805
C31 1N5 0805 50V
C36 1N5 0805 50V
C25 1N5 0805 50V
U7 2 TLV2474 7946
TP4
TP3
R29 W250 100R 1206
AN0
C49 0805 100N 50V
U5 3 TLV2474 7946
R17 W100 1K0 0805
R11 W100 2K0 0805
C16 1N 0805 50V
C17 1N 0805 50V
R16 W100 1K0 0805
R86 W125 470R 0805
POD#1
POD# 1
N17
W4 1
U5 4 TLV2474 7946
R18 W100 1K0 0805
R19 W100 2K0 0805
C19 1N 0805 50V
C18 1N 0805 50V
R20 W100 1K0 0805
R87 W125 470R 0805
POD#2
POD# 2
N18
W5 1
112 H
U5 1 TLV2474 7946
R21 W100 1K0 0805
R82 W100 2K0 0805
C20 1N 0805 50V
C21 1N 0805 50V
R83 W100 1K0 0805
R88 W125 470R 0805
POD#3
POD# 3
N27
W6 1
U5 2 TLV2474 7946
R24 W100 1K0 0805
R25 W100 2K0 0805
C22 1N 0805 50V
C23 1N 0805 50V
R26 W100 1K0 0805
R89 W125 470R 0805
POD#4
POD# 4
N28
W7 1
FROM MICRO U1
PTB19
PTB18
U6 SN74AHC138 7948 SOIC-D
PIN 1 OF MICRO
UART1 TX
C53 0805 100N
U14 1 U14 3 TLV2316 6679 SO8
R75 W125 20K 0805
R77 W125 20K 0805
C63 Elec 10U 16V
C69 0805 100N
C70 0805 100N
C64 Elec 10U 16V
U15 SPDT 6677 SOT23-6
R78 W100 1M0 0805
C51 50V 0805 100N
C72 10N 0805 50V
R46 W100 100R 0805
R8 W100 2K0 0805
R22 W100 1K0 0805
R23 W100 1K0 0805
C65 10U 16V 0805
C66 10U 16V 0805
U13 1 U13 2 U13 3 TLV2316 6679 SO8
MIC2_3V3
3V3_INBLU
MIC_3V3
R45 W100 100R 0805
R79 W100 100R 0805
D12 SOD-323 200V
MIC M3125 12386
C73 0805 100N
C52 0805 100N
R7 W100 2K0 0805
R93 W100 1K0 0805
EXTERIA STATE SENCE
UART0 RX
U9 1 LM393D 7661
U9 2 LM393D 7661
U9 3 LM393D 7661
R44 W125 10K 0805
R70 W125 4K7 0805
R49 W125 47K5 0805
C41 1N 0805 50V
D6 DO-214AC 10V0
U10 5 SN74LVTH125 7959 SO14
C67 0805 100N
C68 0805 100N
U10 2 U10 3 U10 4 SN74LVTH125 7959 SOIC14
SN74LVTH125 U10 2
U5 5 7946 TLV2474
C61 0805 100N
J2 1 J2 2 XLR FEMALE 3922
SG3 SPRKGAP
SG4 SPRKGAP
D5 DO214AC B160
R80 2W00 680R 2512
R69 2W00 680R 2512
FROM CONTROLLER
J3 XLR MALE 3923
SG5 SPRKGAP
LINK
Ferrite L4
Ferrite L5
R66 0R8 0A2
R57 1W00 39R 2512
R56 1W00 39R 2512
Q2 SI1308EDL 8276 SOT323
L3 Ferrite
R51 W250 100R 1206
R50 W125 10K 0805
UART0 TX
R4 W500 3R3 1210
R10 1W00 1K8 2512 D2PAK
Q3 MJB42C 7843
R5 W125 47K 47K
R6 W125 1K5 0805
SOT23 7805 Q4 MMBT3906LT1
R59 W125 10K 0805
R58 W125 10K 0805
D3 SOT-23 6V2
R64 W125 10K 0805
Q5 MMBT3904 7838
C12 35V 6.6mm 470U
D13 DO214AC B160
J6 1 J6 2 XLR FEMALE 3922
FROM DMX
J7 LINK XLR MALE 3923
SG6 SPRKGAP
SG7 SPRKGAP
R53 1W00 1K 2512
R54 1W00 1K 2512
U11 MAX3280E 6658 SOT23-5
R65 W125 470R 0805
R67 W125 470R 0805
R52 W250 100R 1206
UART2 RX
C60 1N 0805 50V
C59 0805 100N 50V
D4 D11 D9 D10 SOD-123 MMSZ15T1G 15V0
W9 2 W9 1 YS 4164
C24 0805 100N
YS 4194
4 POS 3MM HEADER
W4 3 W4 4 W6 3 W6 4 W7 3 W7 4 W5 3 W5 4
ON LITTLE BREAKAWAY
DGNDBLU MICGND
GROUND TIES
AGND DGND GND

Yorkville	Section:			
	Product(s):	LP-LED4X		
	PCB#: M1487	Rev#: V06	EML Rev#: XX	Sheet 2 Of *
	Modified: 2022-05-17	File: INPUT-OUTPUT.SchDoc		Tmp Rev: V031

CHANGE HISTORY

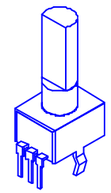
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	20-NOV-2016	V01	.	RELEASED FOR PRODUCTION
2	28-FEB-2017	V02	.	MOVED U3,Q3 AND COMPONENTS TO AVOID RUBBING KNOB. M#rty D.L.
3	01-MAY-2017	V03	9044	CHANGED POLARITY ON C63 AND C64. MILAD B.
4	04-MAY-2018	.	9197	IMPLEMENTED CHANGES AS PER PC#9197.
5	01-OCT-2018	V04	9274	REMOVE AND REPLACE XLR 24 V POWER SUPPLY.
6	01-OCT-2018	V04	9178	Mo e D2 # #y rom R39
7	17-DEC-2018	V05	9347	Ch# e DMX i t rotectio e ers to 15V i erse series
8	08-NOV-2019	V06	9435	Mo e D8 # #y rom ob o P4 # #te mt holes o e co ers b#se o m re est
9	17-MAY-2022	.	9778	Re l#ce L7 220 H i ctor YS#8152 ith 470 H YS#2927
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

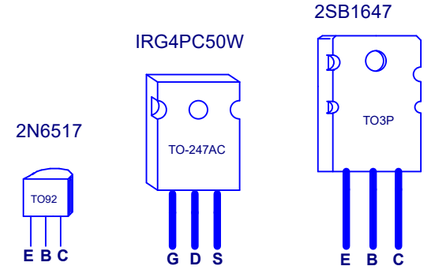
POTENTIOMETERS AND KNOBS

POTENTIOMETERS AND KNOBS			
REF	FUNCTION	POT#	KNOB#
P1	CH 1	4969	8653C
P2	FUNCTION	4969	8653C
P3	CH 3	4969	8653C
P4	CH 1	4969	8653C
P5	CH 2	4969	8653C
P9	BRIGHTNESS	4527	8653C
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.



STYLE P32

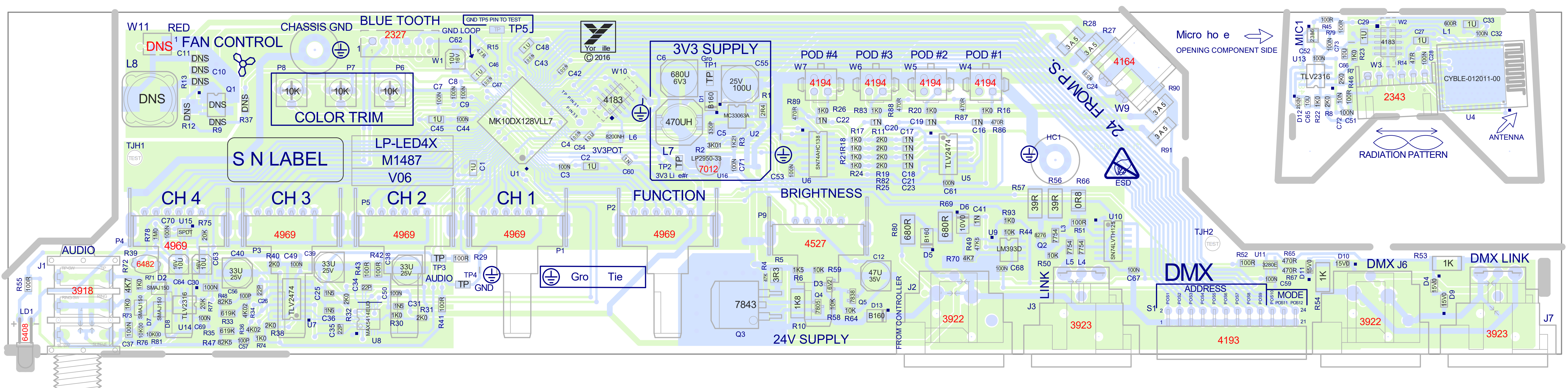
PINOUT DIAGRAMS



THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section: Design Information And History
Product(s): LP-LED4X
PCB#: M1487 | Rev#: V06 | EML Rev#: XX | Sheet 3 Of *
Modified: 2022-05-17 | File: History.SchDoc | Tmp Rev: V031


W11
RED
DNS
FAN CONTROL
CHASSIS GND
BLUE TOOTH
2327
GND TP5 PIN TO TEST
GND LOOP
TP5
© 2016
3V3 SUPPLY
POD #4
POD #3
POD #2
POD #1
4194
4164
24 FROM P.S.
Micro ho e
OPENING COMPONENT SIDE
MIC1
TLV2316
2343
CYBLE-012011-00
RADIATION PATTERN
ANTENNA
L8
COLOR TRIM
10K
MK10DX128VLL7
4183
680U 6V3
25V 100U
470UH
MC33063A
LP2950-33
7012
SN74AHC138
TLV2474
HC1
ESD
S N LABEL
LP-LED4X
M1487
V06
TJH1
CH 4
CH 3
CH 2
CH 1
FUNCTION
BRIGHTNESS
4969
4527
AUDIO
6482
3918
Gro
Tie
GND
7843
24V SUPPLY
FROM CONTROLLER
3922
3923
LINK
DMX
ADDRESS
MODE
4193
DMX J6
DMX LINK
TJH2
SN74LVTH125
LM393D

SPECIAL PRODUCTION NOTES

1. E s re All ots # s itches #re l sh mo te to the cb be ore se i cb thro h the # e.

2. Use i # c tter, here it is ossible to o so, to remo e bo#r s rom # el.

PCB HARDWARE

SCREWS AND BOLTS	NUTS	STANDOFFS	MISCELLANEOUS

THIS SHEET CONTAINS SPECIAL PRODUCTION NOTES AND A LIST OF PCB HARDWARE PARTS REQUIRED FOR THE BUILD.

Yorkville

Section: Assembly Documentation			
Product(s): LP-LED4X			
PCB#: M1487	Rev#: V06	EML Rev#: XX	Sheet 1 Of *
Modified: 2022-05-17	File: Assembly.SchDoc		Tmp Rev: V031

CHANGE HISTORY

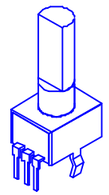
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	20-NOV-2016	V01	.	RELEASED FOR PRODUCTION
2	28-FEB-2017	V02	.	MOVED U3,Q3 AND COMPONENTS TO AVOID RUBBING KNOB. M#rty D.L.
3	01-MAY-2017	V03	9044	CHANGED POLARITY ON C63 AND C64. MILAD B.
4	04-MAY-2018	.	9197	IMPLEMENTED CHANGES AS PER PC#9197.
5	01-OCT-2018	V04	9274	REMOVE AND REPLACE XLR 24 V POWER SUPPLY.
6	01-OCT-2018	V04	9178	Mo e D2 # #y rom R39
7	17-DEC-2018	V05	9347	Ch# e DMX i t rotectio e ers to 15V i erse series
8	08-NOV-2019	V06	9435	Mo e D8 # #y rom ob o P4 # #te mt holes o e co ers b#se o m re est
9	17-MAY-2022	.	9778	Re l#ce L7 220 H i ctor YS#8152 ith 470 H YS#2927
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

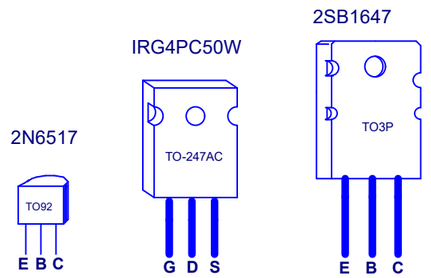
POTENTIOMETERS AND KNOBS

POTENTIOMETERS AND KNOBS			
REF	FUNCTION	POT#	KNOB#
P1	CH 1	4969	8653C
P2	FUNCTION	4969	8653C
P3	CH 3	4969	8653C
P4	CH 1	4969	8653C
P5	CH 2	4969	8653C
P9	BRIGHTNESS	4527	8653C
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.



STYLE P32

PINOUT DIAGRAMS



THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section: Design Information And History
Product(s): LP-LED4X
PCB#: M1487 | Rev#: V06 | EML Rev#: XX | Sheet 3 Of *
Modified: 2022-05-17 | File: History.SchDoc | Tmp Rev: V031

LP-LED2X

FUNCTION
CH #1
CH #2
P2
P1
P5
COM
ROT 4969
DGGND
3V3
C1 1U 25V 1206
DPDT PUSH
S2 2 3425
S2 1 3425
FROM XLR CONTROL
EXTERIA STATE SENCE
UART0_RX
UART0_TX
TO DEMULTIPLEXER
UART1_TX
TO DIGITAL POT U9
SPI1_SOUT
SPI1_SCK
U1
MK10DX128VLL7
6656
LQFP-100
PTE0 UART1_TX
PTE1 SPI1_SOUT UART1_RX
PTE2 SPI1_SCK
PTE3
PTE4
PTE5
PTE6
VDD
VSS
PTE16 UART2_TX
PTE17 UART2_RX
PTE18
PTE19
ADC0_DP1
ADC0_DM1
ADC1_DP1
ADC1_DM1
PGA0_DP
PGA0_DM
PGA1_DP
PGA1_DM
VDDA
VREFH
VREFL
VSSA
UART2_RX
FROM DMX INPUTS
ANALOG AUDIO
AN0
AN1
3V3ANALOG
L6 8200NH
C54 10U 10V 0805
C4 100N 50V 0805
R21 W125 47R 0805
C55 10U 10V 0805
GND
AGNDM
PROGRAM HEADER
W10 1
W10 2
W10 3
W10 4
W10 5
W10 6
W10 7
W10 8
W10 9
W10 10
SWD_DIO
SWD_CLK
RESET
NetU1_31
NetU1_33
NetU1_32
C62 Elec 10U 16V
C42 0805 100N 50V
TP1
TP2
S1
12 POS DIP SW
4193
C43 0805 100N 50V
C48 1206 1U 25V
C44 0805 100N 50V
C45 1206 1U 25V
LED LEVEL
P9
ROT H 4527
PTB19
PTB18
TO DEMULTIPLEXER
PTB11 SPI1_SCK UART3_TX
PTB10 UART3_RX
PTB9 SPI1_PCS1
TP5
GND TEST PT
TO START
PCB TESTING
R15 W125 47R 0805
UART3_TX
UART3_RX
C47 0805 100N 50V
C46 1206 1U 25V
N1
N2
N3
N4
N5
N6
N7
N8
BLU_RX
BLU_TX
3V3BT
R14 W125 47R 0805
BLUE PROGRAM HEADER
3V3BLU
C29 1206 1U 25V
DGNDBLU
W2 1
W2 2
W2 3
W2 4
W2 5
W2 6
W2 7
W2 8
W2 9
14X19mm SMT Mo le
CYBLE-012011-00
6793
U17
P0.4
P0.6
P0.7
P0.5
P1.0
P1.4
P1.5
P1.6
P1.7
XRES
P3.2
P3.3
P3.4
P3.5
P3.6
P3.7
P4.0
P5.0
P5.1
P2.0
P2.2
P2.3
P2.4
P2.6
GND
VDDR
VREF
W2 10
BLU_RESET
SPI1_PCS1
TO DIGITAL POT U8
PIN 54 GROUNDED
TO ENABLE LP-LED2X
L1 600R F0805
C28 0805 100N 50V
C27 1206 1U 25V
C32 0805 100N 50V
C33 1206 1U 25V
3.3V SUPPLY
FOR U1 DSP
STEP DOWN
CONVERTER
24V
U2
MC33063A
SO8
VCC
SW C
DRV C
ISEN SW E
TCAP
INV GND
7719
C7 ELE 8mm 100U 25V
R1 W250 0R27 1206
C5 0805 330P 50V
D1 DO214AC B160-13-F
L7 220UH 8152
R2 W125 3K01 0805
R3 W125 1K21 0805
C6 ELE 8mm 680U 6V3
U16
LP2950-33
IN GND OUT
TO92
7012
N11
C71 0805 100N 50V
POWER LED
R55 W250 100R 1206
LD1 GRN 6408
HC1 CON HOLE 125
HC2 CON HOLE 125
HC3 CON HOLE 125
FAN CONTROL PIN 10 U2
FTM1_CH0
R9 W125 10R0 0805
R12 W125 100K 0805
Q1 SOT323 DMN3067LW 8276
D14 DO214AC B160
C10 1206 470N 50V
R13 W250 1R0 1206
L8 7732 220UH
FAN
R37 0R8 0A2
N10
2396
W11 1
C11 1206 470N 50V
N9
W11 2
2 PIN MALE HEADER

Section: Lig t Bar Controller			
Product(s): LP-LED2X			
PCB#: M1488	Rev#: V03	En : T. Woo	Sheet 1 Of 3
Modified: 2024-05-15	File: DSP-LP-LEDX2.SchDoc		

Yorkville

AUDIO IN
J1
JCK 3918
SG1 SPRKGAP
SG2 SPRKGAP
R39 9482 PTC
R71 1K0
R72 4K7
R73 1K0
C30 100N
C37 100N
D2 DO-214ACBI SMAJ150CA
D7 DO-214ACBI SMAJ150CA
D8 DO-214ACBI SMAJ150CA
R48 82K5
R47 82K5
C56 100P
C57 100P
C26 22P
R33 619K
R35 619K
R34 4K02
R36 4K02
R74 1K0
R38 2K0
R40 2K0
R41 100R
AN1
C40 33U ELE 6mm
C38 33U ELE 6mm
C39 33U ELE 6mm
R42 100R
R43 100R
U7 4 TLV2474 7946
U7 3 TLV2474 7946
U8 1 7945 MAX5414EUD TSSOP-14
U8 2 MAX5414EUD 7945 TSSOP-14
SPI1 SOUT
SPI1 SCK
SPI1 PCS1
C50 100N
C49 100N
U7 1 TLV2474 7946
U7 2 TLV2474 7946
R30 1K0
R31 2K0
R32 2K0
C25 1N5
C31 1N5
C34 22P
C36 1N5
TP4
TP3
R29 100R
AN0
U5 3 TLV2474 7946
U5 4 TLV2474 7946
R86 470R
R16 1K0
POD#1
R87 470R
R20 1K0
POD#2
C16 1N
C17 1N
C19 1N
C18 1N
R17 1K0
R11 2K0
R18 1K0
R19 2K0
112 H
FROM MICRO U1
PTB19
PTB18
PIN 1 OF MICRO
UART1 TX
U6 SN74AHC138 7948 SOIC-D
C53 100N
U14 1 U14 3 TLV2316 6679
R81 10K00
R76 10K00
R75 20K
R77 20K
C63 10U
C64 10U
C69 100N
C70 100N
U15 SPDT 6677 SOT23-6
R78 1M0
W1 2
W3 2
N20
N21
N22
R46 100R
R8 2K0
C51 100N
C72 10N
MICGND
U13 2
U13 3 TLV2316 6679
R45 100R
R79 100R
MIC2_3V3
3V3BT
MIC_3V3
D12 SOD-323 200V
MIC1 MCE125 2386
C73 100N
C52 100N
R22 1K0
R23 1K0
R7 2K0
C65 10U
C66 10U
W3 1
W1 1
N23
TLV2316 6679 U13 1
R93 1K0
EXTERIA STATE SENCE
UART0 RX
U9 1 LM393D 7661
R44 10K
R70 4K7
R49 47K5
UART0 RX
U9 3 LM393D 7661
U9 2 LM393D 7661
C68 100N
C67 100N
U10 5 SN74LVTH125 7959 SO14
U10 2 SN74LVTH125 7959 SO14
U10 3 SN74LVTH125 7959 SO14
U10 4 SN74LVTH125 7959 SO14
C61 100N
U5 5 7946 TLV2474
ON LITTLE BREAKAWAY
GROUND TIES
DGNDBLU
MICGND
AGND
GND
DGGND
FROM CONTROLLER
J2 1 XLR FEMALE 3922
J2 2 XLR FEMALE 3922
SG3 SPRKGAP
SG4 SPRKGAP
R80 680R 2W00
R69 680R 2W00
D5 DO214AC B160
D6 DO-214AC 10V0
C41 1N
R57 39R 1W00
R56 39R 1W00
R66 0R8 0A2
Q2 DMN3067LW 8276
R50 10K
L3 Ferrite
L4 Ferrite
L5 Ferrite
R51 100R
U10 1 SN74LVTH125 7959 SOIC14
UART0 TX
J3 XLR MALE 3923
SG5 SPRKGAP
LINK
R10 1K8 2512
Q3 MJB42C 7843 D2PAK
Q4 MMBT3906LT1 7805 SOT23
R5 47K
R6 1K5
R4 3R3
R58 10K
R59 10K
D3 6V2 SOT-23
Q5 MMBT3904 7838
C12 470U
D13 DO214AC B160
FROM DMX
J6 1 XLR FEMALE 3922
J6 2 XLR FEMALE 3922
J7 XLR MALE 3923
LINK
SG6 SPRKGAP
SG7 SPRKGAP
R53 1K
R54 1K
R25 470R
R26 470R
U11 MAX3280E 6658 SOT23-5
R52 100R
C60 1N
C59 100N
D4 SOD-123 MMSZ15T1G 15V0
D9 SOD-123 MMSZ15T1G 15V0
D10 SOD-123 MMSZ15T1G 15V0
D11 SOD-123 MMSZ15T1G 15V0
UART2 RX
W7 1
W7 2
W7 3
W7 4
W6 1
W6 2
W6 3
W6 4
YS 4194
4 POS 3MM HEADER
YS 4164
W9 1
W9 2
C24
W4 1
W4 2
W4 3
W4 4
W5 1
W5 2
W5 3
W5 4
N24
N25

Yorkville

Section:

Product(s): LP-LED2X

PCB#: M1488 | Rev#: V03 | En : T. Woo | Sheet 2 Of 3

Modified: 2024-05-15 | File: INPUT-OUTPUT-X2.SchDoc

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	11-JUL-2017	V01	.	RELEASE FOR PRODUCTION
2	03-MAY-2018	.	9197	EXECUTED CHANGES AS PER PC#9197
3	01-APR-2019	V02	9347	Ch# e DMX i t rotectio e ers to 15V i erse series
4	15-MAY-2024	V03	9393	Ch# e # circ it er PC
5	15-NOV-2024	.	9778	Re l#ce L7 220 H i ctor YS#8152 ith 470 H i ctor YS#2927.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

POTENTIOMETERS AND KNOBS

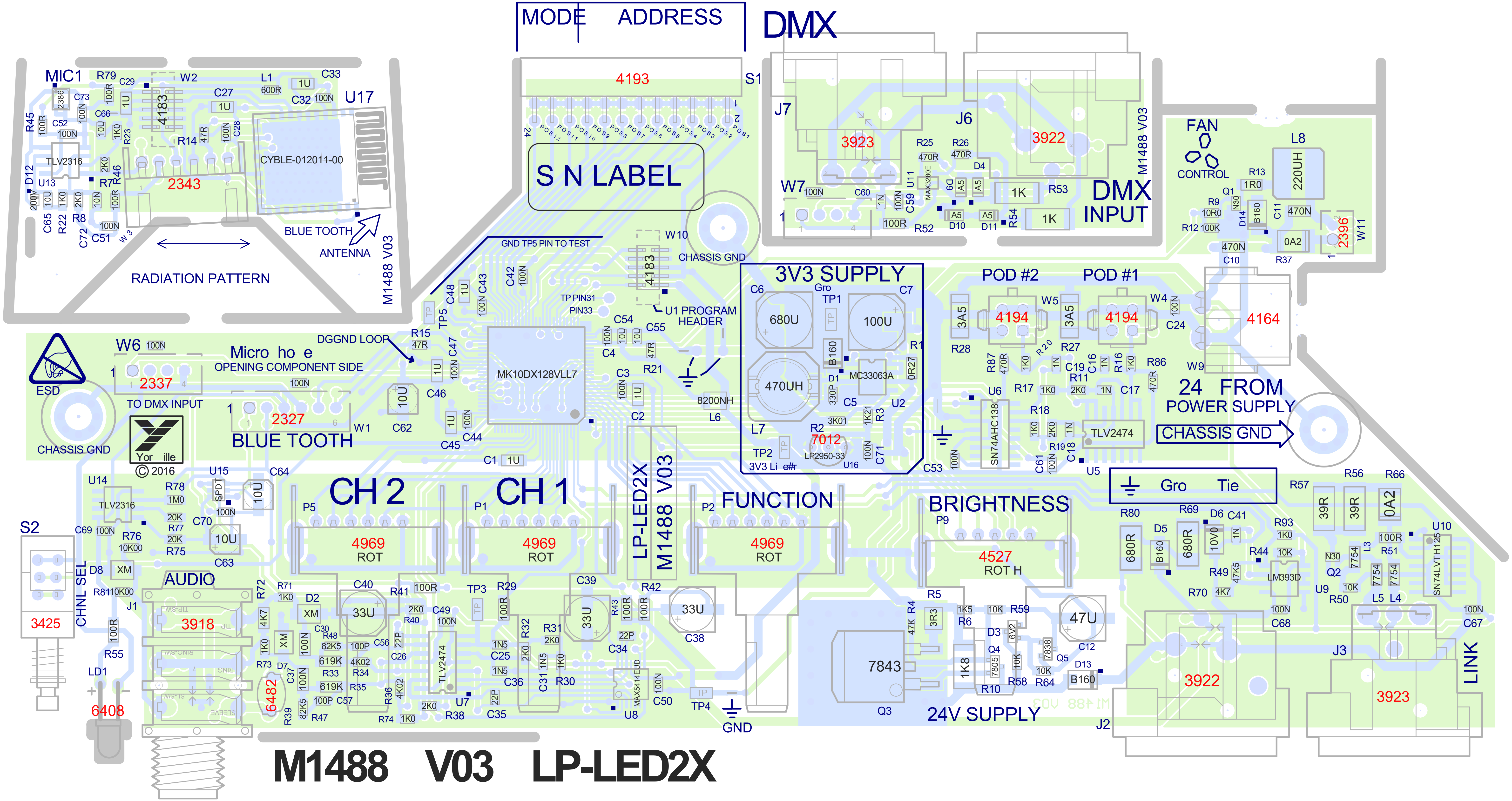
POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
S2	BLUETOOTH	3425	.	8636
P5	CH2	4969	P31	9029
P1	CH1	4969	P31	9029
P2	FUNCTION	4969	P31	9029
P9	BRIGHTNESS	4527	P31	9029
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.

PINOUT DIAGRAMS

THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section: Design Information And History
Product(s): LP-LED2X
PCB#: M1488 | Rev#: V03 | En : T. Woo | Sheet 3 Of 3
Modified: 2024-11-15 | File: History.SchDoc


MODE
ADDRESS
DMX
4193
S1
S N LABEL
J7
J6
3923
3922
DMX INPUT
M1488 V03
FAN CONTROL
L8
220UH
2396
W11
MIC1
W2
4183
U17
CYBLE-012011-00
TLV2316
2343
BLUE TOOTH ANTENNA
RADIATION PATTERN
M1488 V03
GND TP5 PIN TO TEST
W10
CHASSIS GND
U1 PROGRAM HEADER
TP PIN31
PIN33
3V3 SUPPLY
680U
100U
470UH
MC33063A
7012
LP2950-33
POD #2
POD #1
4194
4194
4164
24 FROM POWER SUPPLY
CHASSIS GND
TLV2474
SN74AHC138
ESD
W6
Micro ho e
OPENING COMPONENT SIDE
DGGND LOOP
2337
TO DMX INPUT
2327
BLUE TOOTH
CHASSIS GND
© 2016
MK10DX128VLL7
8200NH
CH 2
CH 1
LP-LED2X M1488 V03
FUNCTION
BRIGHTNESS
Gro Tie
4969 ROT
4969 ROT
4969 ROT
4527 ROT H
S2
CHNL SEL
3425
AUDIO
3918
6482
6408
LD1
TLV2474
MAX5414EUD
7843
24V SUPPLY
LM393D
SN74LVTH125
3922
3923
J2
J3
LINK
GND
TP4
M1488 V03 LP-LED2X

PCB ASSEMBLY DOCUMENTATION

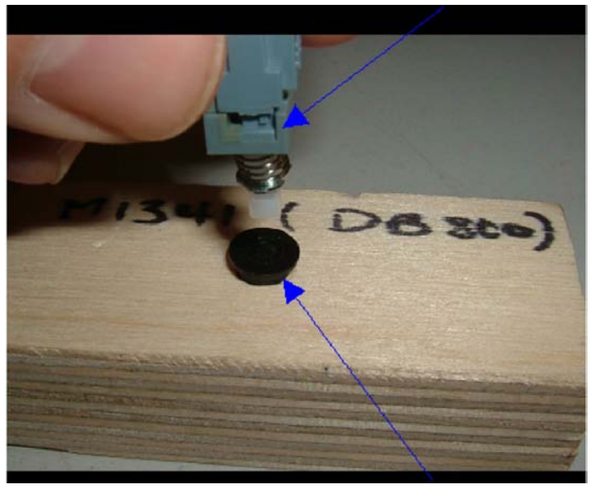
SPECIAL PRODUCTION NOTES

1. PCBSA ADD RTV WHERE APPROPRIATE

2. PCBSA USE JIG SHOWN BELOW TO PLACE BLACK CAP (YS# 8636) ON TO SWITCH (YS# 3425).

3. PCBSA USE PIZZA CUTTER TO SEPARATE BOARD FROM PANEL WHERE SMT COMPONENTS ARE CLOSE TO THE SCORE LINE.

YS# 3425



YS# 8636

PCB HARDWARE

THIS SHEET CONTAINS SPECIAL PRODUCTION NOTES AND A LIST OF PCB HARDWARE PARTS REQUIRED FOR THE BUILD.

Yorkville	Section: Assembly Documentation			
	Product(s): LP-LED2X			
	PCB#: M1488	Rev#: V03	En : T. Woo	Sheet 2 Of 3
	Modified: 2024-05-15	File: Assembly.SchDoc		

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	11-JUL-2017	V01	.	RELEASE FOR PRODUCTION
2	03-MAY-2018	.	9197	EXECUTED CHANGES AS PER PC#9197
3	01-APR-2019	V02	9347	Ch# e DMX i t rotectio e ers to 15V i erse series
4	15-MAY-2024	V03	9393	Ch# e # circ it er PC
5	15-NOV-2024	.	9778	Re l#ce L7 220 H i ctor YS#8152 ith 470 H i ctor YS#2927.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

POTENTIOMETERS AND KNOBS

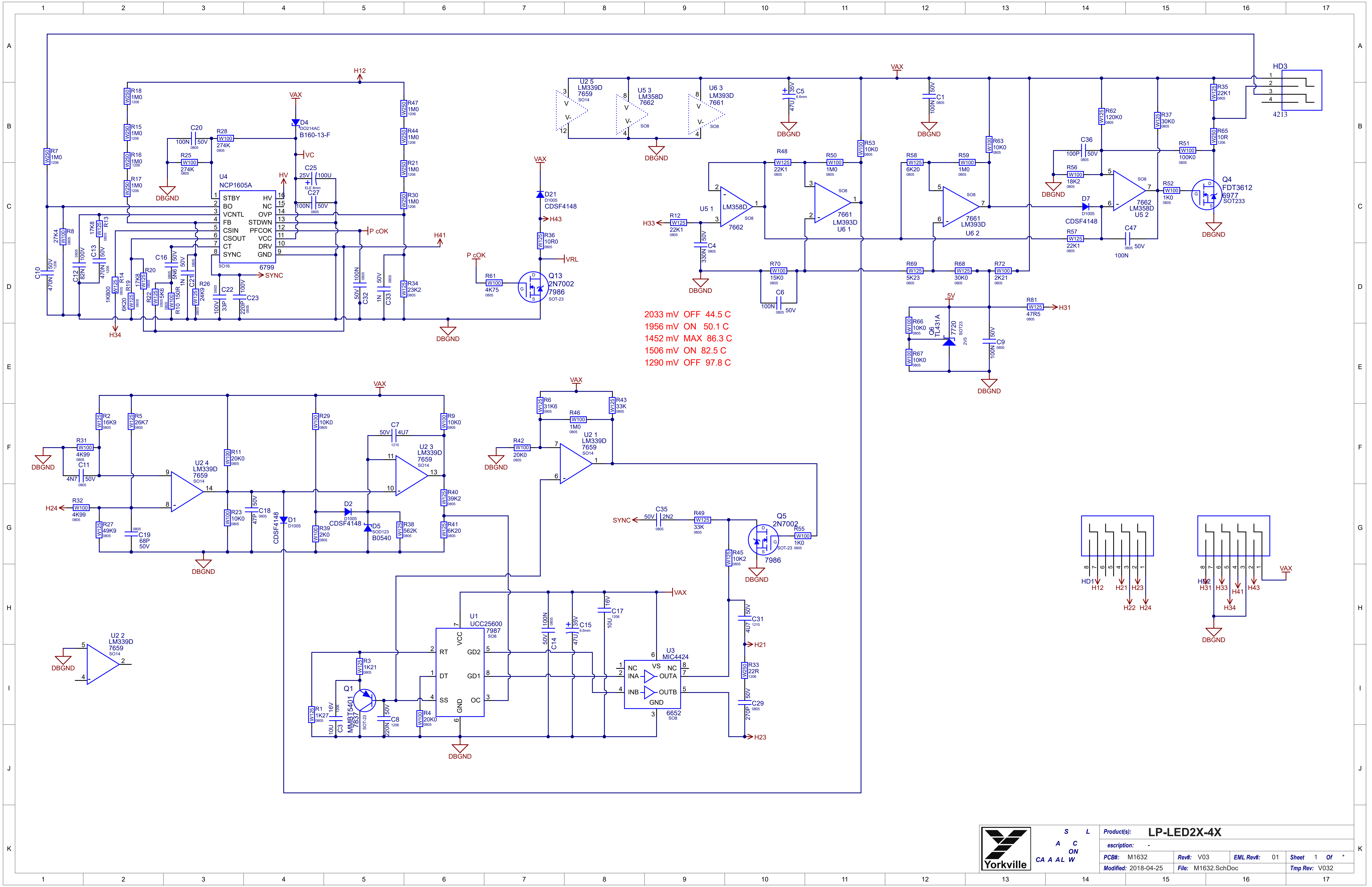
POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
S2	BLUETOOTH	3425	.	8636
P5	CH2	4969	P31	9029
P1	CH1	4969	P31	9029
P2	FUNCTION	4969	P31	9029
P9	BRIGHTNESS	4527	P31	9029
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.

PINOUT DIAGRAMS

THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section: Design Information And History
Product(s): LP-LED2X
PCB#: M1488 | Rev#: V03 | En : T. Woo | Sheet 3 Of 3
Modified: 2024-11-15 | File: History.SchDoc



U4 NCP1605A
STBY HV
BO NC
VCNTL OVP
FB STDWN
CSIN PFCOK
CSOUT VCC
CT DRV
SYNC GND
SO16 6799
H12
VAX
D4 DO214AC B160-13-F
VC
HV
C25 25V 100U
C27 100N 50V
P cOK
H41
SYNC
H34
DBGND
D21 D1005 CDSF4148
H43
R36 10R0
VRL
Q13 2N7002 7986 SOT-23
R61 4K75
U2 5 LM339D 7659 SO14
U5 3 LM358D 7662
U6 3 LM393D 7661
C5 35V 47U
C1 50V 100N
U5 1 LM358D 7662
7661 LM393D U6 1
7661 LM393D U6 2
7662 LM358D U5 2
H33
D7 CDSF4148
Q4 FDT3612 6977 SOT233
HD3 4213
Q6 TL431A 7720 SOT23
5V
R81 47R5
H31
2033 mV OFF 44.5 C
1956 mV ON 50.1 C
1452 mV MAX 86.3 C
1506 mV ON 82.5 C
1290 mV OFF 97.8 C
U2 4 LM339D 7659 SO14
U2 3 LM339D 7659 SO14
U2 1 LM339D 7659 SO14
U2 2 LM339D 7659 SO14
H24
D1 CDSF4148 D1005
D2 CDSF4148 D1005
D5 SOD123 B0540
Q5 2N7002 7986 SOT-23
U1 UCC25600 7987 SO8
RT GD2 DT GD1 SS OC VCC GND
Q1 MMBT5401 7837 SOT-23
U3 MIC4424 6652 SO8
NC VS NC INA OUTA INB OUTB GND
H21
H23
HD1 H12 H21 H23 H22 H24
HD2 H31 H33 H41 H43 H34
Yorkville
Product(s): LP-LED2X-4X
PCB#: M1632
Rev#: V03
EML Rev#: 01
Sheet 1 Of *
Modified: 2018-04-25
File: M1632.SchDoc
Tmp Rev: V032

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	01-JUNE-2017	V01	.	RELEASED FOR PRODUCTION
2	06-AUG-2017	V02	.	MOVED HEADERS DOWN FOR BETTER PENETRATION OF MOTHER BRD
3	08-FEB-2018	.	9149	CHANGED U4 VALUE TO NCP1605A. R24 IS NOW DNS
4	25-APR-2018	V03	.	REMOVED R24. MOVED C3 AND C8
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

PINOUT DIAGRAMS

THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section:	Design Information And History			
Product(s):	LP-LED2X-4X			
PCB#: M1632	Rev#: V03	EML Rev#: 01	Sheet 1 Of *	
Modified: 2018-04-25	File: History.SchDoc		Tmp Rev: V032	

M1632V03 LP-LED2X-4X

DESIGNATORS

VALUES

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

SMT DEPARTMENT

1. REMOVE ALL PLACEMENT HATS FROM HEADERS BEFORE TRANSFERING TO PCBSA.

PCBSA DEPARTMENT

1. USE PIZZA CUTTER TO SEPERATE BOARDS FROM PANEL.

PCB HARDWARE

SCREWS AND BOLTS	*N TS*	*STANDO S*	*SCELLANEO S*

THIS SHEET CONTAINS SPECIAL PRODUCTION NOTES AND A LIST OF PCB HARDWARE PARTS REQUIRED FOR THE BUILD.

Yorkville

Section: **Assembly Documentation**				
Product(s): **LP-LED2X-4X**				
PCB#: M1632	*Rev#:* V03	*EML Rev#:* 01	*Sheet* 1 *Of* *	
Modified: 2018-04-25	*File:* Assembly.SchDoc		*Tmp Rev:* V032	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	01-JUNE-2017	V01	.	RELEASED FOR PRODUCTION
2	06-AUG-2017	V02	.	MOVED HEADERS DOWN FOR BETTER PENETRATION OF MOTHER BRD
3	08-FEB-2018	.	9149	CHANGED U4 VALUE TO NCP1605A. R24 IS NOW DNS
4	25-APR-2018	V03	.	REMOVED R24. MOVED C3 AND C8
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

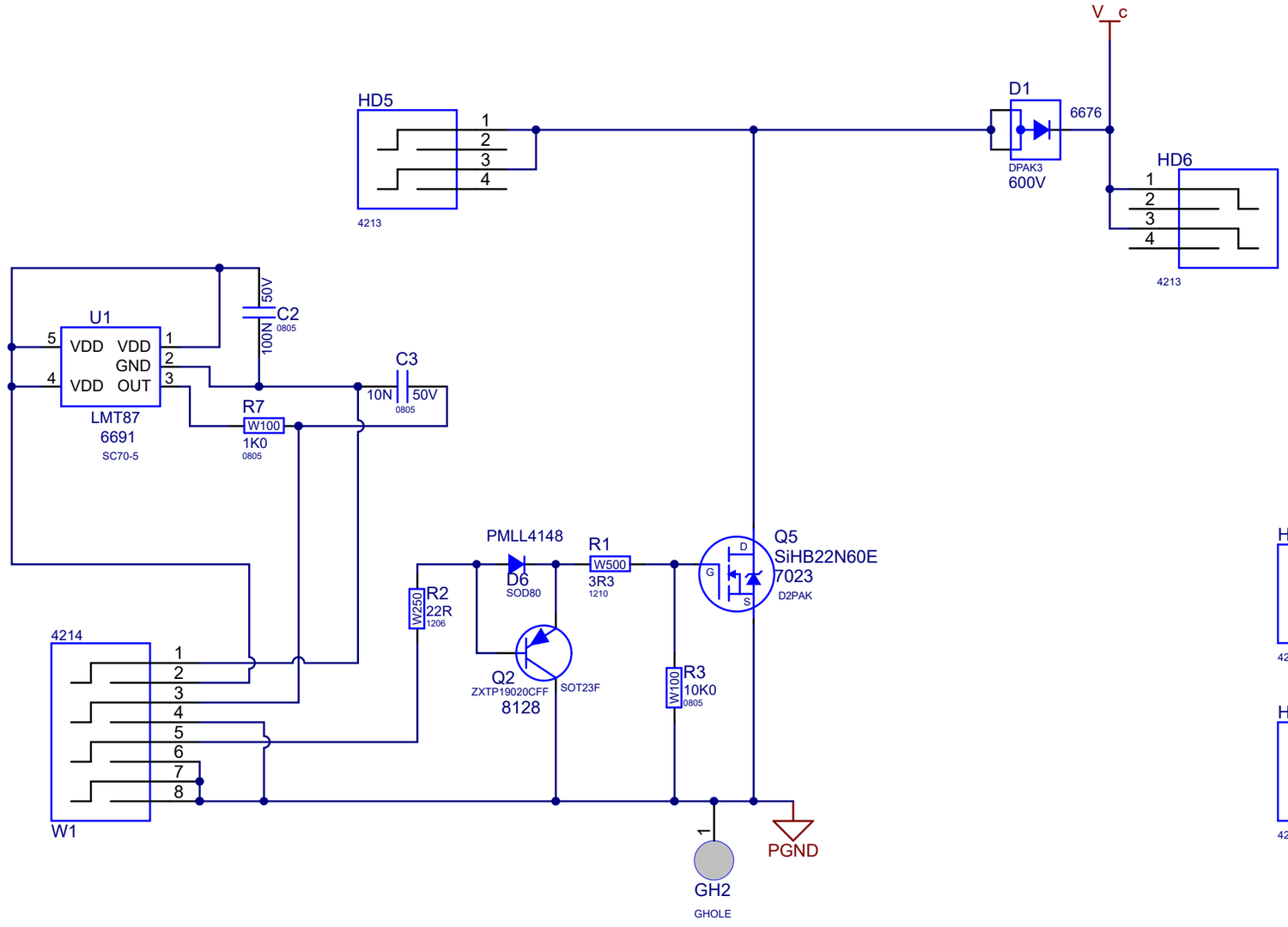
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

PINOUT DIAGRAMS

THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section:	Design Information And History			
Product(s):	LP-LED2X-4X			
PCB#: M1632	Rev#: V03	EML Rev#: 01	Sheet 1 Of *	
Modified: 2018-04-25	File: History.SchDoc		Tmp Rev: V032	



Yorkville

Product(s): **LP-LED2X-4X**				
escription: **S ort Descri tion Of T e Product**				
PCB#: M1636	*Rev#:* V02	*EML Rev#:* XX	*Sheet* 1 *Of* *	
Modified: 2017-08-28	*File:* M1636.SchDoc		*Tmp Rev:* V032	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	01-JUN-2017	V01	.	RELEASED FOR PRODUCTION
2	06-AUG-2017	V02	.	MOVED HEADERS DOWN FOR BETTER PENETRATION OF MOTHER BRD
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

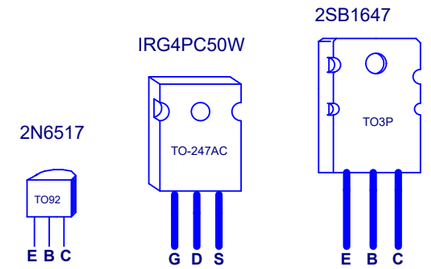
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.

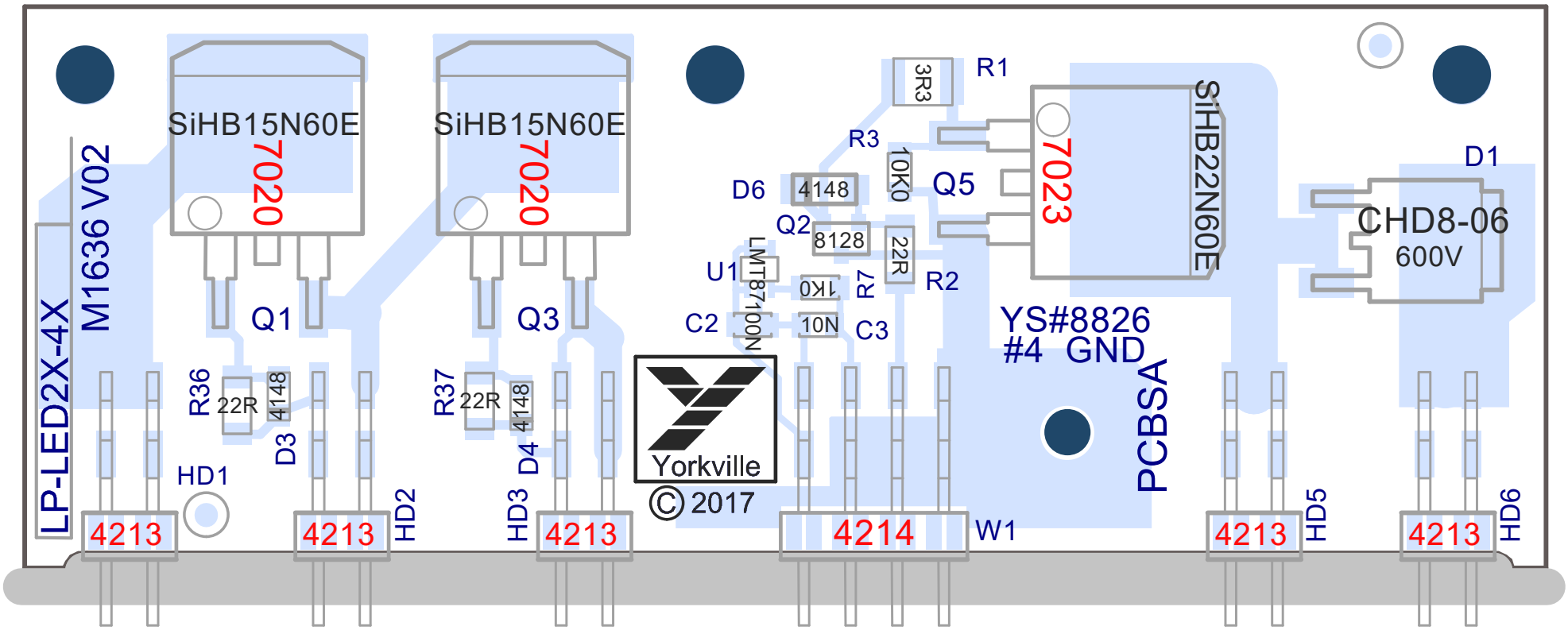
PINOUT DIAGRAMS



THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section:	Design Information And History			
Product(s):	LP-LED2X-4X			
PCB#: M1636	Rev#: V02	EML Rev#: XX	Sheet 1 Of *	
Modified: 2017-08-28	File: History.SchDoc		Tmp Rev: V032	



M1636 V02 LP-LED2X-4X

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

SMT DEPARTMENT

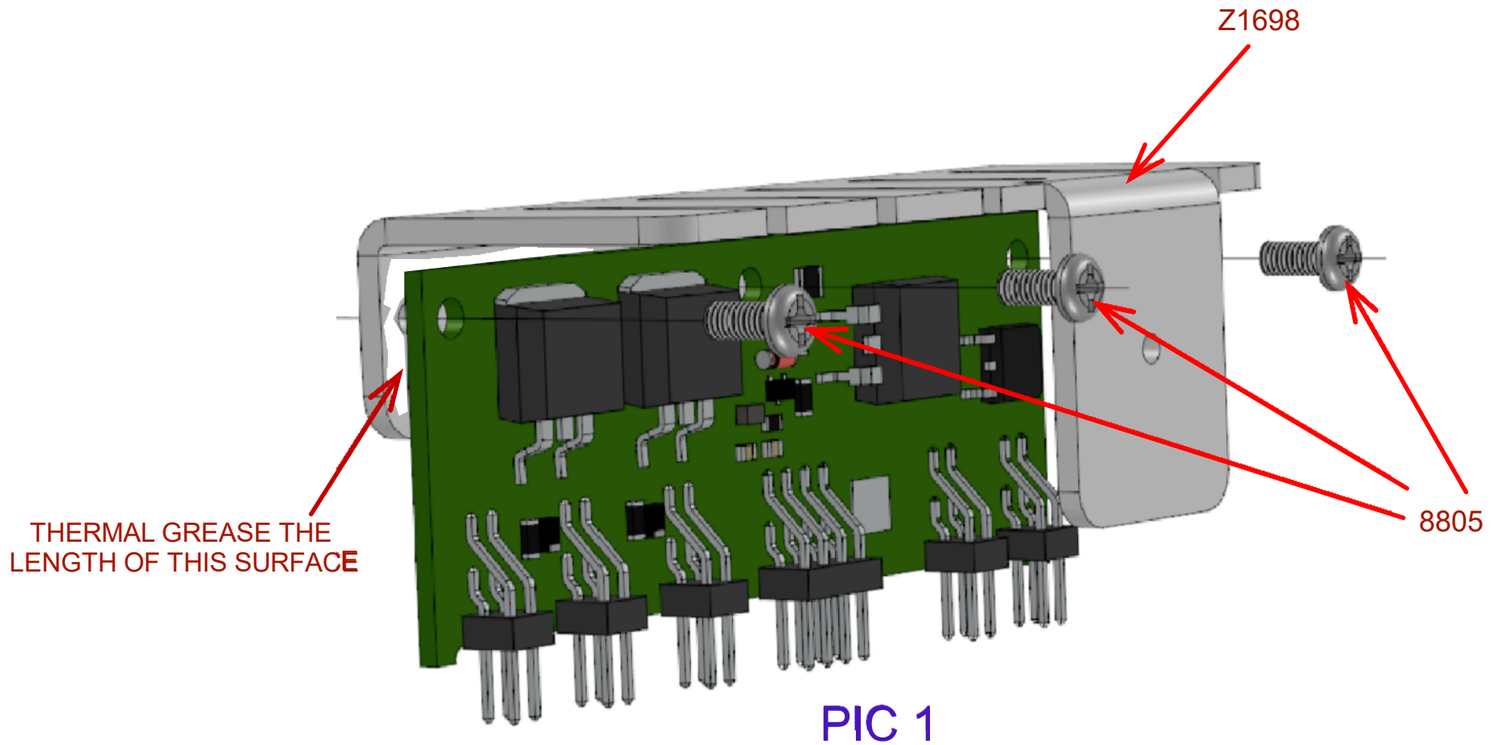
1. REMOVE ALL PLACEMENT HATS FROM HEADERS BEFORE TRANSFERING TO PCBSA.

PCBSA DEPARTMENT

1. BEFORE PIZZA CUTTING FASTEN SCREW AND WASHER (YS# 8826 AND YS# 8925) TO PCB IN AREA INDICATED ON THE PCB AND TO ALL THE PCBS IN THE PANEL.

2. APPLY THERMAL GREASE TO HEATSINK Z1698 IN AREA INDICATED IN PIC 1

3. FASTEN M1636 PCB TO HEATSINK Z1699 USING 3 YS# 8805 SCREWS.



PIC 1

PCB HARDWARE

SCREWS AND BOLTS	WASHER	
		
8805 8805 8805		HS1 Z1698

THIS SHEET CONTAINS SPECIAL PRODUCTION NOTES AND A LIST OF PCB HARDWARE PARTS REQUIRED FOR THE BUILD.

Yorkville	Section: Assembly Documentation			
	Product(s): LP-LED2X-4X			
	PCB#: M1636	Rev#: V02	EML Rev#: XX	Sheet 1 Of *
	Modified: 2017-11-23	File: Assembly.SchDoc		Tmp Rev: V032

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	01-JUN-2017	V01	.	RELEASED FOR PRODUCTION
2	06-AUG-2017	V02	.	MOVED HEADERS DOWN FOR BETTER PENETRATION OF MOTHER BRD
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

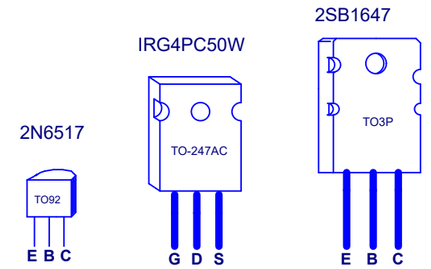
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.

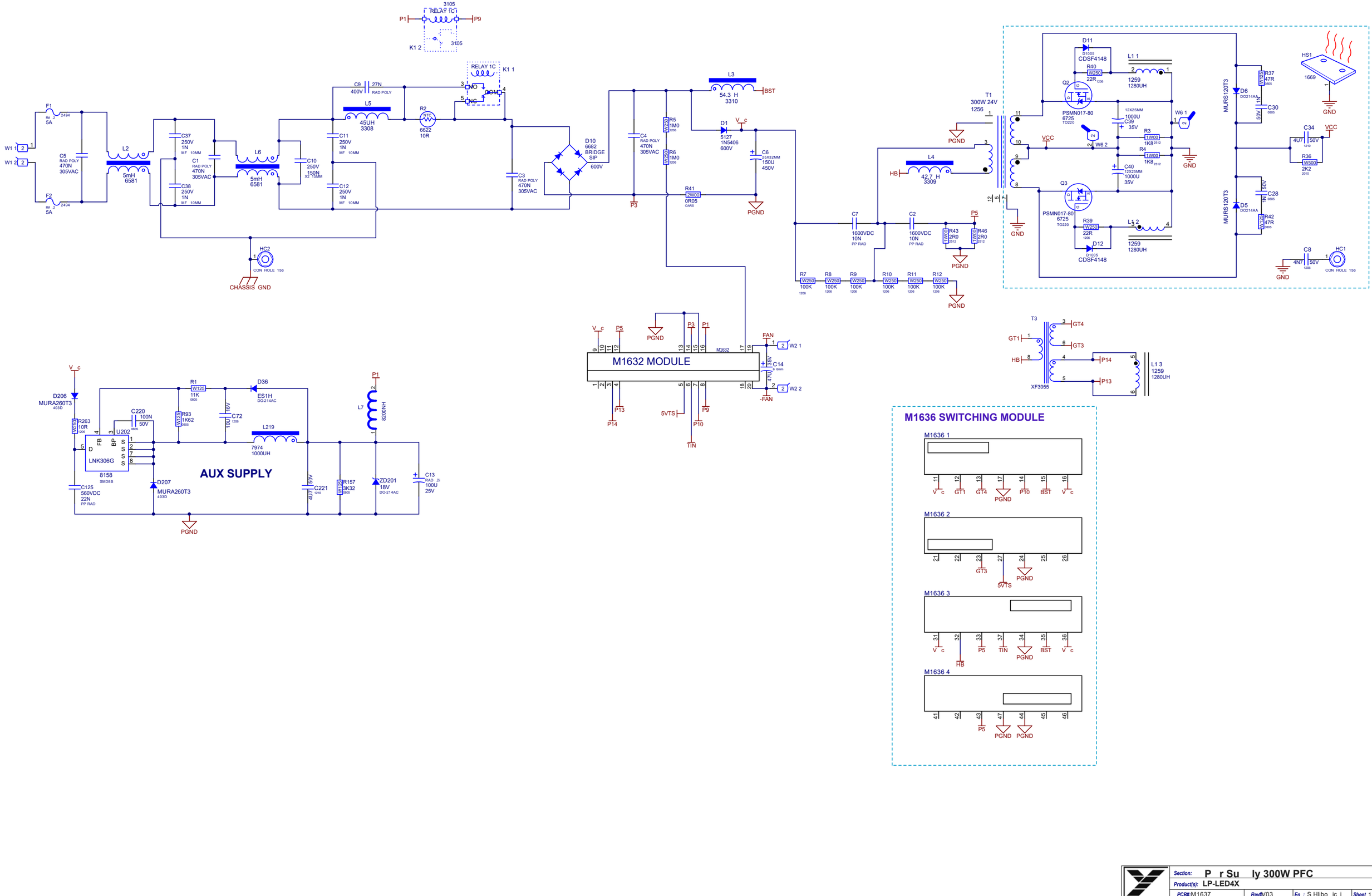
PINOUT DIAGRAMS



THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section:	Design Information And History			
Product(s):	LP-LED2X-4X			
PCB#: M1636	Rev#: V02	EML Rev#: XX	Sheet 1 Of *	
Modified: 2017-11-23	File: History.SchDoc		Tmp Rev: V032	



Yorkville	Section: P r Su ly 300W PFC			
	Product(s): LP-LED4X			
	PCB#: M1637	Rev#: V03	En : S Hlibo ic i	Sheet 1 Of 2
	Modified: 2023-08-29	File: PS M#i .SchDoc		

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	31-MAY-2017	V01	.	RELEASED FOR PRODUCTION
2	07-AUG-2017	V02	.	MOVED HEADERS DOWN FOR BETTER PENETRATION OF MOTHER BRD
3	23-MAY-2018	V03	9187	CHANGE W6 YS# 3538 TO YS# 4164
4	07-SEP-2018	.	9282	ADD MYLAR INSULATOR #Z8801 BETWEEN COIL L3 AND HEATSINK.
5	08-APR-2019	.	9228	ADDED TEST JIG HOLE
6	.	.	9388	ENLARGED HOLES TO ACCOMODATE MODULES M1632 AND M1636
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

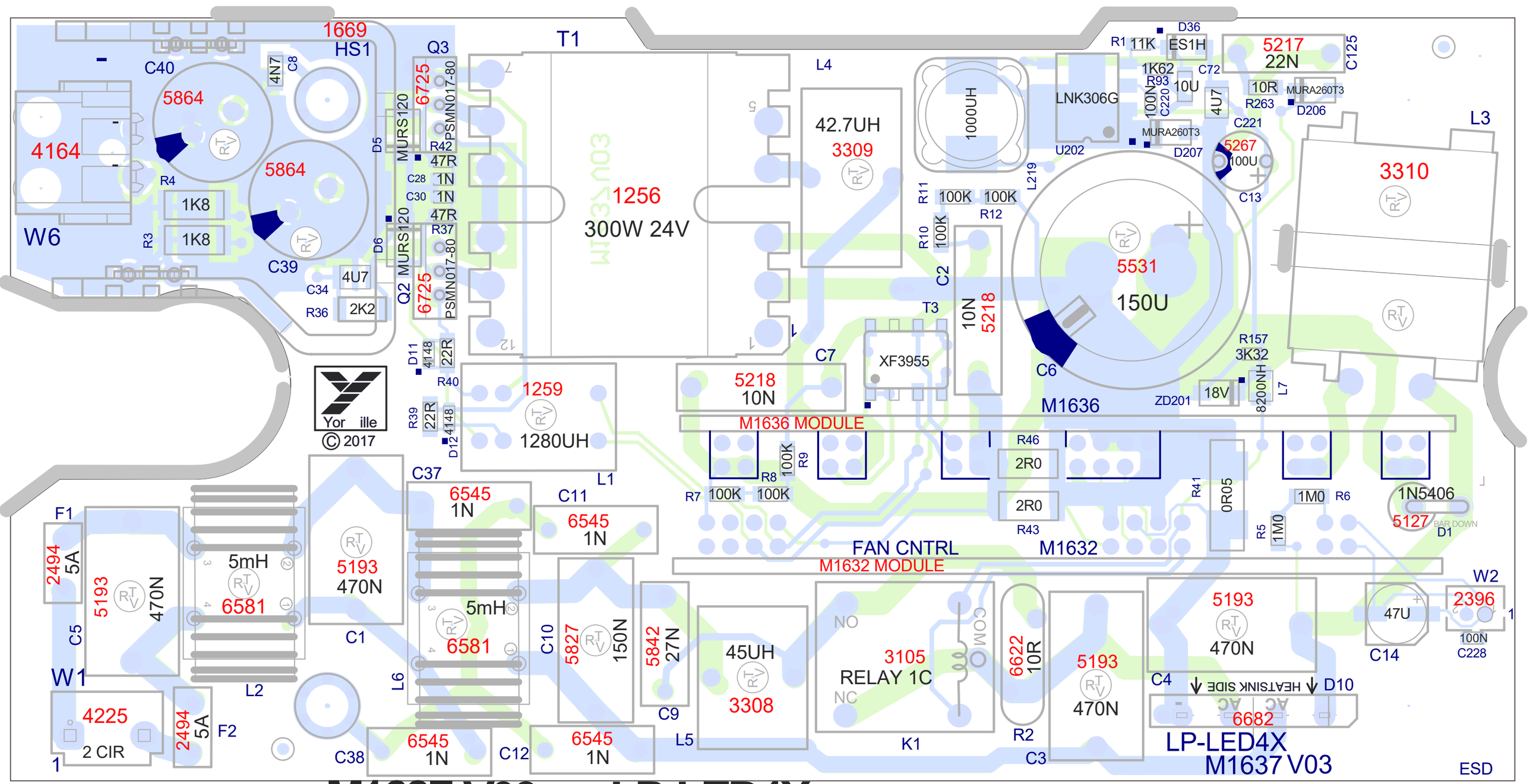
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

POTENTIOMETERS AND KNOBS

PINOUT DIAGRAMS

THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.



M1637 V03 LP-LED4X

SPECIAL PRODUCTION NOTES

PCB ASSEMBLY DOCUMENTATION

1. Cli ch #ll re ire #rts irst.

2. ASSEMBLY A Use #ssembly i A ly therm#l re#se to ro t # b#c o cer#mic #rt 4181 be ore #ssembly o to He#tsi HS1 (1669).
As # #lter #ti e # ly therm#l re#se to b#c o Q2 # Q3 # to o e si e o 4181 cer#mic i s l#tors th#t #ce he#tsi HS1.
- Use Assembly A Ji See Pic 1 # l#ce cer#mic i s l#tor (#4181) i to #re# ro i e .
- Pl#ce He#tsi 1669 o to the hol i he#tsi # #ssembly i li it o er.
- E s re th#t therm#l re#se is # lie to both si es o cer#mic #rt #4181 or to o e si e o tr# istors #s st#te #bo e
- See Pic 2. Pl#ce Q2 # Q3 i to o e i o i so th#t the holes i the tr# isistors #re #li e ith the holes o the cer#mic #rt.
- Pl#ce sho l er #sher 8667 i to holes o tr# isistors.
- Fi #lly # scre s #8742 si electric scre ri er i to sho l er #sher # #ste #ll #rts to he#tsi .

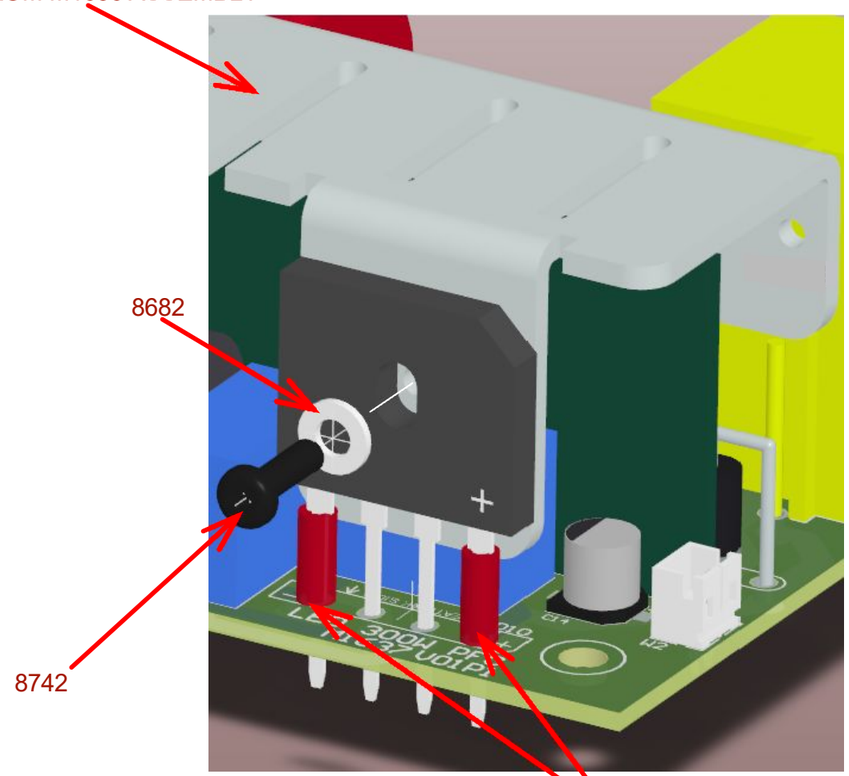
3. Pl#ce C39 # C40 i bo#r be ore l#ci ASSEMBLY A i to the M1637 bo#r .

4. Pl#ce M1632 mo le be ore l#ci M1636 mo le i to M1637.

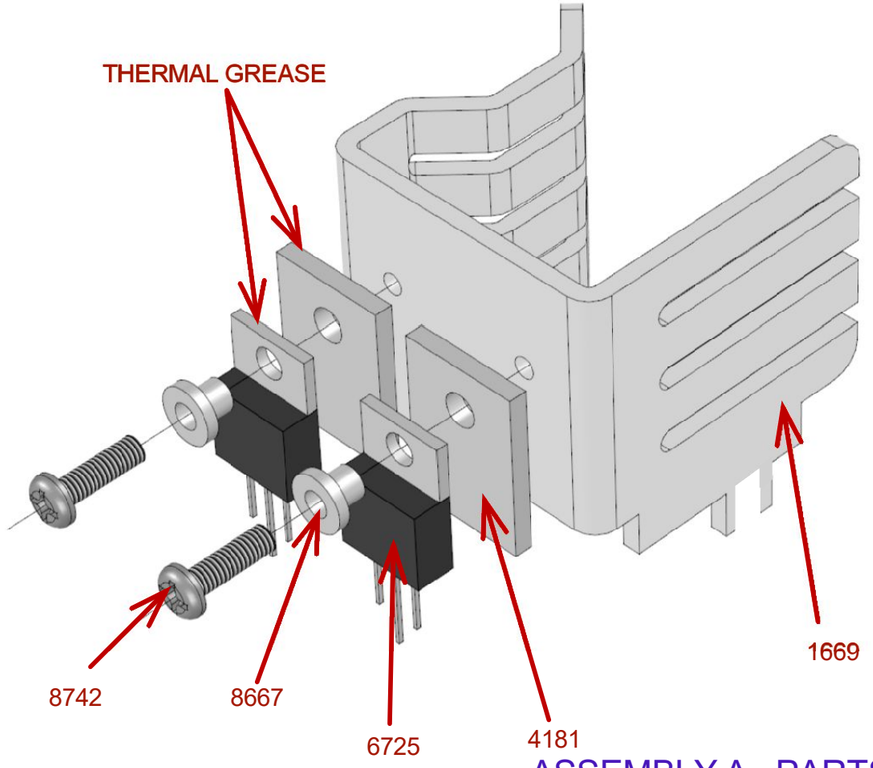
5. ASSEMBLY B A ter l#ci M1636 mo le #ssembly i to bo#r , therm#l re#se b#c o D10. The # # 9067 to e#ch o tsi e le # l#ce i to bo#r . A #sher 8682 to scre 8742 # #ste to M1636 #ssembly.

SEE ASSEMBLY PAGE 2 FOR AFTER WAVE PROCESSING

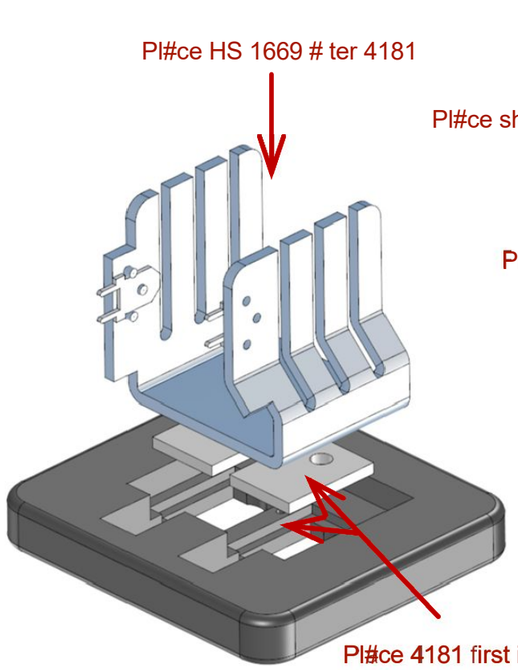
HEATSINK FROM M1636 ASSEMBLY



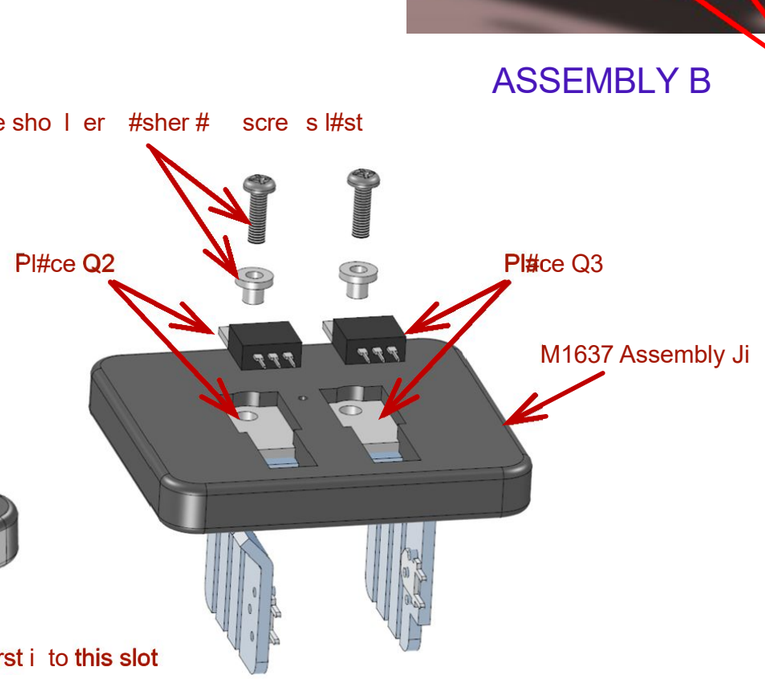
ASSEMBLY B



ASSEMBLY A - PARTS



ASSEMBLY A - PIC 1



ASSEMBLY A - PIC 2

PCB HARDWARE

HS2 THERMAL PAD 4181	HS3 THERMAL PAD 4181			
8667	8667	HW3 9067	HW4 9067	
8682				
8742	8742	8742		

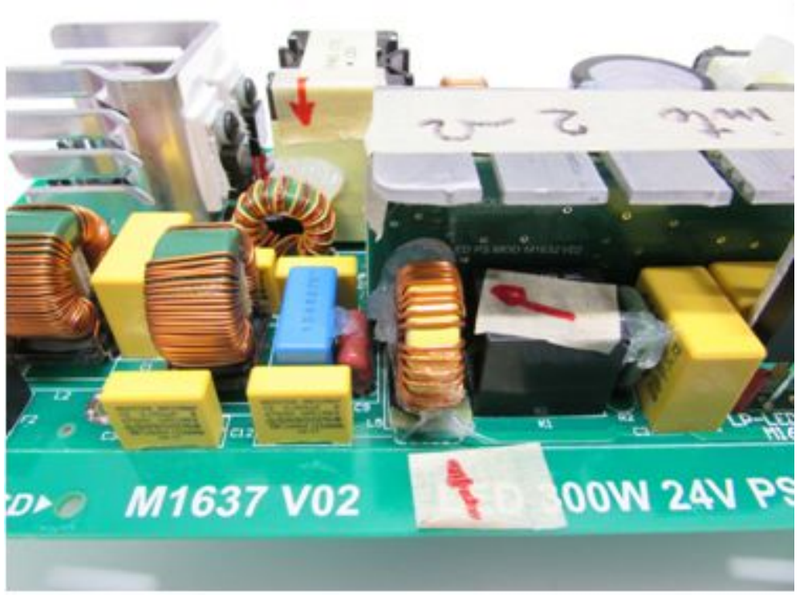
THIS SHEET CONTAINS SPECIAL PRODUCTION NOTES AND A LIST OF PCB HARDWARE PARTS REQUIRED FOR THE BUILD.

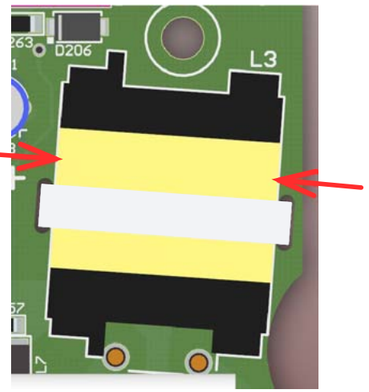
Yorkville

Section: Assembly Before Wa e Instructions				
Product(s): LP-LED4X				
PCB#: M1637	Rev#: V03	En : S Hlibo ic i	Sheet 2 Of 4	
Modified: 2023-08-29	File: Assembly.SchDoc			

ASSEMBLY PAGE 2 - AFTER WAVE

1. Pl#ce tie- r# #ro L3. A ter RTV # tie- r# #re # le e s re th#t #rt is #li e ith le e o tli e be ore RTV sets. See Pic 3.
2. A ly RTV here re ire # bet ee L3 # C6
3. Use Pi # c tter to se #r#te bo#r rom # el, e ce t here tie- r# or L3 i ter eres. A ro ri#te liers m#y be se to remo e #ste #re# o ri ht si e o # el.
4. I st#ll Z8801 myl#r i s l#tor # 8315 W#r i L#bel #s sho .





PIC. 3
Ali L3 ith le e o tli e # e s re th#t it st#ys #li e # ter ti hte i c#ble tie.

Yorkville	Section: AFTER WAVE ASSY INSTRUCTION			
	Product(s): LP-LED4X			
	PCB#: M1637	Rev#: V03	En : S Hlibo ic i	Sheet 3 Of 4
	Modified: 2023-08-30	File: Assembly PostW# e.SchDoc		

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	31-MAY-2017	V01	.	RELEASED FOR PRODUCTION
2	07-AUG-2017	V02	.	MOVED HEADERS DOWN FOR BETTER PENETRATION OF MOTHER BRD
3	23-MAY-2018	V03	9187	CHANGE W6 YS# 3538 TO YS# 4164
4	07-SEP-2018	.	9282	ADD MYLAR INSULATOR #Z8801 BETWEEN COIL L3 AND HEATSINK.
5	08-APR-2019	.	9228	ADDED TEST JIG HOLE
6	.	.	9388	ENLARGED HOLES TO ACCOMODATE MODULES M1632 AND M1636
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

POTENTIOMETERS AND KNOBS

PINOUT DIAGRAMS

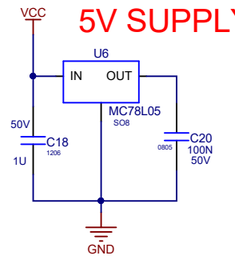
THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

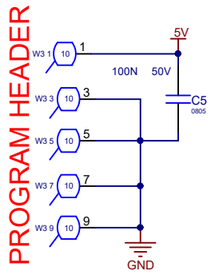
Section: Design Information And History			
Product(s): LP-LED4X			
PCB#: M1637	Rev#: V03	En : S Hlibo ic i	Sheet 1 Of *
Modified: 2023-08-29	File: History.SchDoc		

TOP LEVEL SHEET

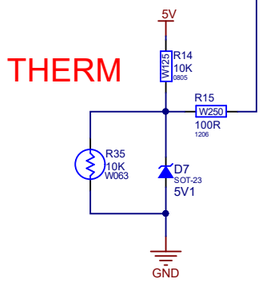
5V SUPPLY



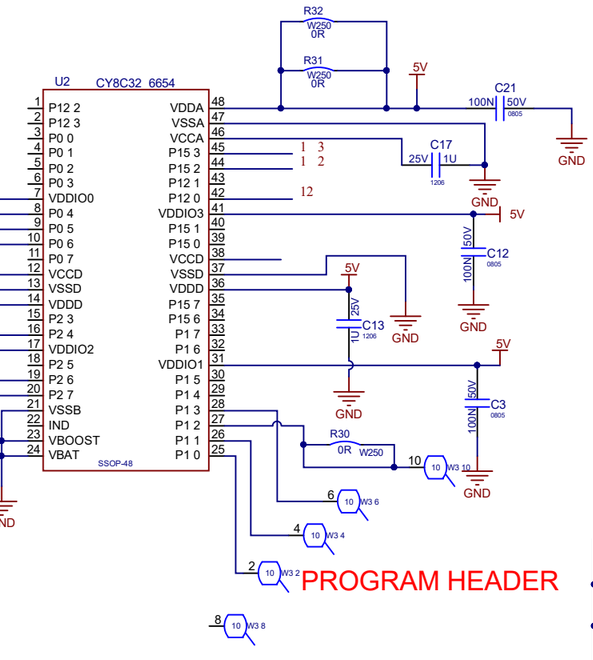
PROGRAM HEADER



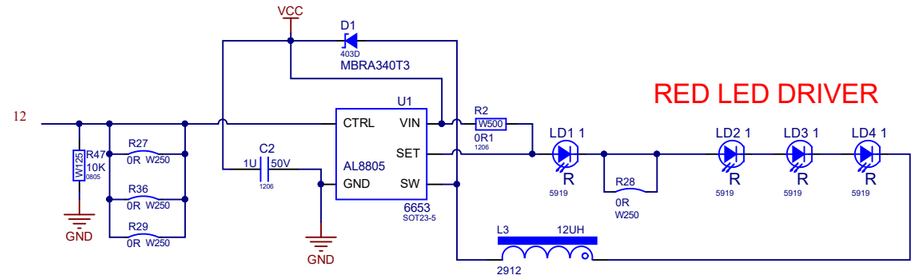
THERM



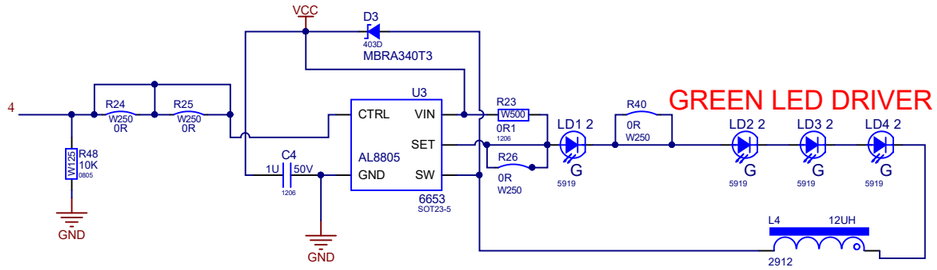
PROGRAM HEADER



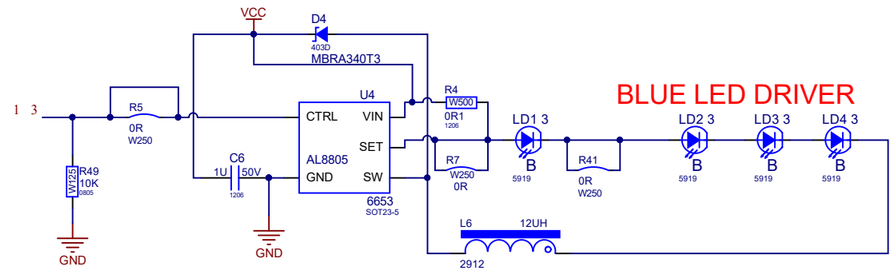
RED LED DRIVER



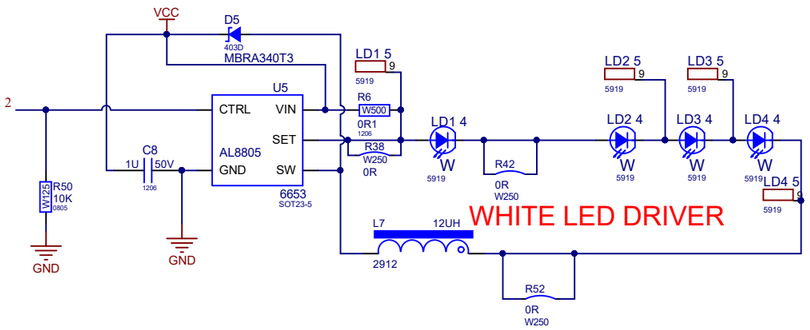
GREEN LED DRIVER



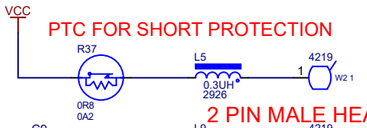
BLUE LED DRIVER



WHITE LED DRIVER

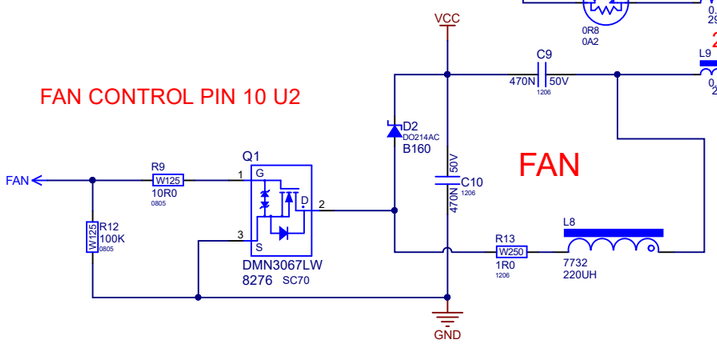


PTC FOR SHORT PROTECTION

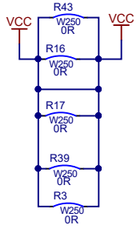


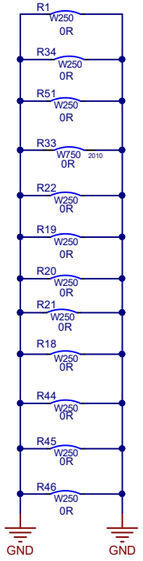
2 PIN MALE HEADER

FAN CONTROL PIN 10 U2

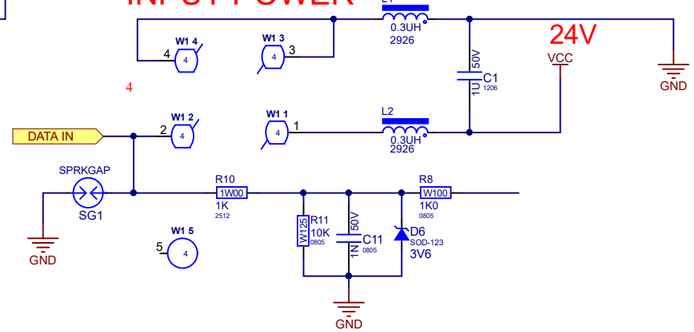


FAN





INPUT POWER



Yorkville	S L A C ON CA A AL W	Product(s):	LP-LED2X/4X/2M		
		escription:	S ort Descri tion Of T e Product		
		PCB#: M2120	Rev#: V01	EML Rev#: XX	Sheet 1 Of 2
		Modified: 2021-11-01	File: LED POD SCH.SchDoc		Tmp Rev: V031

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	26-OCT-2021	V01	.	RELEASE FOR PRODUCTION
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

POTENTIOMETERS AND KNOBS

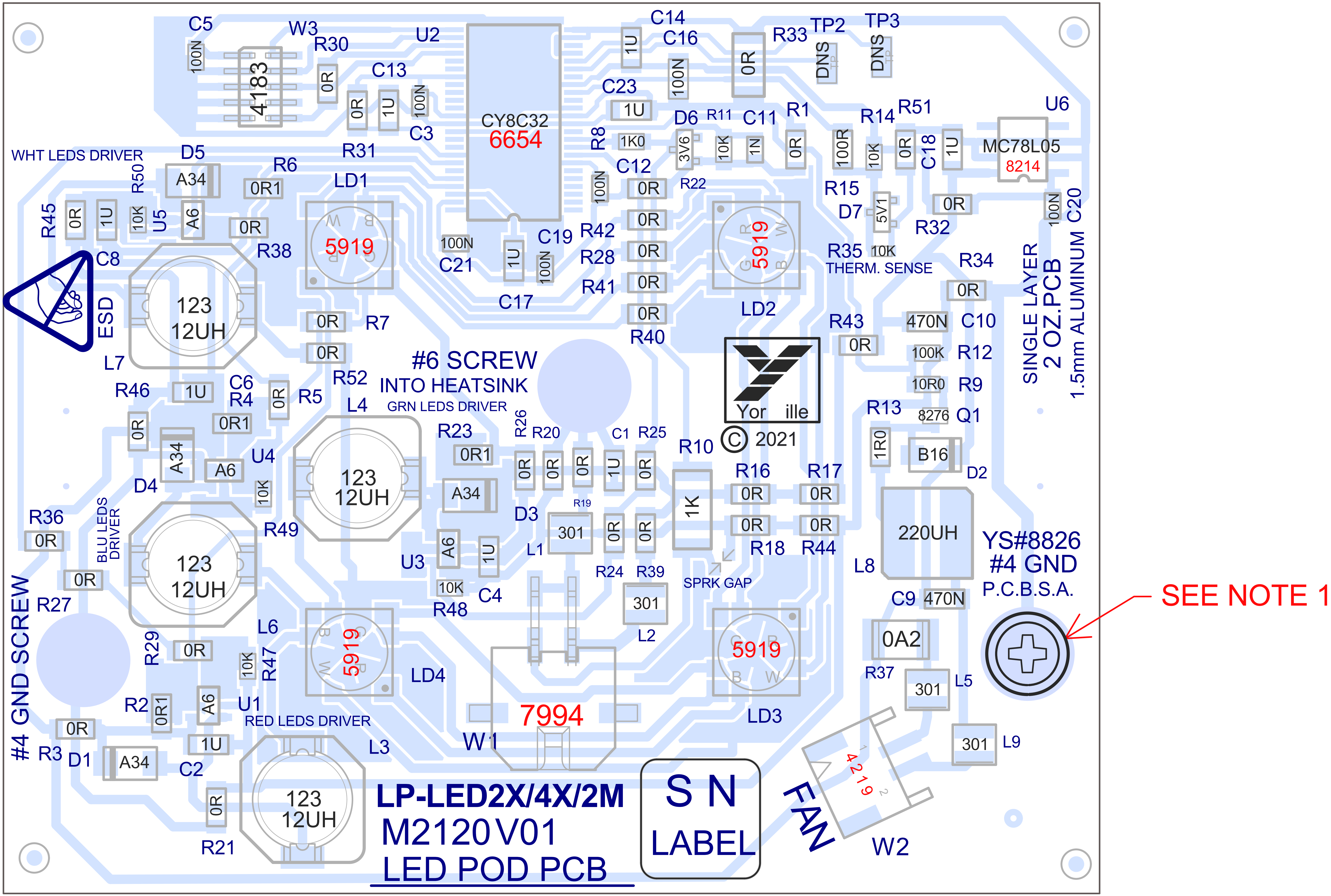
POTENTIOMETERS AND KNOBS			
REF	FUNCTION	POT#	KNOB#
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.

PINOUT DIAGRAMS

THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section:	Design Information And History		
Product(s):	LP-LED2X/4X/2M		
PCB#: M2120	Rev#: V01	EML Rev#: XX	Sheet 3 Of *
Modified: 2021-11-01	File: History.SchDoc		Tmp Rev: V031



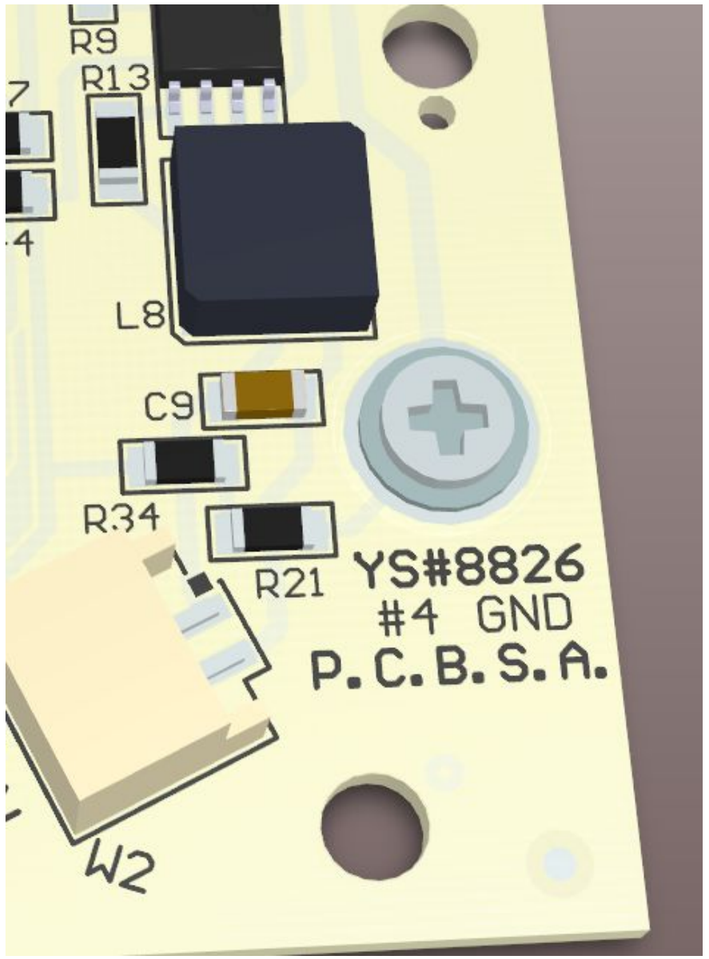
LP-LED2X/4X/2M
M2120V01
LED POD PCB
S N
LABEL
FAN
#6 SCREW
INTO HEATSINK
#4 GND SCREW
SINGLE LAYER
2 OZ.PCB
1.5mm ALUMINUM
YS#8826
#4 GND
P.C.B.S.A.
SEE NOTE 1.
WHT LEDS DRIVER
GRN LEDS DRIVER
BLU LEDS DRIVER
RED LEDS DRIVER
THERM. SENSE
SPRK GAP
ESD
CY8C32
6654
MC78L05
8214
7994
© 2021

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

1. BEFORE PIZZA CUTTING PANEL, FASTEN 6 YS SCREWS #8826 AND WASHERS YS #8925 IN LOCATIONS INDICATED ON THE 6 PCBS IN THE PANEL.

2. THEN PIZZA CUT PANEL ALONG SCORE LINES.



PCB HARDWARE

SCREWS AND BOLTS	N TS	STANDO S	SCELLANEO S

THIS SHEET CONTAINS SPECIAL PRODUCTION NOTES AND A LIST OF PCB HARDWARE PARTS REQUIRED FOR THE BUILD.

Yorkville	Section: Assembly Documentation			
	Product(s): LP-LED2X/4X/2M			
	PCB#: M2120	Rev#: V01	EML Rev#: XX	Sheet 2 Of 14
	Modified: 2021-11-01	File: Assembly.SchDoc		Tmp Rev: V031

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	26-OCT-2021	V01	.	RELEASE FOR PRODUCTION
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

POTENTIOMETERS AND KNOBS

POTENTIOMETERS AND KNOBS			
REF	FUNCTION	POT#	KNOB#
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.

PINOUT DIAGRAMS

THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section:	Design Information And History		
Product(s):	LP-LED2X/4X/2M		
PCB#: M2120	Rev#: V01	EML Rev#: XX	Sheet 3 Of *
Modified: 2021-11-01	File: History.SchDoc		Tmp Rev: V031

TOP LEVEL SHEET

P2 FUNCTION
P1 CH #1
P5 CH #2
P3 CH #3
P4 CH #4
COM
ROT 4969
3V3
C1 1U 1206 25V
DGGND

BLUE PROGRAM HEADER
3V3BLU
C29 1U 1206 25V
DGNDBLU
W2 1
W2 3
W2 5
W2 7
W2 9

FROM XLR CONTROL
EXTERIA STATE SENCE
UART0 RX
UART0 TX

TO DEMULTIPLEXER
UART1 TX
TO DIGITAL POT U9
SPI1 SOUT
SPI1 SCK

U1
MK40DX128VLL7
6675
LQFP-100

3V3
C2 1U 1206 25V
C3 0805 100N 50V
DGGND

ANALOG AUDIO
AN0
AN1

3V3
L6 8200NH
GND
POTGND
3V3POT
C54 0805 10U 10V
C4 0805 100N 50V

FROM DMX INPUTS
UART2 RX
SWD DIO
SWD CLK
RESET

C44 0805 100N 50V
C45 1206 1U 25V

LED LEVEL
P9 1
4527
ROT H
P9 2
TO DEMULTIPLEXER
PTB19
PTB18

R15 W125 47R 0805
R14 W125 47R 0805
UART3 TX
UART3 RX
BLU RX
BLU TX
3V3 INBLU
W2 10 BLU RESET
TP7
TP6
TP5
GND TEST PT TO START PCB TESTING
SPI1 PCS1
TO DIGITAL POT U8

U4
CYBLE-012011-00
14X19mm SMT Mo le
6793
XRES

PROGRAM HEADER
W10 1
W10 2
W10 3
W10 4
W10 5
W10 6
W10 7
W10 8
W10 9
W10 10

C43 0805 100N 50V
C48 1206 1U 25V
NetU1_31
S1
12 POS DIP SW
4193

L1 600R F0805
C28 0805 100N 50V
C27 1206 1U 25V
C32 0805 100N 50V
C33 1206 1U 25V

3.3V SUPPLY FOR U1 DSP STEP DOWN CONVERTER
24V
U2
MC33063A
VCC
SW C
DRV C
ISEN
SW E
TCAP
INV
GND
SO8
7719
C55 ELE 8mm 100U 25V
R1 2R4 1206
R2 W125 3K01 0805
R3 W125 1K21 0805
C5 0805 330P 50V
D1 DO214AC B160
L7 470UH 2927
C6 ELE 8mm 680U 6V3
C62 Elec 10U 16V
C42 0805 100N 50V

U16
LP2950-33
IN
GND
OUT
TO92
7012
C71 0805 100N 50V
POWER LED
R55 W250 100R 1206
LD1 GRN 6408
HC1 CON HOLE 125
HC2 CON HOLE 125
TP2
TP1
TEST PINS

By #ss se For re io s Processor
C47 0805 100N 50V
C46 1206 1U 25V
R68 0A2 DNS
2 PIN MALE HEADER
C11 1206 470N 50V DNS
R37 0R W250 DNS
R9 W125 10R0 0805 DNS
Q1 SOT323
D14 DO214AC B160 DNS
C10 1206 470N 50V DNS
R12 W125 100K 0805 DNS
R13 W250 1R0 1206 DNS
L8 7974 1000UH DNS
FTM1 CH0
FAN
NEW FAN CONTROL CIRCUIT

Yorkville	Section: CPU/BLUETOOTH CNTRL FOR LEDS			
	Product(s): LP-LED4X			
	PCB#: M2122	Rev#: V01	En : T Woo	Sheet 1 Of 3
	Modified: 2022-03-15	File: To Sheet.SchDoc		

AUDIO IN
J1
1 4i JCK 3918 6
SG1 SPRKGAP
SG2 SPRKGAP
R39 9482 PTC 20
R71 1K0
R72 4K7
R73 1K0
C30 100N
C37 100N
D2 DO-214ACBI SMAJ150CA
D7 DO-214ACBI SMAJ150CA
D8 DO-214ACBI SMAJ150CA
R48 82K5
R47 82K5
C56 100P
C57 100P
C26 22P
R33 619K
R35 619K
R34 4K02
R36 4K02
U7 3 TLV2474 7946
U7 4 TLV2474 7946
R74 1K0
C35 22P
R38 2K0
C38 33U
C39 33U
C40 33U
R40 2K0
R41 100R
AN1
R42 100R
R43 100R
U8 1 7945 MAX5414EUD
TSSOP-14
HA WA LA HB WB LB DIN SCLK CS GND VDD
SPI1 SOUT
SPI1 PCS1
SPI1 SCK
SPI1 PCS1
C50 100N
U8 2 MAX5414EUD 7945 TSSOP-14
N.C.3 N.C.2 N.C.1
U7 1 TLV2474 7946
C34 22P
C49 100N
7946 TLV2474 U7 5
R30 1K0
R31 2K0
R32 2K0
C25 1N5
C31 1N5
C36 1N5
U7 2 TLV2474 7946
R29 100R
AN0
TP4
TP3
FROM MICRO U1
PTB19
PTB18
PIN 1 OF MICRO
UART1 TX
U6 SN74AHC138 7948 SOIC-D
VCC GND
A B C G2A G2B G1 Y0 Y1 Y2 Y3 Y4 Y5 Y6 Y7
C53 100N
U14 1 U14 3 TLV2316 6679 SO8
R75 20K
R76 10K00
R77 20K
R81 10K00
C63 10U
C64 10U
C69 100N
C70 100N
U15 SPDT 6677 SOT23-6
VCC S GND A B1 B2
R78 1M0
W1 2 W3 2 W1 1
N23 N24 N25
R46 100R
R8 2K0
C51 100N
10N C72
MICGND
U13 1 TLV2316 6679 SO8
U13 2 U13 3 TLV2316 6679 SO8
MIC2_3V3
3V3_INBLU
MIC_3V3
R45 100R
R79 100R
D12 SOD-323 200V
MIC 2386
C73 100N
C52 100N
R22 1K0
R23 1K0
C65 10U
C66 10U
R93 1K0
EXTERIA STATE SENCE
UART0 RX
U9 1 LM393D 7661
U9 2 LM393D 7661
U9 3 LM393D 7661
R44 10K
R70 4K7
R49 47K5
C68 100N
U10 5 SN74LVTH125 7959 SO14
C67 100N
U10 2 U10 3 U10 4 SN74LVTH125 7959 SOIC14
C61 100N
7946 TLV2474 U5 5
R17 1K0
R11 2K0
C16 1N
C17 1N
U5 3 TLV2474 7946
R86 470R
R16 1K0
POD#1
R18 1K0
R19 2K0
C19 1N
C18 1N
112 H
U5 4 TLV2474 7946
R87 470R
R20 1K0
POD#2
R21 1K0
R82 2K0
C20 1N
C21 1N
U5 1 TLV2474 7946
R88 470R
R83 1K0
POD#3
R24 1K0
R25 2K0
C22 1N
C23 1N
U5 2 TLV2474 7946
R89 470R
R26 1K0
POD#4
3V3
GND
DGGND
AGND
W4 1
W5 1
W6 1
W7 1
N17
N18
N27
N28
FROM CONTROLLER
J2 1
XLR FEMALE 3922
J2 2
XLR FEMALE 3922
SG3 SPRKGAP
SG4 SPRKGAP
D5 DO214AC B160
R80 680R
R69 680R
D6 DO-214AC 10V0
C41
24V
R44 10K
R70 4K7
R49 47K5
U9 1 LM393D 7661
EXTERIA STATE SENCE
UART0 RX
J3
XLR MALE 3923
LINK
SG5 SPRKGAP
R66 0R8 0A2
R57 39R
R56 39R
Q2 DMN3067LW 8276 SOT323
L3 L4 L5 Ferrite
R51 100R
R50 10K
SOIC14 7959 SN74LVTH125 U10 1
UART0 TX
R4 3R3 1210
R10 1K8 2512 D2PAK
Q3 MJB42C 7843
R5 47K 47K
R6 1K5
SOT23 7805 Q4 MMBT3906LT1
R59 10K
R58 10K
R64 10K
D3 SOT-23 6V2
Q5 MMBT3904 7838 SOT-23
C12 47U 6.6mm
D13 DO214AC B160
J6 1
FROM DMX
XLR FEMALE 3922
J6 2
XLR FEMALE 3922
J7
XLR MALE 3923
LINK
SG6 SPRKGAP
SG7 SPRKGAP
R53 1K
R54 1K
R65 470R
R67 470R
U11 MAX3280E 6658 SOT23-5
A B VCC GND RO
R52 100R
UART2 RX
D4 D9 D10 D11 SOD-123 MMSZ15T1G 15V0
C60
C59 100N
ON LITTLE BREAKAWAY
DGNDBLU MICGND
GROUND TIES
AGND DGGND GND
W9 1 W9 2
5021
C24 100N
YS 4164
YS 4194
4 POS 3MM HEADER
W4 2 W4 3 W4 4 W5 2 W5 3 W5 4 W6 2 W6 3 W6 4 W7 2 W7 3 W7 4
N22

Yorkville

Section: INPUT/OUTPUT
Product(s): LP-LED4X
PCB#: M2122 | Rev#: V01 | En : T Woo | Sheet 2 Of 3
Modified: 2022-03-15 | File: INPUT-OUTPUT.SchDoc

CHANGE HISTORY

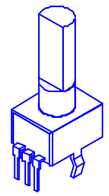
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	09-MAR-2022	V01	.	RELEASED FOR PRODUCTION
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

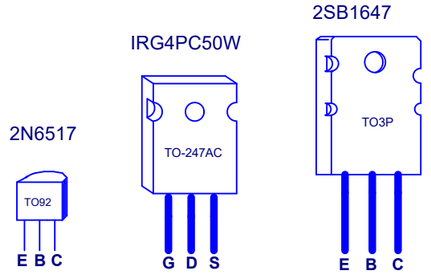
POTENTIOMETERS AND KNOBS

POTENTIOMETERS AND KNOBS			
REF	FUNCTION	POT#	KNOB#
P1	CH 1	4969	8653C
P2	FUNCTION	4969	8653C
P3	CH 3	4969	8653C
P4	CH 1	4969	8653C
P5	CH 2	4969	8653C
P9	BRIGHTNESS	4527	8653C
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.

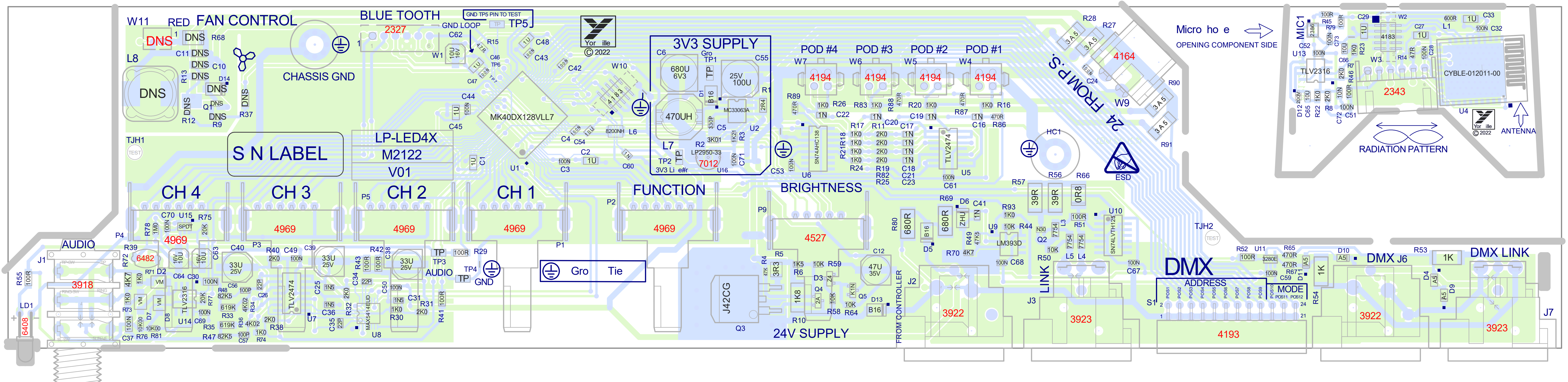


STYLE P32

PINOUT DIAGRAMS



THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.



FAN CONTROL
BLUE TOOTH
GND TP5 PIN TO TEST
GND LOOP
TP5
CHASSIS GND
3V3 SUPPLY
POD #4
POD #3
POD #2
POD #1
MK40DX128VLL7
S N LABEL
LP-LED4X
M2122
V01
CH 4
CH 3
CH 2
CH 1
FUNCTION
BRIGHTNESS
AUDIO
24V SUPPLY
FROM CONTROLLER
LINK
DMX
ADDRESS
MODE
DMX J6
DMX LINK
ESD
24 FROM P.S.
OPENING COMPONENT SIDE
RADIATION PATTERN
ANTENNA
CYBLE-012011-00
© 2022

SPECIAL PRODUCTION NOTES

1. E s re All ots # s itches #re l sh mo te to the cb be ore se i cb thro h the # e.

2. Use i # c tter, here it is ossible to o so, to remo e bo#r s rom # el.

PCB HARDWARE

SCREWS AND BOLTS	NUTS	STANDOFFS	MISCELLANEOUS

THIS SHEET CONTAINS SPECIAL PRODUCTION NOTES AND A LIST OF PCB HARDWARE PARTS REQUIRED FOR THE BUILD.

CHANGE HISTORY

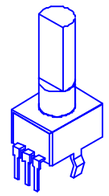
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	09-MAR-2022	V01	.	RELEASED FOR PRODUCTION
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

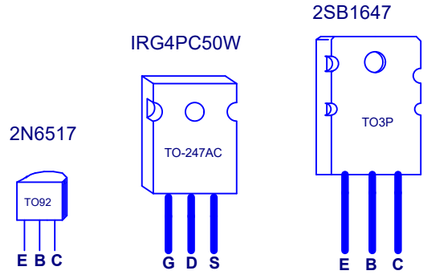
POTENTIOMETERS AND KNOBS

POTENTIOMETERS AND KNOBS			
REF	FUNCTION	POT#	KNOB#
P1	CH 1	4969	8653C
P2	FUNCTION	4969	8653C
P3	CH 3	4969	8653C
P4	CH 1	4969	8653C
P5	CH 2	4969	8653C
P9	BRIGHTNESS	4527	8653C
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.



STYLE P32

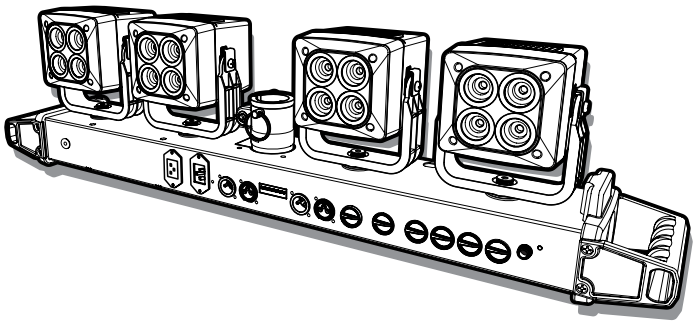
PINOUT DIAGRAMS



THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

LP-LED^{X}/PRO

Stage Lighting Lightbar



*** LP-LED2X not shown**
(LP-LED2X has 2 pods instead of 4)

The LP-LED_X/PRO may be used in several ways:

1. Stand alone, no separate controller is required
2. Linked to other LP-LED_X/PRO systems with one as primary
3. With a Yorkville Lighting Controller.
4. With a DMX™ Controller.
5. Bluetooth Smart™ device.

Function Control & Stand Alone Operation

This control sets the basic operation of the LP-LED_X/PRO, activating Bluetooth™ or a choosing manual setting. When the LP-LED_X/PRO is operated stand alone, there are a number of modes which are set by the Function control.

Bluetooth™ Smart Device

You must install the Yorkville LP Control App on your smart device prior to use. The App is available on the Apple App Store and the Google Play Store.

To connect, open the dedicated app and tap on the “Add Bar” button at the bottom of the screen. All unsecured bars in range will automatically be connected and locked to your device. Device locks are cleared when the light bars are powered off, or can be cleared at any time within the app.

Brightness Control

This control varies the brightness of all pods in any function position in any operational mode. Each unit’s brightness level sets the maximum brightness for that unit regardless of how the unit(s) are controlled: Yorkville Lighting Controller, DMX™ Controller, Bluetooth Smart™ device.

Lamp Color Control

Any pod can be turned off by setting the Color control to the off position. There are 31 colors and color choices which begin with red, followed by blue, white, amber yellow and finally green. There are also several choices of color temperature for white.

Color Sound to Light

The LP-LED_X/PRO has sophisticated audio to light (color organ) circuitry. The automatic level circuitry allows it to be used with signals from weak line levels up to strong loudspeaker levels. The LP-LED_X/PRO has an internal microphone with automatic sensitivity and triggers the same sophisticated audio to light (color organ) circuitry. It is active if the audio input jack is not used.

Using Multiple LP-LED_X/PROs

Multiple LP-LED_X/PRO units may be linked with a standard 3-pin XLR cable connected through the In and Out jacks (Multiple LP-LED_X/PRO units may be linked with a standard 3-pin XLR cable connected through the In and Out jacks (NOT the DMX In/Out jacks). Downstream units operate identically to the first unit. When the first unit in the chain is not receiving a control signal its controls are active. Each unit’s brightness level sets the maximum brightness for that unit.

Yorkville Sound LP-608 Lighting Controller

The Color control can be used to select the color of each pod or if the Color control is set to off then the LP-608 intensity control becomes the color control (including off) but the intensity is not controllable.

Note: Operation with the the legacy LP-608 controller requires a ‘gender reversing’ adapter in line with the XLR cable. This was done to prevent accidental connection to a DMX™ controller possibly causing damage.

DMX™ Internally Integrated Processing

Set unit to off position to in order to access DMX. Specific operating instructions for the DMX™ modes are available in the specific DMX™ controller operation manual.

To get the full Owner’s Manual please visit our website at
http://www.yorkville.com/manuals/ or, if you need a printed version call **905-837-8777**

REAL Gear.
REAL People.

Canada Voice: 905-837-8481
Fax: 905-839-5776

U.S.A. Voice: 716-297-2920
Fax: 716-297-3689

www.yorkville.com

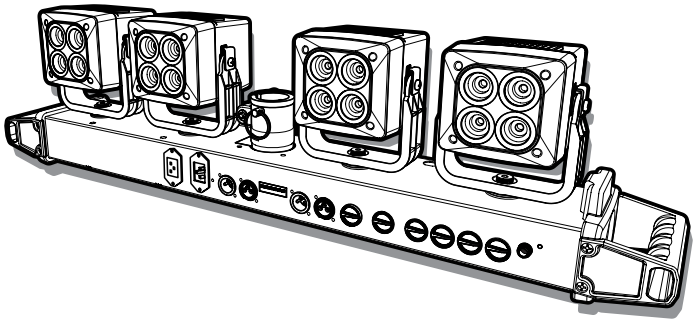
Yorkville Sound
550 Granite Court
Pickering, Ontario
L1W-3Y8 CANADA

Yorkville Sound Inc.
4625 Witmer Industrial Estate
Niagara Falls, New York
14305 USA

Printed In CANADA
QuickStart-LP-LED_X-00-2v0 • YS#QSTART-LED • March 5, 2025

LP-LED^{X}/PRO

Stage Lighting Lightbar



* **LP-LED2X non illustré**
(LP-LED2X a 2 pods au lieu de 4)

Le LP-LED_X/PRO peut être utilisé de plusieurs façons:

1. Autonome , aucun contrôleur séparé n'est nécessaire
2. Lié à d'autres LP-LED_X/PRO dont un, comme contrôleur principal
3. Avec un contrôleur Yorkville
4. Avec un contrôleur DMX™
5. Dispositif Bluetooth Smart™

Commande de Fonction et Fonctionnement Autonome

Cette commande définit le fonctionnement de base du LP-LED_X/PRO, en activant Bluetooth™ ou en choisissant un réglage manuel. Lorsque le LP-LED_X/PRO fonctionne de manière autonome, un certain nombre de modes sont définis par la commande de fonction.

Dispositif Intelligent Bluetooth ™

Avant de l'utiliser vous devez installer l'application Yorkville LP Control sur votre smart device. L'application est disponible sur l'App Store d'Apple et le Google Play Store.

Pour vous connecter, ouvrez l'application dédiée et appuyez sur le bouton « Ajouter une barre » en bas de l'écran. Toutes les barres non sécurisées à portée seront automatiquement connectées et verrouillées à votre appareil. Les verrouillages de l'appareil sont effacés lorsque les barres lumineuses sont éteintes ou peuvent être effacés à tout moment dans l'application.

Réglage de la Luminosité

Cette commande fait varier la luminosité de tous les modules dans n'importe quelle position de fonction et dans n'importe quel mode de fonctionnement. Le niveau de luminosité de chaque unité définit la luminosité maximale de cette unité, quelle que soit la façon dont les unités sont contrôlées : contrôleur d'éclairage Yorkville, contrôleur DMX™, appareil Bluetooth Smart™.

Contrôle de la Couleur de Lampe

Tout pod d'éclairage peut être désactivé en réglant la commande de couleur sur la position d'arrêt. Il y a 31 couleurs et les choix de couleurs commencent par le rouge, suivis par le bleu, le blanc, le jaune ambre et enfin le vert. Il existe également plusieurs choix de température de couleur pour le blanc.

Couleur du Son à la Lumière

Le LP-LED_X/PRO dispose d'un circuit sophistiqué audio à lumière (color organ). Le circuit de niveau automatique permet d'être utilisé avec des signaux provenant de niveaux de ligne faibles jusqu'à des niveaux de haut-parleur intenses. Le LP-LED_X/PRO dispose d'un microphone interne avec sensibilité automatique et déclenche le même circuit audio sophistiqué pour éclairer (orgue couleur). Il est actif si la prise d'entrée audio n'est pas utilisée.

Utilisation de LP-LED4X Multiples

Plusieurs unités LP-LED_X/PRO peuvent être reliées avec un câble XLR standard à 3 broches connecté via les prises d'entrée et de sortie (Plusieurs unités LP-LED_X/PRO peuvent être liées avec un câble XLR standard à 3 broches connecté via les prises d'entrée et de sortie. (PAS les prises DMX In/Out). Les unités en aval fonctionnent de manière identique à la première unité. Lorsque la première unité de la chaîne ne reçoit pas de signal de commande, ses commandes sont actives. Le niveau de luminosité de chaque unité définit la luminosité maximale de cette unité.

Contrôleurs d'éclairage LP-608 de Yorkville Sound

Le contrôle de couleur peut être utilisé pour sélectionner la couleur de chaque pod ou si la commande de couleur est désactivée, le contrôle d'intensité du contrôleur devient le contrôle de couleur (y compris la position OFF) mais l'intensité n'est pas contrôlable.

Remarque: Le fonctionnement avec le contrôleur LP-608 nécessitera un adaptateur d'inversion en ligne avec le câble XLR. Cela a été fait pour empêcher une connexion accidentelle à un contrôleur DMX™ qui pourrait causer des dommages.

Traitement intégral Intégré DMX ™

Mettez l'appareil en position off pour accéder au DMX. Des instructions d'utilisation spécifiques pour les modes DMX ™ sont disponibles dans le manuel d'utilisation spécifique du contrôleur DMX ™.

Pour obtenir le manuel de utilisateur visitez notre site Web à **http://www.yorkville.com/manuals/**
ou, si vous avez besoin d'une version imprimée appelez-nous au **905-837-8777**

REAL Gear.
REAL People.

Canada Voice: 905-837-8431
Fax: 905-839-5776

U.S.A. Voice: 716-297-2920
Fax: 716-297-3689

www.yorkville.com

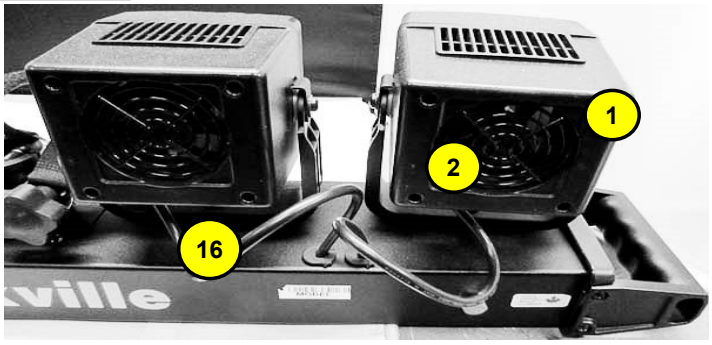
Yorkville Sound
550 Granite Court
Pickering, Ontario
L1W-3Y8 CANADA

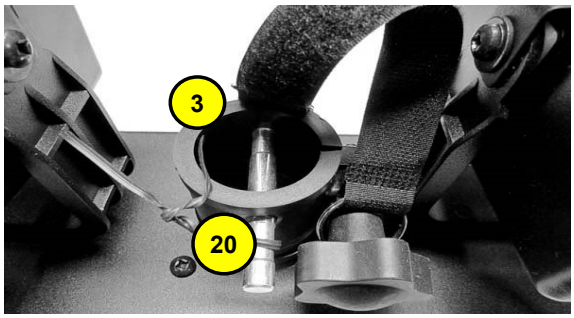
Yorkville Sound Inc.
4625 Witmer Industrial Estate
Niagara Falls, New York
14305 USA

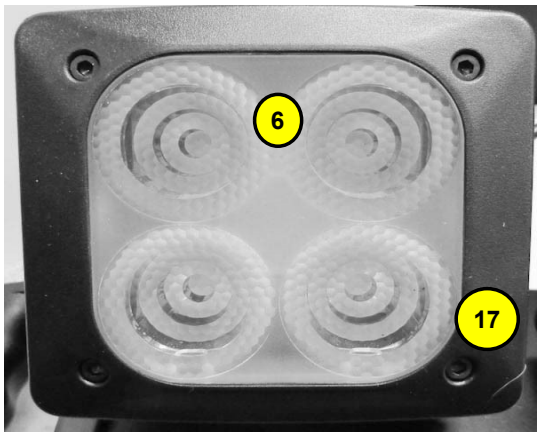
LP-LED2/4X

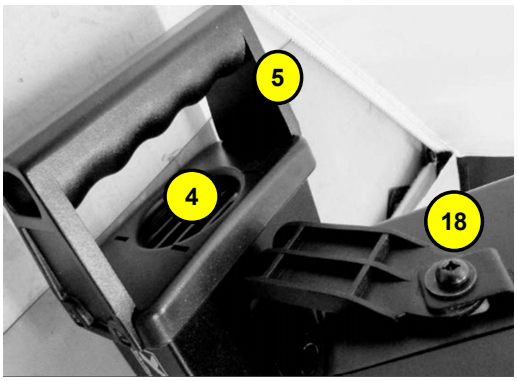
High Performance LED Lighting System

#	Part #	Description
Labeled Components		
1	8418	FAN 60 X 60MM 23CFM 12VDC
2	9582	FAN GUARD METAL 60MM BLACK
3	9586	LP-LED BAR STAND ADAPTER ASSEMBLY
4	8417	FAN 50 X 50MM X 15MM 7.7CFM 12VDC
5	9585	LP-LED4X HANDLE - DIE CAST
6	8415	LP-LED4X POD CLUSTER LENS 4UP PLAST
7	9028	5/16-18X7/8 HEX CAP SCR GRD 5 ZIN
8	4088	RECEPTACLE:V-LOCK INLET
9	9587	PLASTIC SHOULDER WASHER - LP-LED (not shown)
10	3008	3P 18 AWG 25'AC LINE CORD (not shown)
11	3922	XLR FEML PCB MT HORZ THIN SNAP-IN
12	3923	XLR MALE PCB MT HORZ MTHOLE-V SNAP
13	3918	1/4" JCK PCB MT HORZ SLIM W/SCREW
14	4527	ROT GRY HOR 20MM 4BIT ENCODER P31 (Qty of 1)
15	8653C	LOW PROFILE POINTER AT 12 KNOB (Qty of 6)
16	3096	PATCH 02 18AWG 10.0 PH ONE END
17	9091	6-32X11/2 SOCKET HEAD CAP SCREW TBZ (4 per)
18	9098	3/8X5/16 HEX SCKT SHOULDER BOLT TBZ
19	9574	LP-LED4X BLUETOOTH ENDCAP (not shown)
20	9586PIN	LP-LEDXSTAND ADAPTOR PIN ONLY
21		
22		









Doucmentation
Owners Manual
Service Manual
2X/M1488 M1486
4X/M1487
M1486
M1632
M1436
M1437

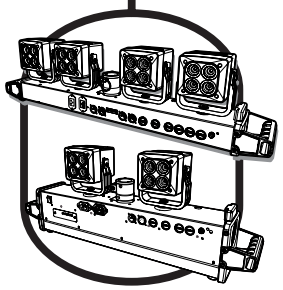
*NOTE: Replacement grills & HF Driver supports are 'Special-Order' and are only available while the model is in production.

** Internal Lightbulb not shown

Real Gear.
Real People.

for more info and documentation please visit yorkville.com

LP-LED Mounting Instructions for Tripod Speaker Stand

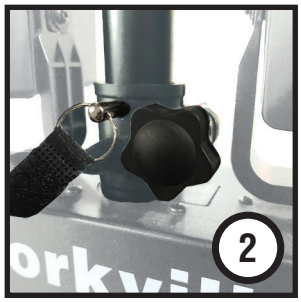


1. Fully extend the tripod legs for maximum stability.
2. Position the LP-LED unit/s at desired positions on poles and use thumb screws and locking pins to help secure position.
3. Extend the Speaker Tripod pole to desired height and use the locking pin and the thumb screws to help secure the position.

* LP-LED4X shown

1. Déployez complètement les pieds du trépied pour une stabilité maximale.
2. Positionnez les unités LP-LED aux positions désirée sur les poteaux et utilisez des vis à oreilles et des goupilles de verrouillage pour aider à sécuriser la position.
3. Déployez le poteau du trépied du haut-parleur à la hauteur désirée et utilisez la goupille de verrouillage et les vis à oreilles pour maintenir la position.

* LP-LED4X illustré



IMPORTANT
ALWAYS use the speaker stand on a flat, level surface to ensure stability.
The speaker stand must have suffcient load capacity.

IMPORTANT
Utiliser TOUJOURS le pied d'enceinte sur une surface plane pour assurer la stabilité.
Le pied d'enceinte doit avoir une capacité de charge suffisante.

REAL Gear.
REAL People.

Canada
Voice: 905-837-8481
Fax: 905-839-5776

U.S.A.
Voice: 716-297-2920
Fax: 716-297-3689

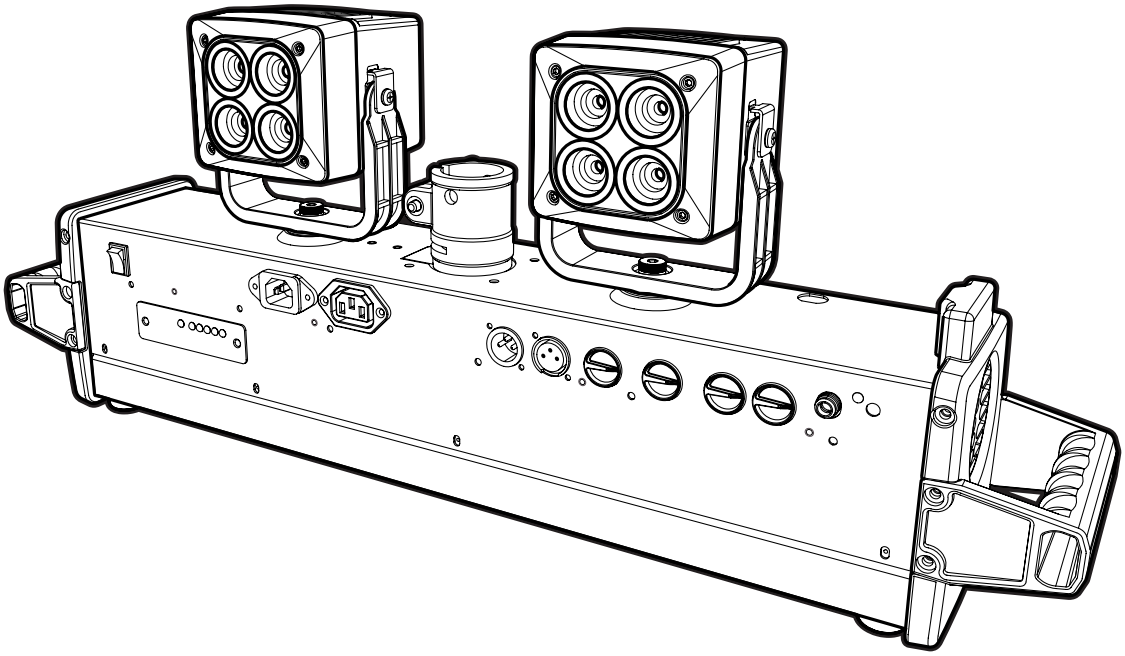
www.yorkville.com

Yorkville Sound
550 Granite Court
Pickering, Ontario
L1W-3Y8 CANADA

Yorkville Sound Inc.
4625 Witmer Industrial Estate
Niagara Falls, New York
14305 USA

LP-LED/X/M

Stage Lighting Lightbars

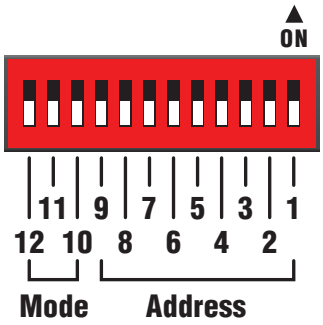


DMX™ Modes

Table of Contents

DMX™ Modes for the LP-LED Bars

Set unit to off position to in order to access DMX. Specific operating instructions for the DMX™ modes are available in the specific DMX™ controller operation manual. For specific LP-LED Bar DMX™ modes see addendum at the end of the manual.

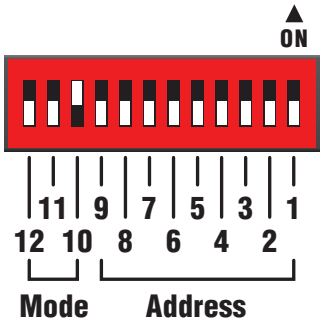


Mode 1 - 4 DMX™ Channels

ALL Dip switches OFF)

CH 1 – Intensity of Pod 1
CH 2 – Intensity of Pod 2
CH 3 – Intensity of Pod 3
CH 4 – Intensity of Pod 4

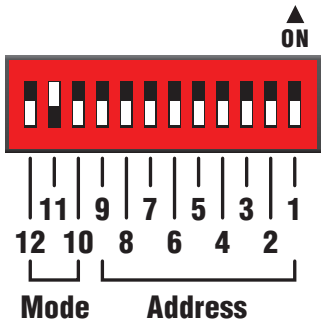
**Note: The user must change the color on the Light Bar itself, and will not have control of it in this mode. Additionally, if the user needs MAXIMUM INTENSITY, the Brightness MUST be set to MAXIMUM on the Lightbar itself!.*



Mode 2 - 8 DMX™ Channels

dip switch #10 set to ON)

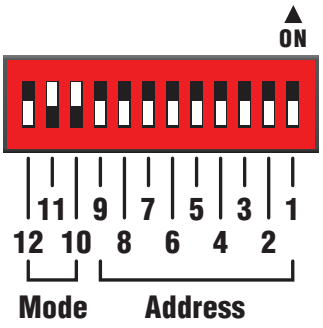
CH 1 – Intensity of Pod 1
CH 2 – Colour for Pod 1
CH 3 – Intensity of Pod 2
CH 4 – Colour of Pod 2
CH 5 – Intensity of Pod 3
CH 6 – Colour of Pod 3
CH 7 – Intensity of Pod 4
CH 8 – Colour of Pod 4



Mode 3 - 20 DMX™ Channels

Dip switch #11 set to ON)

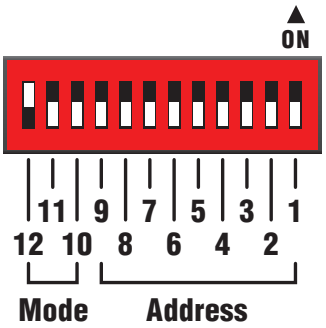
CH 1 – Red for Pod 1
CH 2 – Green for Pod 1
CH 3 – Blue for Pod 1
CH 4 – White for Pod 1
CH 5 – Intensity for Pod 1
CH 6 – Red for Pod 2
CH 7 – Green for Pod 2
CH 8 – Blue for Pod 2
CH 9 – White for Pod 2
CH 10 – Intensity for Pod 2
CH 11 – Red for Pod 3
CH 12 – Green for Pod 3
CH 13 – Blue for Pod 3
CH 14 – White for Pod 3
CH 15 – Intensity for Pod 3
CH 16 – Red for Pod 4
CH 17 – Green for Pod 4
CH 18 – Blue for Pod 4
CH 19 – White for Pod 4
CH 20 – Intensity for Pod 4



Mode 4 - 32 DMX™ Channels

Dip Switch #10 and #11 set to ON)

CH 1 – Red for Pod 1
CH 2 – Green for Pod 1
CH 3 – Blue for Pod 1
CH 4 – White for Pod 1
CH 5 – Intensity for Pod 1
CH 6 – Strobe Speed for Pod 1
CH 7 – Strobe Intensity/Brightness for Pod 1
CH 8 – Sync (Master)
CH 9 – Red for Pod 2
CH 10 – Green for Pod 2
CH 11 – Blue for Pod 2
CH 12 – White for Pod 2
CH 13 – Intensity for Pod 2
CH 14 – Strobe Speed for Pod 2
CH 15 – Strobe Intensity/Brightness for Pod 2
CH 16 – Sync to Master CH 8
CH 17 – Red for Pod 3
CH 18 – Green for Pod 3
CH 19 – Blue for Pod 3
CH 20 – White for Pod 3
CH 21 – Intensity for Pod 3
CH 22 – Strobe Speed for Pod 3
CH 23 – Strobe Intensity/Brightness for Pod 3
CH 24 – Sync to Master CH 8
CH 25 – Red for Pod 4
CH 26 – Green for Pod 4
CH 27 – Blue for Pod 4
CH 28 – White for Pod 4
CH 29 – Intensity for Pod 4
CH 30 – Strobe Speed for Pod 4
CH 31 – Strobe Intensity / Brightness for Pod 4
CH 32 – Sync to Master CH 8



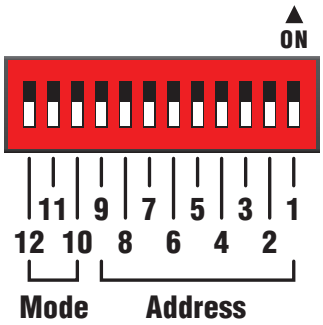
Mode 5 - 16 DMX Channels

Dip Switch 12 Up from the Right Only)

CH 1 – Chase Effect
CH 2 – Colour Fade Effect
CH 3 – Mixed Colour Fade Effect
CH 4 – Audio Modulated Sound Active (3 Band Slow or 4 Band Fast)
CH 5 – Flash All Sound Active
CH 6 – Flash Pairs Sound Active
CH 7 – Audio Chase Sound Active
CH 8 – Audio Modulated Sound Active (3 Band Slow or 4 Band Fast)
CH 9 – Intensity of Pod 1
CH 10 – Colour of Pod 1
CH 11 – Intensity of Pod 2
CH 12 – Colour of Pod 2
CH 13 – Intensity of Pod 3
CH 14 – Colour of Pod 3
CH 15 – Intensity of Pod 4
CH 16 – Colour of Pod 4

Modes DMX™ Pour Les Barres LP-LED

Mettez l'appareil en position off pour accéder au DMX. Des instructions d'utilisation spécifiques pour les modes DMX™ sont disponibles dans le manuel d'utilisation spécifique du contrôleur DMX™ DMX™. Pour les modes LP-LED/X/M Bar DMX™ spécifiques, voir l'additif à la fin du manuel.

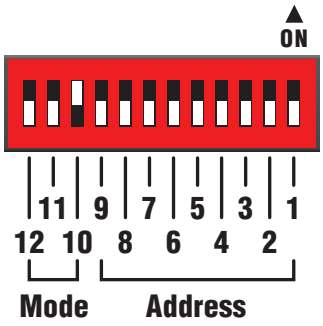


Mode 1 - 4 Canaux DMX™

Tous Les Commutateurs «Dip» En Position OFF

C 1 – Intensité du Pod 1
C 2 – Intensité du Pod 2
C 3 – Intensité du Pod 3
C 4 – Intensité du Pod 4

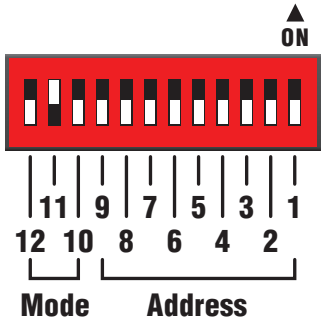
** Remarque: L'utilisateur doit changer la couleur sur la barre lumineuse elle-même. Il n'en aura pas le contrôle dans ce mode. De plus, si l'utilisateur a besoin d'une INTENSITÉ MAXIMALE, la luminosité DOIT être réglée sur MAXIMUM sur la barre de lumière elle-même!*



Mode 2 - 8 Canaux DMX™

Le Commutateur Dip # 10 Réglé à ON)

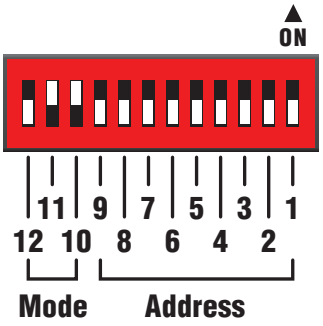
C 1 – Intensité du Pod 1
C 2 – Couleur du Pod 1
C 3 – Intensité du Pod 2
C 4 – Couleur du Pod 2
C 5 – Intensité du Pod 3
C 6 – Couleur du Pod 3
C 7 – Intensité du Pod 4
C 8 – Couleur du Pod 4



Mode 3 - 20 canaux DMX™

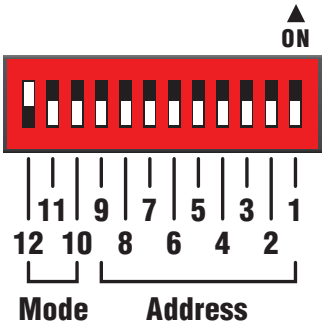
Le Commutateur Dip # 11 Réglé à ON)

C 1 – Rouge pour Pod 1
C 2 – Vert pour Pod 1
C 3 – Bleu pour Pod 1
C 4 – Blanc pour Pod 1
C 5 – Intensité pour Pod 1
C 6 – Rouge pour Pod 2
C 7 – Vert pour Pod 2
C 8 – Bleu pour Pod 2
C 9 – Blanc pour Pod 2
C 10 – Intensité pour Pod 2
C 11 – Rouge pour Pod 3
C 12 – Vert pour Pod 3
C 13 – Bleu pour Pod 3
C 14 – Blanc pour Pod 3
C 15 – Intensité pour Pod 3
C 16 – Rouge pour Pod 4
C 17 – Vert pour Pod 4
C 18 – Bleu pour Pod 4
C 19 – Blanc pour Pod 4
C 20 – Intensité pour Pod 4



Mode 4 (32 canaux DMX™
Les Commutateurs Dip #10 et #11 Réglés à ON)

C 1 – Rouge pour Pod 1
C 2 – Vert pour Pod 1
C 3 – Bleu pour Pod 1
C 4 – Blanc pour Pod 1
C 5 – Intensité pour Pod 1
C 6 – Vitesse stroboscopique pour Pod 1
C 7 – Intensité / luminosité du strobe pour Pod 1
C 8 – Synchronisation (Master)
C 9 – Rouge pour Pod 2
C 10 – Vert pour Pod 2
C 11 – Bleu pour Pod 2
C 12 – Blanc pour Pod 2
C 13 – Intensité pour Pod 2
C 14 – Vitesse stroboscopique pour Pod 2
C 15 – Intensité / luminosité du strobe pour Pod 2
C 16 – Synchronisation au C 8 (Master)
C 17 – Rouge pour Pod 3
C 18 – Vert pour Pod 3
C 19 – Bleu pour Pod 3
C 20 – Blanc pour Pod 3
C 21 – Intensité pour Pod 3
C 22 – Vitesse stroboscopique pour Pod 3
C 23 – Intensité / luminosité du strobe pour Pod 3
C 24 – Synchronisation au C 8 Master
C 25 – Rouge pour Pod 4
C 26 – Vert pour Pod 4
C 27 – Bleu pour Pod 4
C 28 – Blanc pour Pod 4
C 29 – Intensité pour Pod 4
C 30 – Vitesse stroboscopique pour Pod 4
C 31 – Intensité / luminosité du strobe pour Pod 4
C 32 – Synchronisation au C 8 Master



Mode 5 (Occupe 16 canaux DMX™
Le Commutateurs Dip # 12 Réglé à ON, de la Droite Seulement

C 1 – Effet Chase
C 2 – Effet Fondu de Couleur
C 3 – Effet Couleur Mixte
C 4 – Modulation Par Audio, Activé Par Le So (3 Bandes Lent ou 4 Bandes Rapide)
C 5 – Flash Tous, Activé Par Le Son
C 6 – Flash Par Paires, Activé Par Le Son
C 7 – Chase Par Audio, Activé Par Le Son
C 8 – Modulation Par Audio, Activé Par Le Son (3 Bandes Lent ou 4 Bandes Rapide)
C 9 – Intensité pour Pod 1
C 10 – Couleur pour Pod 1
C 11 – Intensité pour Pod 2
C 12 – Couleur pour Pod 2
C 13 – Intensité pour Pod 3
C 14 – Couleur pour Pod 3
C 15 – Intensité pour Pod 4
C 16 – Couleur pour Pod 4

Yorkville

WEB: www.yorkville.com

WORLD HEADQUARTERS

CANADA

Yorkville Sound Limited
550 Granite Court
Pickering, Ontario
L1W 3Y8 CANADA

Voice: 905-837-8481
Fax: 905-839-5776

U.S.A.

Yorkville Sound Inc.
4625 Witmer Industrial Estate
Niagara Falls, New York
14305, USA

Voice: 716-297-2920
Fax: 716-297-3689

Quality and Innovation Since 1963

Printed in Canada

Yorkville Sound
550 Granite Court
Pickering, Ontario
Canada L1W 3Y8

Auto Attend: (905) 837-8550 Fax: (905) 837-8746

www.yorkville.com