



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



SERVICE MANUAL

EXM70

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.

Quality and Innovation Since 1963
Printed in Canada

INPUTS

LEVEL

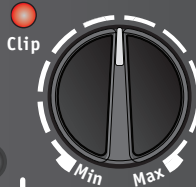
1
Mic/Line



2
Mic /
Instrument



3
Mic /
Bluetooth™



3 Line



Pairing:
Hold for 4 seconds
and then release.



LINK



EFFECTS



www.yorkville.com

LINK: Used for
connecting inputs
when LINKing
to other powered
speaker cabinets.

POWER

Bluetooth™
EXM 70



CAUTION AVIS

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



Contains Transmitter Module FCC ID: A8TBM23SPKXYC2A
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.

EXM70

A-Z1397 / 1v5

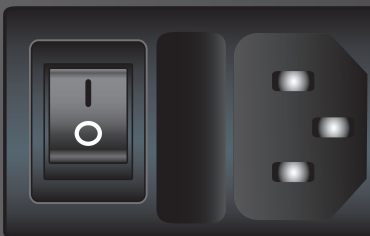
230V~ 50Hz 200mA FUSE: T1,0AL	120VAC 60Hz 360mA FUSE: T1.0AL
--	---

CAUTION: REPLACE
WITH SAME TYPE FUSE
AND RATING

DESIGNED & MANUFACTURED BY
YORKVILLE SOUND • TORONTO, CANADA

ATTENTION: UTILISER
UN FUSIBLE DE
RECHANGE DE MEME
TYPE ET CALIBRE

ON
OFF



THIS UNIT MUST BE GROUNDED! CET APPAREIL DOIT ÊTRE MIS À TERRE!
DISCONNECT POWER BEFORE SERVICING!
DÉBRANCHER L'APPAREIL AVANT D'ENLEVER LES COUVERCLES!



INPUTS

LEVEL

1
Mic/Line



2
Mic / Instrument



3
Mic



3 Line



Pairing:
Hold for 4 seconds

MAIN Output



MASTER



MAIN Input



EFFECTS



www.yorkville.com

POWER

To LINK, Connect the MAIN Output to the MAIN Input of another powered speaker cabinet

Bluetooth™

EXM 70



CAUTION AVIS

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



Contains Transmitter Module FCC ID: A8TBM20SPKXYNBZ
Contains Transmitter Module ID: 12246A-BM20SPKS1
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.

EXM70 REV2

A-Z1376 / 2v7

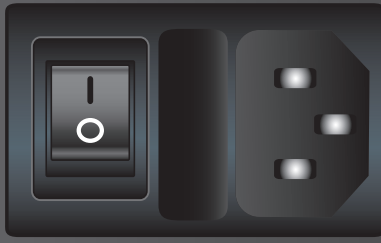
230V~ 50Hz 200mA FUSE: T1,0AL		120V~ 60Hz 360mA FUSE: T1.0AL
--	--	--

CAUTION: REPLACE WITH SAME TYPE FUSE AND RATING

DESIGNED & MANUFACTURED BY
YORKVILLE SOUND • TORONTO, CANADA

ATTENTION: UTILISER UN FUSIBLE DE RECHANGE DE MEME TYPE ET CALIBRE

ON
OFF



THIS UNIT MUST BE GROUNDED! CET APPAREIL DOIT ÊTRE MIS À LA TERRE!
DISCONNECT POWER BEFORE SERVICING!
DÉBRANCHER L'APPAREIL AVANT D'ENLEVER LES COUVERCLES!

INPUTS **LEVEL**

1
Mic/Line

2
Mic / Instrument

3
Mic

3 Aux In

Clip

Min Max

SHAPE

Music Speech

EFFECTS

Bluetooth

Pairing:
Hold for 4 seconds

MASTER

Room
Hall
Delay
Off

EFFECTS

POWER

MAIN Output

MAIN Input

To LINK, Connect the MAIN Output to the MAIN Input of another powered speaker cabinet

EXM 70

Contains Transmitter Module FCC ID: A8TBM20SPKXYNBZ
 Contains Transmitter Module ID: 12246A-BM20SPKS1
 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.

EXM70 REV3 A-Z1444 / 3v4

SERIAL NUMBER	100-240 V~ 50-60 Hz 100 VA
---------------	----------------------------------



DESIGNED & MANUFACTURED BY
 YORKVILLE SOUND • TORONTO, CANADA

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



DISCONNECT POWER BEFORE SERVICING!
 DÉBRANCHER L'APPAREIL AVANT D'ENLEVER LES COUVERCLES!

NO USER SERVICEABLE PARTS INSIDE.
 NE CONTIENT AUCUNE PIECE REPARABLE PAR L'UTILISATEUR.



Specifications

	EXM 70	EXM Mobile	EXM Mobile12
Program Power (watts)	60 watts	60 watts	60 watts
Max SPL (dB)	115	115	120 Continuous (126 Peak)
Frequency Response (Hz +/- 3db)	90-20k	70-20k	65-18k
Speaker Configuration - LF	2 x 6.5-inch (2 x 5-inch pre-2020)	2 x 6.5-inch	12 inch
Speaker Configuration - HF	1-inch Soft Dome	1-inch Soft Dome	1 inch exit compression driver
Inputs	3	3	3
Channel 1 Input	XLR / 1/4-inch Combi-jack	XLR / 1/4-inch Combi-jack	XLR / 1/4-inch Combi-jack
Channel 1 Controls	Level, Shape, Effects Send	Level, Shape, Effects Send	Level, Shape, Effects Send
Channel 2 Input	XLR / 1/4-inch Combi-jack	XLR / 1/4-inch Combi-jack	XLR / 1/4-inch Combi-jack
Channel 2 Controls	Level, Shape, Effects Send	Level, Shape, Effects Send	Level, Shape, Effects Send
Channel 3 Input	XLR Mic & 1/8-inch TRS Stereo Jack, Bluetooth™	XLR Mic & 1/8-inch TRS Stereo Jack, Bluetooth™	XLR Mic & 1/8-inch TRS Stereo Jack, Bluetooth™
Channel 3 Controls	Level, Shape, Effects Send, Bluetooth	Level, Shape, Effects Send, Bluetooth™	Level, Shape, Effects Send, Bluetooth™
Master Volume Control	Yes	Yes	Yes
Link In/Out (type / configuration)	XLR Connector (Male and Female)	XLR Connector (Male and Female)	XLR Connector (Male and Female)
LED Indicators	Power, Clip (CH1, CH2, CH3), Bluetooth	Power, Clip (CH1, CH2, CH3), Bluetooth, 4x Battery Level, Charging Status	Power, Clip (CH1, CH2, CH3), Bluetooth, 4x Battery Level, Charging Status
Other Features	Digital Effects (Hall Reverb, Room Reverb and Delay)	Digital Effects (Hall Reverb, Room Reverb and Delay)	Digital Effects (Hall Reverb, Room Reverb and Delay)
Power Consumption while charging (watts)	N/A	32 (battery fully discharged and unit idle)	32 (battery fully discharged and unit idle)
Dimensions (DWH, inches)	8 x 7.75 x 17.5	8 x 7.75 x 17.5	23.5 x 13.5 x 11.5
Dimensions (DWH, cm)	20.25 x 19.7 x 44.5	20.25 x 19.7 x 44.5	59.5 x 34 x 29
Weight (lbs/kg)	16.3 / 7.4 (14.4 / 6.5 pre-2020)	17.8 / 8.0	33.4 / 15.1

Specifications subject to change without notice

Spécifications

	EXM 70	EXM MOBILE	EXM Mobile12
Puissance programme (watts)	60 watts	60 watts	60 watts
Max SPL (dB)	115	115	120dB Continuous (126 Peak)
Réponse en Fréquence (Hz +/- 3dB)	90-20k	70-20k	65-18k
Configuration haut-parleur - Entrées	2 x 6.5-pouce (2 x 5-pouce avant-2020)	2 x 6.5-pouce	12-pouce
Configuration des haut-parleurs - HF	Dôme souple de 1 pouce	Dôme souple de 1 pouce	Dôme souple de 1 pouce
Entrées	3	3	3
Entrée du canal 1	XLR / ¼ de pouce Combi-jack	XLR / ¼ de pouce Combi-jack	XLR / ¼ de pouce Combi-jack
Commande du canal 1	Level, Shape, Effects	Level, Shape, Effects	Level, Shape, Effects
Entrée du canal 2	XLR / ¼ de pouce Combi-jack	XLR / ¼ de pouce Combi-jack	XLR / ¼ de pouce Combi-jack
Commande du canal 2	Level, Shape, Effects Send	Level, Shape, Effects Send	Level, Shape, Effects Send
Entrée du canal 3	XLR et Jack stéréo 1/8-pouce stéréo, Bluetooth™	XLR et Jack stéréo 1/8-pouce stéréo, Bluetooth™	XLR et Jack stéréo 1/8-pouce stéréo, Bluetooth™
Commande du canal 3	Level, Shape, Effects, Bluetooth	Level, Shape, Effects, Bluetooth™	Level, Shape, Effects, Bluetooth™
Master Volume Control	Oui	Oui	Oui
Entrée / Sortie Link (type / configuration)	Connecteur XLR	Connecteur XLR	XLR Connector (Male and Female)
Indicateurs DEL		Alimentation, Clip (CH1, CH2, CH3), Bluetooth, Niveau de batterie 4x, État de charge	Power, Clip (CH1, CH2, CH3), Bluetooth, 4x Battery Level, Charging Status
Autres caractéristiques	Alimentation, C1, C2, C3 & Effect Clip, Master Clip Effets numériques (Hall Reverb, Room Reverb and Delay)	Alimentation, Clip (CH1, CH2, CH3), Bluetooth, Niveau de batterie 4x, État de charge Effets numériques (Hall Reverb, Room Reverb and Delay)	Alimentation, Clip (CH1, CH2, CH3), Bluetooth, 4x Battery Level, Charging Status Effets numériques (Hall Reverb, Room Reverb and Delay)
Consommation pendant la charge (watts)	N/A	32 (batterie complètement déchargée et au repos)	32 (batterie complètement déchargée et au repos)
Dimensions (PLH, pouces)	8 x 7.75 x 17.5	8 x 7.75 x 17.5	23.5 x 13.5 x 11.5
Dimensions (DWH, cm)	20.25 x 19.7 x 44.5	20.25 x 19.7 x 44.5	59.5 x 34 x 29
Poids (lb / kg)	16.3 / 7.4 (14.4 / 6.5 avant-2020)	17.8 / 8.0	33.4 / 15.1

Spécifications sujettes à changement sans préavis

M1614 2of2 Parts Reference List 8/31/2018

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
R57B		W125 249R0 1% 0805 SMT RES	R127		W100 475K 1% 0805 SMT RES	R219		W100 2K74 1% 0805 SMT RES
R57C		W125 249R0 1% 0805 SMT RES	R128		W125 562R0 1% 0805 SMT RES	R220		W100 2K74 1% 0805 SMT RES
R58A		W125 562R0 1% 0805 SMT RES	R129		W100 2K74 1% 0805 SMT RES	R221		W100 1K0 1% 0805 SMT RES
R58B		W125 562R0 1% 0805 SMT RES	R130		W100 1K0 1% 0805 SMT RES	R222		W100 4K99 1% 0805 SMT RES
R58C		W125 562R0 1% 0805 SMT RES	R131		W250 4R7 5% 1206 SMT RES	R223		W100 4K99 1% 0805 SMT RES
R59A		W100 4K99 1% 0805 SMT RES	R132		W100 2K74 1% 0805 SMT RES	R224		W125 47K5 1% 0805 SMT RES
R59B		W100 4K99 1% 0805 SMT RES	R135		W125 1M50 1% 0805 SMT RES	R225		W125 47K5 1% 0805 SMT RES
R59C		W100 4K99 1% 0805 SMT RES	R136		W100 15K0 1% 0805 SMT RES	R228		W100 10K0 1% 0603 SMT RES
R60A		W125 8K25 1% 0805 SMT RES	R137		W125 100K 5% 0805 SMT RES	R232		W100 1K0 1% 0805 SMT RES
R60B		W125 8K25 1% 0805 SMT RES	R138		W125 1M50 1% 0805 SMT RES	R233		W100 1K0 1% 0805 SMT RES
R60C		W125 8K25 1% 0805 SMT RES	R139		W125 100K 5% 0805 SMT RES	R234		W100 100K0 1% 0805 SMT RES
R61A		W100 10K0 1% 0603 SMT RES	R140		W125 1K54 1% 0805 SMT RES	R235		W125 22K 5% 0805 SMT RES
R61B		W100 10K0 1% 0603 SMT RES	R141		W250 10R 5% 1206 SMT RES	R236		W125 22K 5% 0805 SMT RES
R61C		W100 10K0 1% 0603 SMT RES	R142		1W00 47R 5% 2512 SMT RES	R237		W250 4R7 5% 1206 SMT RES
R63		W100 10K0 1% 0603 SMT RES	R143		W125 10R0 1% 0805 SMT RES	R238		W250 4R7 5% 1206 SMT RES
R64A		W100 6K80 1% 0603 SMT RES	R144		W125 10R0 1% 0805 SMT RES	R241		1W00 47R 5% 2512 SMT RES
R64B		W100 6K80 1% 0603 SMT RES	R145		1W00 22R 5% 2512 SMT RES	R242		W100 100R 1% 0805 SMT RES
R64C		W100 6K80 1% 0603 SMT RES	R146		1W00 22R 5% 2512 SMT RES	R246	2492	FUSE LAG OA4 250V T&R
R65A		W125 8K25 1% 0805 SMT RES	R147		W125 30K 0.5% 0805 SMT RES	R249		W125 10R0 1% 0805 SMT RES
R65B		W125 8K25 1% 0805 SMT RES	R148		W250 1R0 5% 1206 SMT RES	R250		W125 10R0 1% 0805 SMT RES
R65C		W125 8K25 1% 0805 SMT RES	R149		W250 1R0 5% 1206 SMT RES	R251		W125 1K21 1% 0805 SMT RES
R66A		W100 4K99 1% 0805 SMT RES	R150		W125 22K 5% 0805 SMT RES	R252		W100 10K0 1% 0603 SMT RES
R66B		W100 4K99 1% 0805 SMT RES	R151		W100 4K99 1% 0805 SMT RES	R253		W100 10K0 1% 0603 SMT RES
R66C		W100 4K99 1% 0805 SMT RES	R152		W100 10K0 1% 0603 SMT RES	R254		W100 10K0 1% 0603 SMT RES
R67		W100 4K99 1% 0805 SMT RES	R153		W100 4K99 1% 0805 SMT RES	R255		W100 10K0 1% 0603 SMT RES
R68		W100 536R 1% 0603 SMT RES	R154		W125 22K 5% 0805 SMT RES	R257		W250 10K 5% ANTISURGE 0805 SMT RES
R69		W100 475R 1% 0805 SMT RES	R155		W125 22K 5% 0805 SMT RES	R258		W250 10K 5% ANTISURGE 0805 SMT RES
R70		W100 1K0 1% 0805 SMT RES	R156		W100 10K0 1% 0603 SMT RES	S1	4189	DP4T NONSHORTING VERT ROT SWT
R71		W125 3K32 1% 0805 SMT RES	R157		W125 249R0 1% 0805 SMT RES	S2	3439	DPDT MINI PC VERT MOMENTARY
R72		W125 1M 5% 0805 SMT RES	R158		W100 10K0 1% 0603 SMT RES	SPCR1A	4007	.9 LED CUSTOM SPACER
R73		W125 22K 5% 0805 SMT RES	R159		W125 1M 5% 0805 SMT RES	SPCR1B	4007	.9 LED CUSTOM SPACER
R74		W125 3K32 1% 0805 SMT RES	R160		W100 1K0 1% 0805 SMT RES	SPCR1C	4007	.9 LED CUSTOM SPACER
R75		W125 1K54 1% 0805 SMT RES	R161		W100 10K0 1% 0603 SMT RES	SPCR3	4007	.9 LED CUSTOM SPACER
R76		W125 1M 5% 0805 SMT RES	R163		W100 10K0 1% 0603 SMT RES	SPCR4	4007	.9 LED CUSTOM SPACER
R77		W125 3K32 1% 0805 SMT RES	R164		W125 22K 5% 0805 SMT RES	U1		TL072 DUAL OPAMP SMT SO-8
R78		W125 3K32 1% 0805 SMT RES	R166		W100 10K0 1% 0603 SMT RES	U2		LM13700M XCONDUCTANC AMP SMT IC
R79		W100 475R 1% 0805 SMT RES	R167		W100 2K74 1% 0805 SMT RES	U3		TL072 DUAL OPAMP SMT SO-8
R80		W100 4K99 1% 0805 SMT RES	R168		W100 10K0 1% 0603 SMT RES	U4A		MC33079D QUAD OPAMP SMT SO14
R81		W125 249R0 1% 0805 SMT RES	R169		W125 47K5 1% 0805 SMT RES	U4B		MC33079D QUAD OPAMP SMT SO14
R82		W100 2K74 1% 0805 SMT RES	R170		W100 4K99 1% 0805 SMT RES	U4C		MC33079D QUAD OPAMP SMT SO14
R83A		W125 8K25 1% 0805 SMT RES	R171		W125 249R0 1% 0805 SMT RES	U5		33078 DUAL OPAMP SMT SO-8
R83B		W125 8K25 1% 0805 SMT RES	R172		W125 82K5 1% 0805 SMT RES	U6		MC33079D QUAD OPAMP SMT SO14
R83C		W125 8K25 1% 0805 SMT RES	R173		W100 4K32 1% 0805 SMT RES	U7		MC33079D QUAD OPAMP SMT SO14
R84		W100 4K99 1% 0805 SMT RES	R174		W125 39K2 1% 0805 SMT RES	U8		TDA8950TH 2DAMP HSOP-24 SMT
R85		W100 1K0 1% 0805 SMT RES	R175		W250 10R 5% 1206 SMT RES	U9		V1000 DIG REVERB SMT IC SO16W
R86		W100 10K0 1% 0603 SMT RES	R176		W250 10R 5% 1206 SMT RES	U10		V4220M STEREO CODEC SMT IC SSOP28
R87		W100 4K99 1% 0805 SMT RES	R177		W250 10R 5% 1206 SMT RES	U11		MC33079D QUAD OPAMP SMT SO14
R88		W100 4K99 1% 0805 SMT RES	R178		W250 10R 5% 1206 SMT RES	U12		33078 DUAL OPAMP SMT SO-8
R94		W125 1K54 1% 0805 SMT RES	R179		W125 39K2 1% 0805 SMT RES	U13		33078 DUAL OPAMP SMT SO-8
R95		W100 4K99 1% 0805 SMT RES	R180		W125 39K2 1% 0805 SMT RES	U14		MC33063ADR BUCK/BOOST INV IC SO8
R96		W100 10K0 1% 0603 SMT RES	R181		W100 18K2 1% 0805 SMT RES	U15		LM13700M XCONDUCTANC AMP SMT IC
R97		W100 4R7 5% 0805 SMT RES	R182		W250 4R7 5% 1206 SMT RES	U16		TCM809S RESET SENSE SMT SOT23B
R98		1W00 22R 5% 2512 SMT RES	R183		W100 1K0 1% 0805 SMT RES	U17		BM20 BLUETOOTH AUDIO SMT MOD
R99		1W00 47R 5% 2512 SMT RES	R184		W125 3K01 1% 0805 SMT RES	W1	3538	24 PIN BREAKAWAY LOCK .156
R100		W100 4K99 1% 0805 SMT RES	R185		W250 10R 5% 1206 SMT RES	W2	3538	24 PIN BREAKAWAY LOCK .156
R102		1W00 47R 5% 2512 SMT RES	R186		W250 10R 5% 1206 SMT RES	W3	2358	9 CIR XH-HEADER 0.098IN
R103		W125 82K5 1% 0805 SMT RES	R187		W250 10R 5% 1206 SMT RES	W4	2358	9 CIR XH-HEADER 0.098IN
R104		W100 10K0 1% 0603 SMT RES	R188		W250 10R 5% 1206 SMT RES	W6	2372	8 CIR PH-HEADER 2MM
R105		W100 2K74 1% 0805 SMT RES	R189		W250 10R 5% 1206 SMT RES	W6_	2372	8 CIR PH-HEADER 2MM
R106		W125 40K2 1% 0805 SMT RES	R190		1W00 22R 5% 2512 SMT RES	Y1		12.288 CRYSTAL 2-PIN 4.5MM SMT
R107		W100 2K74 1% 0805 SMT RES	R192		W100 392R 1% 0805 SMT RES			
R108		W100 2K74 1% 0805 SMT RES	R193		W100 392R 1% 0805 SMT RES			
R109		W100 2K74 1% 0805 SMT RES	R201		W125 0R 5% 0805 SMT RES			
R110		W100 2K74 1% 0805 SMT RES	R202		W125 0R 5% 0805 SMT RES			
R111		W100 2K74 1% 0805 SMT RES	R203		OR41 1W2 0.65AMP PTC AUTOFOCUS			
R112		W125 30K 0.5% 0805 SMT RES	R204		W100 15K0 1% 0805 SMT RES			
R113		W100 475K 1% 0805 SMT RES	R205		W100 15K0 1% 0805 SMT RES			
R114		W100 4K99 1% 0805 SMT RES	R206A		W125 3K92 1% 0805 SMT RES			
R115		W125 47K5 1% 0805 SMT RES	R206B		W125 3K92 1% 0805 SMT RES			
R116		W100 4K99 1% 0805 SMT RES	R206C		W125 3K92 1% 0805 SMT RES			
R117		W100 4K99 1% 0805 SMT RES	R207		W100 4K99 1% 0805 SMT RES			
R118		W100 2K74 1% 0805 SMT RES	R208		W100 4K99 1% 0805 SMT RES			
R119		W125 22K 5% 0805 SMT RES	R209		W100 4K99 1% 0805 SMT RES			
R120		W100 475K 1% 0805 SMT RES	R210		W100 2K74 1% 0805 SMT RES			
R121		W100 15K0 1% 0805 SMT RES	R211		W125 10R0 1% 0805 SMT RES			
R122		W100 2K74 1% 0805 SMT RES	R212		W100 10K0 1% 0603 SMT RES			
R123		W100 10K0 1% 0603 SMT RES	R213		W125 82K5 1% 0805 SMT RES			
R124		W125 47K5 1% 0805 SMT RES	R215		W100 100K0 1% 0805 SMT RES			
R125		W125 3K32 1% 0805 SMT RES	R216		W125 249R0 1% 0805 SMT RES			
R126	2492	FUSE LAG OA4 250V T&R	R217		W125 249R0 1% 0805 SMT RES			

M1616 03 1of2 Parts Reference List 9/23/2020

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
A1-RAS5	M1616-59	EXM70 MINI PCB W SMT LEDS	C56	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C134	5269	4U7 100V 20%CAP T&R RAD LESR2	D53		PMLL4148 75V 0A2 SOD80C SMT	R25		W100 10K0 1% 0603 SMT RES
C1	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C57	5631	22U 50V 20%CAP T&R 6X7MM .2EL	C135		100N 100V 10%CAP 1206 SMT X7R	D54		PMLL4148 75V 0A2 SOD80C SMT	R26		W100 10K0 1% 0603 SMT RES
C2	5631	22U 50V 20%CAP T&R 6X7MM .2EL	C58	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C136		1U 50V 10%CAP 1206 SMT CER	H91	6671	HEATSINK TDAR950 W35XL58XH28 ALUM	R27A		W100 6K80 1% 0603 SMT RES
C3	5631	22U 50V 20%CAP T&R 6X7MM .2EL	C59		100N 100V 10%CAP 1206 SMT X7R	C137	5212	100N 100V 5%CAP T&R RAD .2FLM	HW1	4144	GAPPAD GR254A REINF 0.040 25X25MM	R27B		W100 6K80 1% 0603 SMT RES
C4	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C60	5267	100U 25V 20%CAP T&R RAD .2EL	C138	5254	1U 63V 20%CAP T&R 5X7MM .2EL	HW3	8761	6-32X1/2 PAN PHIL MS ZINC C/A	R27C		W100 6K80 1% 0603 SMT RES
C5	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C61		100N 100V 10%CAP 1206 SMT X7R	C139	5212	100N 100V 5%CAP T&R RAD .2FLM	HW4	8761	6-32X1/2 PAN PHIL MS ZINC C/A	R28A		W125 100K 5% 0805 SMT RES
C6	5631	22U 50V 20%CAP T&R 6X7MM .2EL	C62		100N 50V 5%CAP 0805 SMT X7R	C140	5631	22U 50V 20%CAP T&R 6X7MM .2EL	J1	4154	1/4XLR PCB MT VERT ACJCA6V2L	R28B		W125 100K 5% 0805 SMT RES
C7	5631	22U 50V 20%CAP T&R 6X7MM .2EL	C63		100N 50V 5%CAP 0805 SMT X7R	C141		100N 50V 5%CAP 0805 SMT X7R	J2	4152	1/4-SW&XLR PCB MT VERT ACJCA9AV2L	R28C		W125 100K 5% 0805 SMT RES
C8		15N 50V 5%CAP 1206 SMT X7R	C64		15N 50V 5%CAP 0805 SMT COG	C142	5669	470U 6V3 20%CAP RAD EL LTR	J3	4010	XLR FEML PCB MT VERT 24MM AA-SERIES	R29A		W125 100K 5% 0805 SMT RES
C9		15N 50V 5%CAP 1206 SMT X7R	C65		100N 50V 5%CAP 0805 SMT X7R	C143A		10P 50V 5%CAP 0402 SMT NPO	J4	4186	3.5MM JCK PCB MT VERT ST	R29B		W125 100K 5% 0805 SMT RES
C10		33N 50V 5%CAP 0805 SMT X7R	C66		220P 100V 10%CAP 0805 SMT X7R	C143B		10P 50V 5%CAP 0402 SMT NPO	J5	4010	XLR FEML PCB MT VERT 24MM AA-SERIES	R29C		W125 100K 5% 0805 SMT RES
C11		330P 50V 5%CAP 0805 SMT NPO	C67	5240	680N 63V 10%CAP T&R RAD .2FLM	C143C		10P 50V 5%CAP 0402 SMT NPO	J6	4140	XLR MALE PCB MT VERT 24MM A-SERIES	R30A		W100 10K0 1% 0603 SMT RES
C12		4N7 50V 10%CAP 0805 SMT X7R	C68		220P 100V 10%CAP 0805 SMT X7R	C144		100P 50V 10%CAP 0805 SMT NPO	L1	3303	INDUCTOR 22UH	R30B		W100 10K0 1% 0603 SMT RES
C13	5961	33U 16V 20%CAP T&R RAD .2IN NP	C69		220P 100V 10%CAP 0805 SMT X7R	C145		100P 50V 10%CAP 0805 SMT NPO	L2	3303	INDUCTOR 22UH	R30C		W100 10K0 1% 0603 SMT RES
C14	5668	1000U 50V 20%CAP 13X26 RAD EL	C70		220P 100V 10%CAP 0805 SMT X7R	C146		100N 50V 5%CAP 0805 SMT X7R	L3		220 UJH COIL SMT	R31A		W100 2K74 1% 0805 SMT RES
C15		100P 50V 10%CAP 0805 SMT NPO	C71	5269	4U7 100V 20%CAP T&R RAD LESR2	C147		1U 50V 10%CAP 1206 SMT CER	L4		220 UJH COIL SMT	R31B		W100 2K74 1% 0805 SMT RES
C16	5631	22U 50V 20%CAP T&R 6X7MM .2EL	C72		100N 100V 10%CAP 1206 SMT X7R	C148		100N 50V 5%CAP 0805 SMT X7R	L5		1000UH COIL 6X6MM SMT	R31C		W100 2K74 1% 0805 SMT RES
C17	5631	22U 50V 20%CAP T&R 6X7MM .2EL	C73		100N 100V 10%CAP 1206 SMT X7R	C153		1U 50V 10%CAP 1206 SMT CER	L6		1000UH COIL 6X6MM SMT	R32A		W100 2K74 1% 0805 SMT RES
C18	5631	22U 50V 20%CAP T&R 6X7MM .2EL	C74		100N 50V 5%CAP 0805 SMT X7R	C179		1U 50V 10%CAP 1206 SMT CER	L01A		RED LED 1V5 20MA 1206 SMT	R32B		W100 2K74 1% 0805 SMT RES
C19	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C75		100N 50V 5%CAP 0805 SMT X7R	L180		100N 100V 10%CAP 1206 SMT X7R	L01B		RED LED 1V5 20MA 1206 SMT	R32C		W100 2K74 1% 0805 SMT RES
C20	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	C76		100N 50V 5%CAP 0805 SMT X7R	L181		MMSZ5230B 4V7 0W5 SOD123 SMT ZEN	L01C		RED LED 1V5 20MA 1206 SMT	R33A		W100 4K99 1% 0805 SMT RES
C21A	5257	2U2 63V 20%CAP T&R RAD .2EL	C77	5631	22U 50V 20%CAP T&R 6X7MM .2EL	D1B		MMSZ5230B 4V7 0W5 SOD123 SMT ZEN	L03		GRN LED 2V8 20MA 1206 SMT	R33B		W100 4K99 1% 0805 SMT RES
C21B	5257	2U2 63V 20%CAP T&R RAD .2EL	C78		1N5 50V 5%CAP 0805 SMT NPO	D1C		MMSZ5230B 4V7 0W5 SOD123 SMT ZEN	L06		BLU LED 2V8 20MA 1206 SMT	R33C		W100 4K99 1% 0805 SMT RES
C21C	5257	2U2 63V 20%CAP T&R RAD .2EL	C79		100N 50V 5%CAP 0805 SMT X7R	D2A		PMLL4148 75V 0A2 SOD80C SMT	D1A	4486	20K 5C R/A 9MM DET HI TORQ P32	R34A		W125 249R0 1% 0805 SMT RES
C22A		100N 50V 5%CAP 0805 SMT X7R	C80	5631	22U 50V 20%CAP T&R 6X7MM .2EL	D2B		PMLL4148 75V 0A2 SOD80C SMT	D1B	4486	20K 5C R/A 9MM DET HI TORQ P32	R34B		W125 249R0 1% 0805 SMT RES
C22B		100N 50V 5%CAP 0805 SMT X7R	C81	5631	22U 50V 20%CAP T&R 6X7MM .2EL	D2C		PMLL4148 75V 0A2 SOD80C SMT	D1C	4486	20K 5C R/A 9MM DET HI TORQ P32	R34C		W125 249R0 1% 0805 SMT RES
C22C		100N 50V 5%CAP 0805 SMT X7R	C82		10N 50V 5%CAP 1206 SMT NPO	D3A		BZX84C22 22V0 0W3 5% SMT ZEN	D2A	4472	10K B LIN 9MM P35	R35A		W100 270K 5% 0603 SMT RES
C23A		330P 50V 5%CAP 0805 SMT NPO	C83		3N3 25V 5%CAP 0805 SMT NPO	D3B		BZX84C22 22V0 0W3 5% SMT ZEN	D2B	4472	10K B LIN 9MM P35	R35B		W100 270K 5% 0603 SMT RES
C23B		330P 50V 5%CAP 0805 SMT NPO	C84	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	D3C		BZX84C22 22V0 0W3 5% SMT ZEN	D3A	4472	10K B LIN 9MM P35	R35C		W100 270K 5% 0603 SMT RES
C23C		330P 50V 5%CAP 0805 SMT NPO	C85		100N 50V 5%CAP 0805 SMT X7R	D4A		PMLL4148 75V 0A2 SOD80C SMT	D3B	4472	10K B LIN 9MM P35	R36		W125 100K 5% 0805 SMT RES
C24A	5879	100U 16V 20%CAP T&R 8X7MM .2EL	C86	5631	22U 50V 20%CAP T&R 6X7MM .2EL	D4B		PMLL4148 75V 0A2 SOD80C SMT	D3B	4472	10K B LIN 9MM P35	R37A		W125 249R0 1% 0805 SMT RES
C24B	5879	100U 16V 20%CAP T&R 8X7MM .2EL	C87		22P 50V 5%CAP 0805 SMT NPO	D4C		PMLL4148 75V 0A2 SOD80C SMT	D3C	4472	10K B LIN 9MM P35	R37B		W125 249R0 1% 0805 SMT RES
C24C	5879	100U 16V 20%CAP T&R 8X7MM .2EL	C88		22P 50V 5%CAP 0805 SMT NPO	D5		PMLL4148 75V 0A2 SOD80C SMT	D4	4433	50K B LIN 9MM P32	R37C		W125 249R0 1% 0805 SMT RES
C25A		1N5 50V 5%CAP 0805 SMT NPO	C89		220P 100V 10%CAP 0805 SMT X7R	D6A		RLZ7.5B 7V5 0W5 6% SMT ZEN	PCB		2 OZ 2SD 83.84SQIN 01PER EXM70	R38A		W100 10K0 1% 0603 SMT RES
C25B		1N5 50V 5%CAP 0805 SMT NPO	C90	5631	22U 50V 20%CAP T&R 6X7MM .2EL	D6B		RLZ7.5B 7V5 0W5 6% SMT ZEN	Q1A		MMBT92 PNP SOT-23 SMT	R38B		W100 10K0 1% 0603 SMT RES
C25C		1N5 50V 5%CAP 0805 SMT NPO	C91	5282	10U 16V 20%CAP T&R 5X7MM .2NP	D6C		RLZ7.5B 7V5 0W5 6% SMT ZEN	Q1B		MMBT92 PNP SOT-23 SMT	R39		W100 10K0 1% 0603 SMT RES
C26A		1N 50V 5%CAP 0805 SMT NPO	C92	5257	2U2 63V 20%CAP T&R RAD .2EL	D7		PMLL4148 75V 0A2 SOD80C SMT	Q1C		MMBT92 PNP SOT-23 SMT	R39A		W100 475K 1% 0805 SMT RES
C26B		1N 50V 5%CAP 0805 SMT NPO	C93	5914	100U 63V 20%CAP BLK 10X13MM .2EL	D9		PMLL4148 75V 0A2 SOD80C SMT	Q2A		BC847C 0.1A NPN 45V SOT-23 SMT	R39B		W100 475K 1% 0805 SMT RES
C26C		1N 50V 5%CAP 0805 SMT NPO	C94	5258	4U7 63V 20%CAP T&R 5X7MM .2EL	D9		ES1J 600V 1A0 DO214AC SMT SMA	Q2B		BC847C 0.1A NPN 45V SOT-23 SMT	R39C		W100 475K 1% 0805 SMT RES
C27A	5961	33U 16V 20%CAP T&R RAD .2IN NP	C95	5240	680N 63V 10%CAP T&R RAD .2FLM	D10		PMLL4148 75V 0A2 SOD80C SMT	Q2C		BC847C 0.1A NPN 45V SOT-23 SMT	R40A		W125 100K 5% 0805 SMT RES
C27B	5961	33U 16V 20%CAP T&R RAD .2IN NP	C96		100N 50V 5%CAP 0805 SMT X7R	D11A		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	Q3A		BC847C 0.1A NPN 45V SOT-23 SMT	R40B		W125 100K 5% 0805 SMT RES
C27C	5961	33U 16V 20%CAP T&R RAD .2IN NP	C97		100N 50V 5%CAP 0805 SMT X7R	D11B		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	Q3B		BC847C 0.1A NPN 45V SOT-23 SMT	R40C		W125 100K 5% 0805 SMT RES
C28A		1N5 50V 5%CAP 0805 SMT NPO	C98		100N 50V 5%CAP 0805 SMT X7R	D11C		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	Q3C		BC847C 0.1A NPN 45V SOT-23 SMT	R41A		W100 1K0 1% 0805 SMT RES
C28B		1N5 50V 5%CAP 0805 SMT NPO	C99		100N 50V 5%CAP 0805 SMT X7R	D13		S2B 100V 2A DIO DO214AA SMT	Q4A		MMBT9414 NPN DARL SOT-23 SMT	R41B		W100 1K0 1% 0805 SMT RES
C28C		1N5 50V 5%CAP 0805 SMT NPO	C100		100N 50V 5%CAP 0805 SMT X7R	D14		S2B 100V 2A DIO DO214AA SMT	Q4B		MMBT9414 NPN DARL SOT-23 SMT	R41C		W100 1K0 1% 0805 SMT RES
C29A	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C101		100N 50V 5%CAP 0805 SMT X7R	D15		S2B 100V 2A DIO DO214AA SMT	Q4C		MMBT9414 NPN DARL SOT-23 SMT	R42A		W100 4K99 1% 0805 SMT RES
C29B	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C102		100N 50V 5%CAP 0805 SMT X7R	D16		MM3Z15VT1G 15V0 0W2 5% SMT ZEN	Q6		MJD112 NPN DARL DPAK3 SMT	R42B		W100 4K99 1% 0805 SMT RES
C29C	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C103		100N 50V 5%CAP 0805 SMT X7R	D17		S2B 100V 2A DIO DO214AA SMT	Q7		MJD117 PNP DARL DPAK3 SMT	R42C		W100 4K99 1% 0805 SMT RES
C30A		1N5 50V 5%CAP 0805 SMT NPO	C104		1N 50V 5%CAP 0805 SMT NPO	D18		PMLL4148 75V 0A2 SOD80C SMT	Q8		MJD112 NPN DARL DPAK3 SMT	R43A		W100 1K0 1% 0805 SMT RES
C30B		1N5 50V 5%CAP 0805 SMT NPO	C105	5668	1000U 50V 20%CAP 13X26 RAD EL	D19		PMLL4148 75V 0A2 SOD80C SMT	Q9		MMBFJ108 NCH JFET SOT-23 SMT	R43B		W100 1K0 1% 0805 SMT RES
C30C		1N5 50V 5%CAP 0805 SMT NPO	C106		220P 100V 10%CAP 1206 SMT X7R	D20		PMLL4148 75V 0A2 SOD80C SMT	Q10		MMBT64L1G PNP DARL SOT-23 SMT	R43C		W100 1K0 1% 0805 SMT RES
C31A		100N 50V 5%CAP 0805 SMT X7R	C107		220P 100V 10%CAP 0805 SMT X7R	D21		SMBJ5339B 5V6 5W0 DO214AA SMT ZEN	Q11		MMBFJ108 NCH JFET SOT-23 SMT	R44A		W125 40K2 1% 0805 SMT RES
C31B		100N 50V 5%CAP 0805 SMT X7R	C108		470N 50V 5%CAP 1206 SMT X7R	D22		PMLL4148 75V 0A2 SOD80C SMT	Q13		MMBFJ108 NCH JFET SOT-23 SMT	R44B		W125 40K2 1% 0805 SMT RES
C31C		100N 50V 5%CAP 0805 SMT X7R	C109		100N 100V 10%CAP 1206 SMT X7R	D23		PMLL4148 75V 0A2 SOD80C SMT	Q14		MMBT3904 PNP SOT-23 SMT	R45A		W125 40K2 1% 0805 SMT RES
C32A		100N 50V 5%CAP 0805 SMT X7R	C110	5204	10N 100V 10%CAP T&R RAD .2FLM	D24		MURS120T3 200V 1A DIO DO214AA SMT	Q15		MMBT5401 PNP SOT-23 SMT	R46A		W125 249R0 1% 0805 SMT RES
C32B		100N 50V 5%CAP 0805 SMT X7R	C111	5209	4N7 250V 5%CAP T&R RAD .2FLM	D25		MURS120T3 200V 1A DIO DO214AA SMT	Q16		BC847C 0.1A NPN 45V SOT-23 SMT	R46B		W125 249R0 1% 0805 SMT RES
C32C		100N 50V 5%CAP 0805 SMT X7R	C112	5209	4N7 250V 5%CAP T&R RAD .2FLM	D26		PMLL4148 75V 0A2 SOD80C SMT	Q18		MMBT3906L1T PNP SOT-23 SMT T&R	R46C		W125 249R0 1% 0805 SMT RES
C33		470P 50V 5%												

M1616 03 2of2 Parts Reference List 9/23/2020

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
R55B		W100 12K1 1% 0603 SMT RES	R120		W100 475K 1% 0805 SMT RES	R215		W100 100K0 1% 0805 SMT RES
R55C		W100 12K1 1% 0603 SMT RES	R121		W125 1K21 1% 0805 SMT RES	R216		W125 249R0 1% 0805 SMT RES
R56A		W125 47K5 1% 0805 SMT RES	R122		W100 2K74 1% 0805 SMT RES	R217		W125 249R0 1% 0805 SMT RES
R56B		W125 47K5 1% 0805 SMT RES	R123		W100 10K0 1% 0603 SMT RES	R219		W100 2K74 1% 0805 SMT RES
R56C		W125 47K5 1% 0805 SMT RES	R124		W125 47K5 1% 0805 SMT RES	R220		W100 2K74 1% 0805 SMT RES
R57A		W125 249R0 1% 0805 SMT RES	R125		W125 3K32 1% 0805 SMT RES	R221		W100 1K0 1% 0805 SMT RES
R57B		W125 249R0 1% 0805 SMT RES	R126	2492	FUSE LAG 0A4 250V T&R	R222		W100 4K99 1% 0805 SMT RES
R57C		W125 249R0 1% 0805 SMT RES	R127		W100 475K 1% 0805 SMT RES	R223		W100 4K99 1% 0805 SMT RES
R58A		W125 562R0 1% 0805 SMT RES	R128		W125 562R0 1% 0805 SMT RES	R224		W125 47K5 1% 0805 SMT RES
R58B		W125 562R0 1% 0805 SMT RES	R129		W100 2K74 1% 0805 SMT RES	R225		W125 47K5 1% 0805 SMT RES
R58C		W125 562R0 1% 0805 SMT RES	R130		W100 1K0 1% 0805 SMT RES	R228		W100 10K0 1% 0603 SMT RES
R59A		W100 4K99 1% 0805 SMT RES	R131		W250 4R7 5% 1206 SMT RES	R232		W100 1K0 1% 0805 SMT RES
R59B		W100 4K99 1% 0805 SMT RES	R132		W100 2K74 1% 0805 SMT RES	R233		W100 1K0 1% 0805 SMT RES
R59C		W100 4K99 1% 0805 SMT RES	R135		W125 1M50 1% 0805 SMT RES	R234		W100 100K0 1% 0805 SMT RES
R60A		W125 8K25 1% 0805 SMT RES	R136		W100 15K0 1% 0805 SMT RES	R235		W125 22K 5% 0805 SMT RES
R60B		W125 8K25 1% 0805 SMT RES	R137		W125 100K 5% 0805 SMT RES	R236		W125 22K 5% 0805 SMT RES
R60C		W125 8K25 1% 0805 SMT RES	R138		W125 1M50 1% 0805 SMT RES	R237		W250 4R7 5% 1206 SMT RES
R61A		W100 10K0 1% 0603 SMT RES	R139		W125 100K 5% 0805 SMT RES	R238		W250 4R7 5% 1206 SMT RES
R61B		W100 10K0 1% 0603 SMT RES	R140		W125 1K54 1% 0805 SMT RES	R241		W100 10K0 1% 0603 SMT RES
R61C		W100 10K0 1% 0603 SMT RES	R141		W250 10R 5% 1206 SMT RES	R242		W100 100R 1% 0805 SMT RES
R63		W100 10K0 1% 0603 SMT RES	R142		W100 47R 5% 2512 SMT RES	R246	2492	FUSE LAG 0A4 250V T&R
R64A		W100 6K80 1% 0603 SMT RES	R143		W125 10R0 1% 0805 SMT RES	R249		W100 4K99 1% 0805 SMT RES
R64B		W100 6K80 1% 0603 SMT RES	R144		W125 10R0 1% 0805 SMT RES	R250		W100 4K99 1% 0805 SMT RES
R64C		W100 6K80 1% 0603 SMT RES	R145		W100 22R 5% 2512 SMT RES	R251		W100 4K99 1% 0805 SMT RES
R65A		W125 8K25 1% 0805 SMT RES	R146		W100 22R 5% 2512 SMT RES	R257		W1250 10K 5% ANTISURGE 0805 SMT RES
R65B		W125 8K25 1% 0805 SMT RES	R147		W125 30K 0.5% 0805 SMT RES	R258		W250 10K 5% ANTISURGE 0805 SMT RES
R65C		W125 8K25 1% 0805 SMT RES	R148		W250 1R 5% 1206 SMT RES	R308		W100 1M0 1% 0805 SMT RES
R66A		W100 4K99 1% 0805 SMT RES	R149		W250 1R 5% 1206 SMT RES	R309		W100 1M0 1% 0805 SMT RES
R66B		W100 4K99 1% 0805 SMT RES	R150		W125 22K 5% 0805 SMT RES	R310		W100 1M0 1% 0805 SMT RES
R66C		W100 4K99 1% 0805 SMT RES	R151		W100 4K99 1% 0805 SMT RES	R311		W100 1M0 1% 0805 SMT RES
R67		W100 4K99 1% 0805 SMT RES	R152		W100 10K0 1% 0603 SMT RES	R312		W100 10K0 1% 0805 SMT RES
R68		W100 536R 1% 0603 SMT RES	R153		W100 4K99 1% 0805 SMT RES	S1	4189	DP4T NONSHORTING VERT ROT SWT
R69		W100 475R 1% 0805 SMT RES	R154		W125 22K 5% 0805 SMT RES	S2	3439	DPDT MINI PC VERT MOMENTARY
R70		W100 1K0 1% 0805 SMT RES	R155		W125 22K 5% 0805 SMT RES	U1		TL072 DUAL OPAMP SMT SO-8
R71		W125 3K32 1% 0805 SMT RES	R156		W100 10K0 1% 0603 SMT RES	U2		LM13700M XCONDUCTANC AMP SMT IC
R72		W125 1M 5% 0805 SMT RES	R157		W125 249R0 1% 0805 SMT RES	U3		TL072 DUAL OPAMP SMT SO-8
R73		W125 22K 5% 0805 SMT RES	R158		W100 10K0 1% 0603 SMT RES	U4A		MC33079D QUAD OPAMP SMT SO14
R74		W125 3K32 1% 0805 SMT RES	R159		W125 1M 5% 0805 SMT RES	U4B		MC33079D QUAD OPAMP SMT SO14
R75		W125 1K54 1% 0805 SMT RES	R160		W100 1K0 1% 0805 SMT RES	U4C		MC33079D QUAD OPAMP SMT SO14
R76		W125 1M 5% 0805 SMT RES	R161		W100 10K0 1% 0603 SMT RES	U5		33078 DUAL OPAMP SMT SO-8
R77		W125 3K32 1% 0805 SMT RES	R164		W125 22K 5% 0805 SMT RES	U6		MC33079D QUAD OPAMP SMT SO14
R78		W125 3K32 1% 0805 SMT RES	R167		W100 2K74 1% 0805 SMT RES	U7		MC33079D QUAD OPAMP SMT SO14
R79		W100 475R 1% 0805 SMT RES	R169		W125 47K5 1% 0805 SMT RES	U8		TDA8950TH 2DAMP HSOP-24 SMT
R80		W100 4K99 1% 0805 SMT RES	R170		W100 4K99 1% 0805 SMT RES	U9		V1000 DIG REVERB SMT IC SO16W
R81		W125 249R0 1% 0805 SMT RES	R171		W125 249R0 1% 0805 SMT RES	U10		V4220M STEREO CODEC SMT IC SSOP28
R82		W100 2K74 1% 0805 SMT RES	R172		W100 270K 5% 0603 SMT RES	U11		MC33079D QUAD OPAMP SMT SO14
R83A		W125 8K25 1% 0805 SMT RES	R173		W100 4K32 1% 0805 SMT RES	U12		33078 DUAL OPAMP SMT SO-8
R83B		W125 8K25 1% 0805 SMT RES	R174		W125 39K2 1% 0805 SMT RES	U13		33078 DUAL OPAMP SMT SO-8
R83C		W125 8K25 1% 0805 SMT RES	R175		W250 10R 5% 1206 SMT RES	U14		MC33063ADR BUCK/BOOST INV IC SO8
R84		W100 4K99 1% 0805 SMT RES	R176		W250 10R 5% 1206 SMT RES	U15		LM13700M XCONDUCTANC AMP SMT IC
R85		W100 1K0 1% 0805 SMT RES	R177		W250 10R 5% 1206 SMT RES	U16		TCM809S RESET SENSE SMT SOT23B
R86		W100 10K0 1% 0603 SMT RES	R178		W250 10R 5% 1206 SMT RES	U17		BM20 BLUETOOTH AUDIO SMT MOD
R87		W100 4K99 1% 0805 SMT RES	R179		W125 39K2 1% 0805 SMT RES	U25		SN74AHC1G86 SINGLE XOR SMT SOT235
R88		W100 4K99 1% 0805 SMT RES	R180		W125 39K2 1% 0805 SMT RES	W1	3538	24 PIN BREAKAWAY LOCK .156
R91		W125 1K21 1% 0805 SMT RES	R181		W100 18K2 1% 0805 SMT RES	W2	3538	24 PIN BREAKAWAY LOCK .156
R94		W125 1K54 1% 0805 SMT RES	R182		W250 4R7 5% 1206 SMT RES	W3	2358	9 CIR XH-HEADER 0.098IN
R95		W100 4K99 1% 0805 SMT RES	R183		W100 1K0 1% 0805 SMT RES	W4	2358	9 CIR XH-HEADER 0.098IN
R96		W100 10K0 1% 0603 SMT RES	R184		W125 3K01 1% 0805 SMT RES	W6	2372	8 CIR PH-HEADER 2MM
R97		W100 4R7 5% 0805 SMT RES	R185		W250 10R 5% 1206 SMT RES	W6	2372	8 CIR PH-HEADER 2MM
R98		W100 22R 5% 2512 SMT RES	R186		W250 10R 5% 1206 SMT RES	Y1		12.288 CRYSTAL 2-PIN 4.5MM SMT
R99		W100 47R 5% 2512 SMT RES	R187		W250 10R 5% 1206 SMT RES			
R100		W100 4K99 1% 0805 SMT RES	R188		W250 10R 5% 1206 SMT RES			
R102		W100 47R 5% 2512 SMT RES	R189		W250 10R 5% 1206 SMT RES			
R103		W125 82K5 1% 0805 SMT RES	R190		W100 22R 5% 2512 SMT RES			
R104		W100 10K0 1% 0603 SMT RES	R192		W100 392R 1% 0805 SMT RES			
R105		W100 2K74 1% 0805 SMT RES	R193		W100 392R 1% 0805 SMT RES			
R106		W125 40K2 1% 0805 SMT RES	R201		W125 0R 5% 0805 SMT RES			
R107		W100 2K74 1% 0805 SMT RES	R202		W125 0R 5% 0805 SMT RES			
R108		W100 2K74 1% 0805 SMT RES	R203	6505	0R41 1W2 0.65AMP PTC AUTOFUS			
R109		W100 2K74 1% 0805 SMT RES	R204		W125 1K21 1% 0805 SMT RES			
R110		W100 2K74 1% 0805 SMT RES	R205		W125 1K21 1% 0805 SMT RES			
R111		W100 2K74 1% 0805 SMT RES	R206A		W125 3K92 1% 0805 SMT RES			
R112		W125 30K 0.5% 0805 SMT RES	R206B		W125 3K92 1% 0805 SMT RES			
R113		W100 475K 1% 0805 SMT RES	R206C		W125 3K92 1% 0805 SMT RES			
R114		W100 4K99 1% 0805 SMT RES	R207		W100 4K99 1% 0805 SMT RES			
R115		W125 47K5 1% 0805 SMT RES	R208		W100 4K99 1% 0805 SMT RES			
R116		W100 4K99 1% 0805 SMT RES	R209		W100 4K99 1% 0805 SMT RES			
R117		W100 4K99 1% 0805 SMT RES	R210		W100 2K74 1% 0805 SMT RES			
R118		W100 2K74 1% 0805 SMT RES	R211		W125 10R0 1% 0805 SMT RES			
R119		W125 22K 5% 0805 SMT RES	R213		W125 82K5 1% 0805 SMT RES			

M1916 06 P1 Parts Reference List 4/12/2022

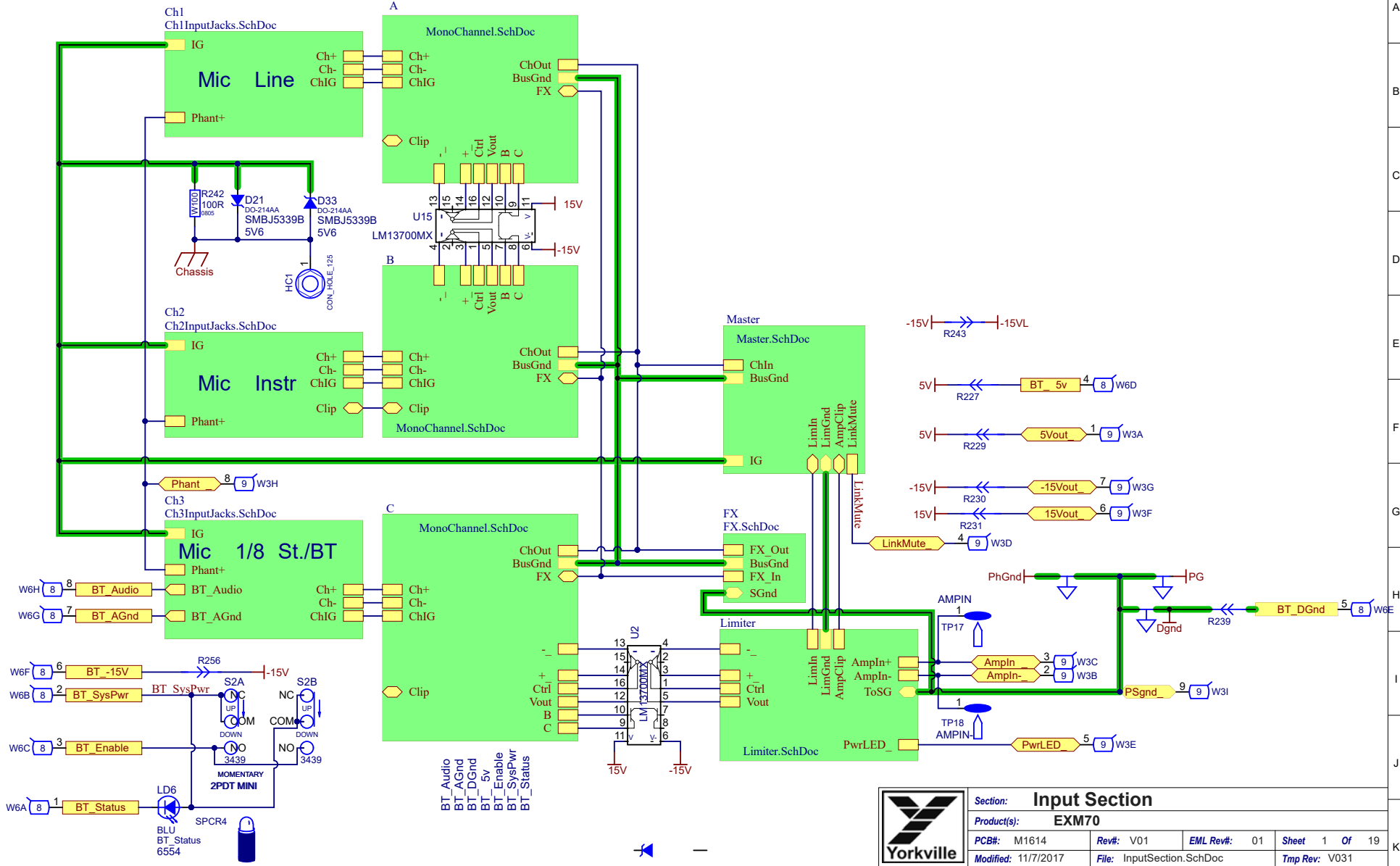
REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
A1-ASS	M1916-59	EXM70 M1912 M1913 M1942 BRDS	C51		330P 50V 5%CAP 0805 SMT NPO	C134		10N 50V 5%CAP 1206 SMT NPO	D32B		PMLL1418 75V OA2 SOD80C SMT	R1B		W100 1K0 1% 0805 SMT RES			
BM3		W250 2R4 5% 1206 SMT RES	C52	5240	680N 63V 10%CAP T&R RAD 2FLM	C138		10U 25V 20%CAP 5X5.4 SMT EL	D32C		PMLL1418 75V OA2 SOD80C SMT	R1C		W100 1K0 1% 0805 SMT RES			
C1		4U7 25V 20%CAP 4X5.5 SMT ELC	C53	5240	680N 63V 10%CAP T&R RAD 2FLM	C139		10U 25V 20%CAP 5X5.4 SMT EL	D33		PMLL1418 75V OA2 SOD80C SMT	R2		W100 4K99 1% 0805 SMT RES			
C2		10U 25V 20%CAP 5X5.4 SMT EL	C54		150N 25V 10%CAP 0603 SMT X7R	C140		10U 25V 20%CAP 5X5.4 SMT EL	D34		PMLL1418 75V OA2 SOD80C SMT	R3		W100 4K99 1% 0805 SMT RES			
C3		10U 25V 20%CAP 5X5.4 SMT EL	C55	5231	220N 63V 5%CAP T&R RAD 2FLM	C143A		180P 50V 5%CAP 0805 SMT NPO	D35		PMLL1418 75V OA2 SOD80C SMT	R4		W125 10R0 1% 0805 SMT RES			
C4		4U7 25V 20%CAP 4X5.5 SMT ELC	C56	5231	220N 63V 5%CAP T&R RAD 2FLM	C143B		180P 50V 5%CAP 0805 SMT NPO	D36		PMLL1418 75V OA2 SOD80C SMT	R6		W100 4K99 1% 0805 SMT RES			
C5		4U7 25V 20%CAP 4X5.5 SMT ELC	C57		10U 25V 20%CAP 5X5.4 SMT EL	C143C		180P 50V 5%CAP 0805 SMT NPO	D37		PMLL1418 75V OA2 SOD80C SMT	R7		W100 4K99 1% 0805 SMT RES			
C6		10U 25V 20%CAP 5X5.4 SMT EL	C58		150N 25V 10%CAP 0603 SMT X7R	C144		1U 50V 20%CAP 3.3MM SMT ELE	D39		PMLL1418 75V OA2 SOD80C SMT	R8		W100 4K99 1% 0805 SMT RES			
C7		10U 25V 20%CAP 5X5.4 SMT EL	C59		330P 50V 5%CAP 0805 SMT NPO	C145		4U7 25V 20%CAP 4X5.5 SMT ELC	D40		PMLL1418 75V OA2 SOD80C SMT	R9		W100 4K99 1% 0805 SMT RES			
C8		150N 50V 5%CAP 1206 SMT X7R	C60		100U 25V 20%CAP 8X5.4 SMT ELE	C146		100N 50V 5%CAP 0805 SMT X7R	D41		PMLL1418 75V OA2 SOD80C SMT	R10		W100 4K99 1% 0805 SMT RES			
C9		150N 50V 5%CAP 1206 SMT X7R	C61		10N 50V 5%CAP 1206 SMT NPO	C147		1U0 50V 10%CAP 1206 SMT CER	D42		PMLL1418 75V OA2 SOD80C SMT	R11		W100 4K99 1% 0805 SMT RES			
C10		33N 50V 5%CAP 0805 SMT X7R	C64		10N 50V 5%CAP 1206 SMT NPO	C152		180P 50V 5%CAP 0805 SMT NPO	D44		PMLL1418 75V OA2 SOD80C SMT	R12		W100 2K0 1% 0805 SMT RES			
C11		330P 50V 5%CAP 0805 SMT NPO	C65		100U 25V 20%CAP 8X5.4 SMT ELE	C154		10N 50V 5%CAP 1206 SMT NPO	D45		PMLL1418 75V OA2 SOD80C SMT	R14		W125 22K 5% 0805 SMT RES			
C12		4N7 50V 10%CAP 0805 SMT X7R	C66		10N 50V 5%CAP 1206 SMT NPO	C155		100N 50V 5%CAP 0805 SMT X7R	D46		SMBJ5339B 5V6 5W0 DO214AA SMT ZEN	R15		W100 4K99 1% 0805 SMT RES			
C13		22U 16V 20%CAP 5X5.5 SMT ELC	C67		10N 50V 5%CAP 1206 SMT NPO	C156		100N 50V 5%CAP 0805 SMT X7R	D47		MMBZ5227B 3V6 0W35 5% SMT ZEN	R16		W125 47K5 1% 0805 SMT RES			
C14		270P 50V 5%CAP 0805 SMT NPO	C68		150N 25V 10%CAP 0603 SMT X7R	C157		100N 50V 5%CAP 0805 SMT X7R	D48		PMLL1418 75V OA2 SOD80C SMT	R17		W100 10K0 1% 0805 SMT RES			
C15		100P 50V 10%CAP 0805 SMT NPO	C69		330P 50V 5%CAP 0805 SMT NPO	C158		100N 50V 5%CAP 0805 SMT X7R	D50		PMLL1418 75V OA2 SOD80C SMT	R18		W100 10K0 1% 0805 SMT RES			
C16		10U 25V 20%CAP 5X5.4 SMT EL	C70	5240	680N 63V 10%CAP T&R RAD 2FLM	C159		100N 50V 5%CAP 0805 SMT X7R	F1	2494	FUSE 5A0 250V TIME DELAY T&R	R19		W100 1M0 1% 0805 SMT RES			
C17		10U 25V 20%CAP 5X5.4 SMT EL	C71	5240	680N 63V 10%CAP T&R RAD 2FLM	C160		22U 16V 20%CAP 5X5.5 SMT ELC	RS1	Z1891	TDA3116 HEATSINK	R20		W100 4K99 1% 0805 SMT RES			
C18		10U 25V 20%CAP 5X5.4 SMT EL	C72		220U 35V 20%CAP 8X10 SMT ELE	C161	5212	100N 100V 5%CAP T&R RAD 2FLM	SR1	4236	GAPPAD GR25A 2.00MM 14X11MM	R21		W100 4K99 1% 0805 SMT RES			
C19		4U7 25V 20%CAP 4X5.5 SMT ELC	C73		1N 50V 5%CAP 0805 SMT NPO	C162	5212	100N 100V 5%CAP T&R RAD 2FLM	SN9	8741	4.40X1/2 PAN PHIL MS TBZ	R22		W100 4K99 1% 0805 SMT RES			
C20		4U7 25V 20%CAP 4X5.5 SMT ELC	C74		100N 50V 5%CAP 0805 SMT X7R	C163		150N 25V 10%CAP 0603 SMT X7R	SR10	8741	4.40X1/2 PAN PHIL MS TBZ	R25		W100 4K99 1% 0805 SMT RES			
C21A		4U7 25V 20%CAP 4X5.5 SMT ELC	C75		100N 50V 5%CAP 0805 SMT X7R	C164		150N 25V 10%CAP 0603 SMT X7R	SR11	8793	4.40 HEX NUT ZINC	R26		W100 4K99 1% 0805 SMT RES			
C21B		4U7 25V 20%CAP 4X5.5 SMT ELC	C76		100N 50V 5%CAP 0805 SMT X7R	C165		150N 25V 10%CAP 0603 SMT X7R	SR12	8793	4.40 HEX NUT ZINC	R28A		W100 10K0 1% 0805 SMT RES			
C22A		10N 50V 5%CAP 1206 SMT NPO	C77		10U 25V 20%CAP 5X5.4 SMT EL	C166		150N 25V 10%CAP 0603 SMT X7R	SR23	8701	4.40 KEPS NUT ZINC	R29		W100 10K0 1% 0805 SMT RES			
C22B		10N 50V 5%CAP 1206 SMT NPO	C78		1N5 50V 5%CAP 0805 SMT NPO	C167		150P 50V 5%CAP 0805 SMT NPO	SR24	8701	4.40 KEPS NUT ZINC	R29A		W125 200K 1% 0805 SMT RES			
C22C		10N 50V 5%CAP 1206 SMT NPO	C79		100N 50V 5%CAP 0805 SMT X7R	C168	5226	68N 100V 5%CAP T&R RAD 2FLM	SR1	4154	1/4&XLR PCB MT VERT ACJCA6V2L	R29B		W125 200K 1% 0805 SMT RES			
C23A		47P 50V 5%CAP 0805 SMT NPO	C80		100N 50V 5%CAP 0805 SMT X7R	C169		100N 50V 5%CAP 0805 SMT X7R	SR2	4152	1/4+SW&XLR PCB MT VERT ACJCAV2L	R30A		W100 10K0 1% 0805 SMT RES			
C23B		47P 50V 5%CAP 0805 SMT NPO	C81		100N 50V 5%CAP 0805 SMT X7R	C171		10N 50V 5%CAP 1206 SMT NPO	SR3	4010	XLR FEML PCB MT VERT 24MM AA-SERIES	R30B		W100 10K0 1% 0805 SMT RES			
C23C		330P 50V 5%CAP 0805 SMT NPO	C82		10N 50V 5%CAP 1206 SMT NPO	C172		100N 50V 5%CAP 0805 SMT X7R	SR4	4218	3.5MM JCK PCB MT V ST 5PIN SUB 4186	R31A		W100 1K0 1% 0805 SMT RES			
C24A		82N 100V 10%CAP 0805 SMT X7R	C83		100N 50V 5%CAP 0805 SMT X7R	C173		100N 50V 5%CAP 0805 SMT X7R	SR5	4010	XLR FEML PCB MT VERT 24MM AA-SERIES	R31B		W100 1K0 1% 0805 SMT RES			
C24B		82N 100V 10%CAP 0805 SMT X7R	C84		10U 25V 20%CAP 5X5.4 SMT EL	C174		100N 50V 5%CAP 0805 SMT X7R	SR6	4140	XLR MALE PCB MT VERT 24MM A-SERIES	R31C		W100 1K0 1% 0805 SMT RES			
C24C		82N 100V 10%CAP 0805 SMT X7R	C85		100N 50V 5%CAP 0805 SMT X7R	C175		10U 25V 20%CAP 5X5.4 SMT EL	SR1		10.00H 20% COIL 12MM SMT	R32		W125 562R0 1% 0805 SMT RES			
C24D		1N5 50V 5%CAP 0805 SMT NPO	C86		10U 25V 20%CAP 5X5.4 SMT EL	C177		100N 50V 5%CAP 0805 SMT X7R	SR2		10.00H 20% COIL 12MM SMT	R33A		W100 10K0 1% 0805 SMT RES			
C25B		1N5 50V 5%CAP 0805 SMT NPO	C87		22P 50V 5%CAP 0805 SMT NPO	C178		680U 6V3 20%CAP 8X10 SMT ELE	SR3		10.00H 20% COIL 12MM SMT	R33B		W100 10K0 1% 0805 SMT RES			
C25C		1N5 50V 5%CAP 0805 SMT NPO	C88		22P 50V 5%CAP 0805 SMT NPO	C179		1U0 50V 10%CAP 1206 SMT CER	SR4		10.00H 20% COIL 12MM SMT	R33C		W100 10K0 1% 0805 SMT RES			
C26A		33N 50V 5%CAP 0805 SMT X7R	C89		100N 50V 5%CAP 0805 SMT X7R	C180		100N 100V 10%CAP 1206 SMT X7R	SR5		220.00H COIL SMT	R34A		W125 249R0 1% 0805 SMT RES			
C26B		33N 50V 5%CAP 0805 SMT X7R	C90		10U 25V 20%CAP 5X5.4 SMT EL	C187		4U7 25V 20%CAP 4X5.5 SMT ELC	SR6		1000UH COIL 6X6MM SMT	R34B		W125 249R0 1% 0805 SMT RES			
C26C		33N 50V 5%CAP 0805 SMT X7R	C91		10U 25V 20%CAP 5X5.4 SMT EL	C188		100N 50V 5%CAP 0805 SMT X7R	SR7		220.00H COIL SMT	R35A		W125 120K 1% 0805 SMT RES			
C27A		22U 16V 20%CAP 5X5.5 SMT ELC	C95		100N 100V 10%CAP 1206 SMT X7R	C189		100N 50V 5%CAP 0805 SMT X7R	SR8		1000UH COIL 6X6MM SMT	R35B		W125 120K 1% 0805 SMT RES			
C27B		22U 16V 20%CAP 5X5.5 SMT ELC	C96		100N 50V 5%CAP 0805 SMT X7R	C190		100N 50V 5%CAP 0805 SMT X7R	SR10		220.00H COIL SMT	R36		W125 100K0 1% 0805 SMT RES			
C27C		22U 16V 20%CAP 5X5.5 SMT ELC	C97		100N 50V 5%CAP 0805 SMT X7R	C191		100N 50V 5%CAP 0805 SMT X7R	SR11A		RED LED 1V5 20MA 1206 SMT	R37A		W125 249R0 1% 0805 SMT RES			
C28A		1N5 50V 5%CAP 0805 SMT NPO	C98		100N 50V 5%CAP 0805 SMT X7R	C192		100N 50V 5%CAP 0805 SMT X7R	SR11B		RED LED 1V5 20MA 1206 SMT	R37B		W125 249R0 1% 0805 SMT RES			
C28B		1N5 50V 5%CAP 0805 SMT NPO	C99		100N 50V 5%CAP 0805 SMT X7R	D1		B160-E3 60V 1A0 SCH DO214AC SMT	SR11C		RED LED 1V5 20MA 1206 SMT	R37C		W100 4K99 1% 0805 SMT RES			
C28C		1N5 50V 5%CAP 0805 SMT NPO	C100		100N 50V 5%CAP 0805 SMT X7R	D2A		PMLL1418 75V OA2 SOD80C SMT	SR12		RD/IGN LED 1V7 20MA 0606 SMT	R38B		W100 4K99 1% 0805 SMT RES			
C29A		10U 25V 20%CAP 5X5.4 SMT EL	C101		100N 50V 5%CAP 0805 SMT X7R	D2B		PMLL1418 75V OA2 SOD80C SMT	SR13A		BLU LED 2V8 20MA 1206 SMT	R39A		W100 10M 1% 0805 SMT RES			
C29B		10U 25V 20%CAP 5X5.4 SMT EL	C102		100N 100V 10%CAP 1206 SMT X7R	D3A		RLZ7.5B 7V5 0W5 6% SMT ZEN	M1919		LM339M QUAD SS COMP SMT SO-14	R39B		W100 10M 1% 0805 SMT RES			
C29C		10U 25V 20%CAP 5X5.4 SMT EL	C103		150N 25V 10%CAP 0603 SMT X7R	D3B		RLZ7.5B 7V5 0W5 6% SMT ZEN	M1940		LM339M QUAD SS COMP SMT SO-14	R40A		W125 47K5 1% 0805 SMT RES			
C30A		82N 100V 10%CAP 0805 SMT X7R	C104		1U 50V 20%CAP 3.3MM SMT ELE	D3C		RLZ7.5B 7V5 0W5 6% SMT ZEN	M1941		LM339M QUAD SS COMP SMT SO-14	R40B		W125 47K5 1% 0805 SMT RES			
C30B		82N 100V 10%CAP 0805 SMT X7R	C105		10U 25V 20%CAP 5X5.4 SMT EL	D4A		PMLL1418 75V OA2 SOD80C SMT	P1A	4486	20K 5C R/A 9MM DET HI TORQ P32	R41A		W100 1K0 1% 0805 SMT RES			
C30C		82N 100V 10%CAP 0805 SMT X7R	C106		1U 50V 20%CAP 3.3MM SMT ELE	D4B		PMLL1418 75V OA2 SOD80C SMT	P1B	4486	20K 5C R/A 9MM DET HI TORQ P32	R41B		W100 1K0 1% 0805 SMT RES			
C31A		100N 50V 5%CAP 0805 SMT X7R	C107		100U 25V 20%CAP 8X5.4 SMT ELE	D4C		PMLL1418 75V OA2 SOD80C SMT	P1C	4486	20K 5C R/A 9MM DET HI TORQ P32	R41C		W100 1K0 1% 0805 SMT RES			
C31B		100N 50V 5%CAP 0805 SMT X7R	C108		1U 50V 20%CAP 3.3MM SMT ELE	D6A		PMLL1418 75V OA2 SOD80C SMT	P2A	4472	10K B LIN 9MM P35	R42A		W100 4K75 1% 0805 SMT RES			
C31C		100N 50V 5%CAP 0805 SMT X7R	C109		100N 50V 5%CAP 0805 SMT X7R	D6B		PMLL1418 75V OA2 SOD80C SMT	P2B	4472	10K B LIN 9MM P35	R42B		W100 4K75 1% 0805 SMT RES			
C32A		100N 50V 5%CAP 0805 SMT X7R	C110	5204	10N 100V 10%CAP T&R RAD 2FLM	D8A		MMBZ5227B 3V6 0W35 5% SMT ZEN	P2C	4472	10K B LIN 9MM P35	R42C		W100 4K75 1% 0805 SMT RES			
C32B		100N 50V 5%CAP 0805 SMT X7R	C111	5209	4N7 250V 5%CAP T&R RAD 2FLM	D8B		MMBZ5227B 3V6 0W35 5% SMT ZEN	P3A	4471	50K B LIN 9MM P35	R43A		W100 2K0 1% 0805 SMT RES			
C32C		100N 50V 5%CAP 0805 SMT X7R	C112	5209	4N7 250V 5%CAP T&R RAD 2FLM	D9		B160-E3 60V 1A0 SCH DO214AC SMT	P3B	4471	50K B LIN 9MM P35	R43B		W100 2K0 1% 0805 SMT RES			
C34		1N 50V 5%CAP 0805 SMT NPO	C113		1N 50V 5%CAP 0805 SMT NPO	D9H		PMLL1418 75V OA2 SOD80C SMT	P3C	4471	50K B LIN 9MM P35	R43C		W100 2K0 1% 0805 SMT RES			
C36		1N 50V 5%CAP 0805 SMT NPO	C114		180P 50V 5%CAP 0805 SMT NPO	D9L		CDBF0130L 30V 1A SCH SOD323F SMT	P5	4433	50K B LIN 9MM P32	R45A		W100 10K0 1% 0805 SMT RES			
C37		1N 50V 5%CAP 0805 SMT NPO	C115		10N 50V 5%CAP 1206 SMT NPO	D10H		PMLL1418 75V OA2 SOD80C SMT	PCB1		1 OZ 2SD 79.5SQIN 01PER MOBILE	R45B		W100 10K0 1% 0805 SMT RES			
C37H		270P 50V 5%CAP 0805 SMT NPO	C116		100N 50V 5%CAP 0805 SMT X7R	D11A		PMLL1418 75V OA2 SOD80C SMT	O1A		MMBT3906LT1 PNP SOT-23 SMT T&R	R45C		W100 10K0 1% 0805 SMT RES			
C37L		270P 50V 5%CAP 0805 SMT NPO	C117	5209	4N7 250V 5%CAP T&R RAD 2FLM	D11B		PMLL1418 75V OA2 SOD80C SMT	O1B		MMBT3906LT1 PNP SOT-23 SMT T&R	R46C		W125 249R0 1% 0805 SMT RES			
C38H		4U7 25V 20%CAP 4X5.5 SMT ELC	C118		150P 50V 5%CAP 0805 SMT NPO	D11C		PMLL1418 75V OA2 SOD80C SMT	O4A		MMBT414 NPN DARL SOT-23 SMT	R46B		W125 249R0 1% 0805 SMT RES			
C39		47P 50V 5%CAP 0805 SMT NPO	C119		150P 50V 5%CAP 0805 SMT NPO	D11H		PMLL1418 75V OA2 SOD80C SMT	O								

M1916 06 P2 Parts Reference List 4/12/2022

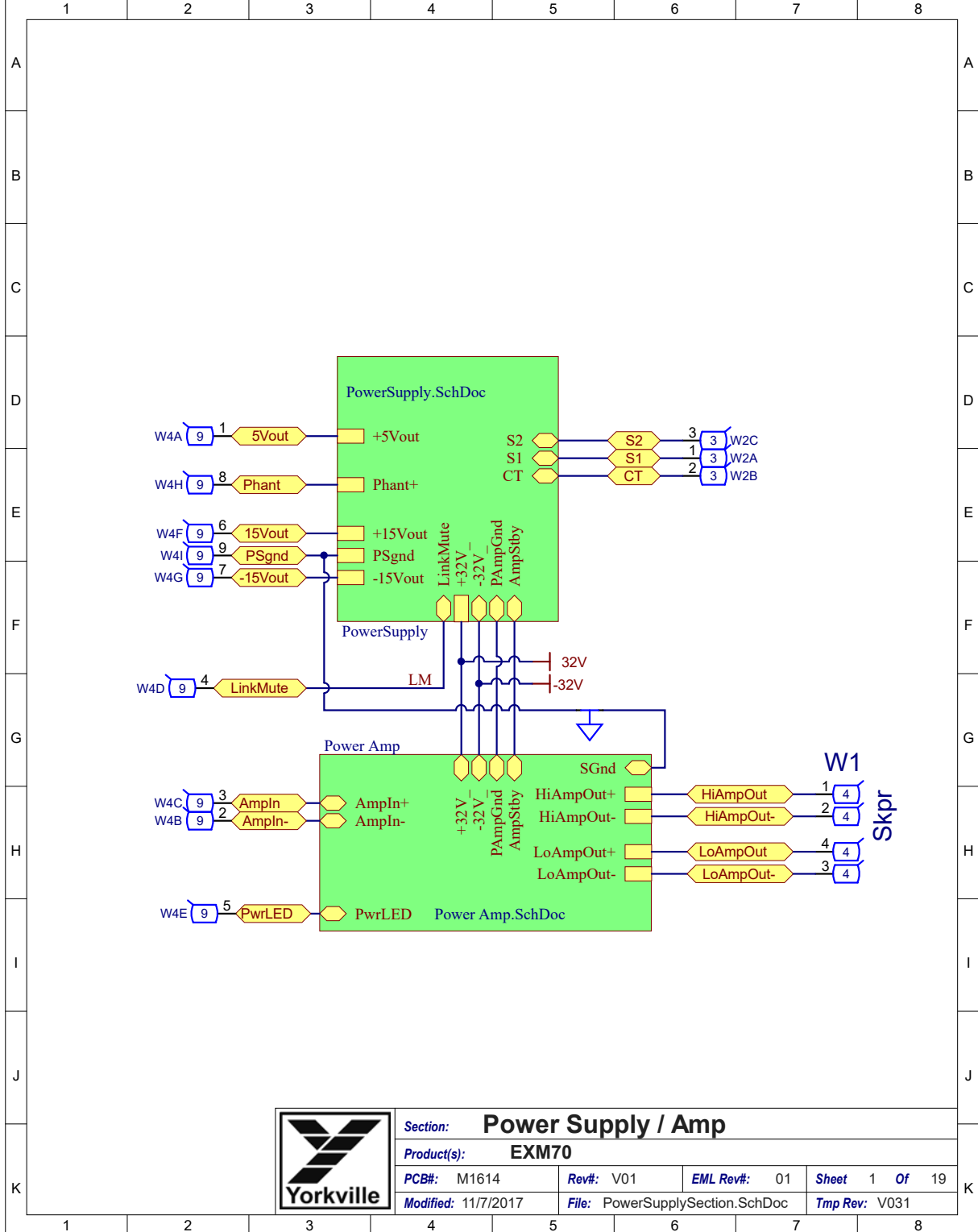
REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
R53C		W100 100R 1% 0805 SMT RES	R110L		W125 47K5 1% 0805 SMT RES	R189		W250 2R4 5% 1206 SMT RES	U8		TPA3116D2DAD ST AMP TSSOP32P IC SMT			
R54A		W125 8K25 1% 0805 SMT RES	R111H		W100 100R 1% 0805 SMT RES	R190		W250 2R4 5% 1206 SMT RES	U9		V1000 DIG REVERB SMT IC SO16W			
R54B		W125 8K25 1% 0805 SMT RES	R111L		W100 100R 1% 0805 SMT RES	R191		W250 2R4 5% 1206 SMT RES	U10		V4220M STEREO CODEC SMT IC SSOP28			
R54C		W125 8K25 1% 0805 SMT RES	R112		W100 475R 1% 0805 SMT RES	R192		W100 1K0 1% 0805 SMT RES	U11		33078 DUAL OPAMP SMT SO-8			
R55A		W100 20K5 1% 0805 SMT RES	R112H		W125 64K9 1% 0805 SMT RES	R197		W125 47K5 1% 0805 SMT RES	U12		33078 DUAL OPAMP SMT SO-8			
R55B		W100 20K5 1% 0805 SMT RES	R112L		W125 47K5 1% 0805 SMT RES	R198		W125 1K21 1% 0805 SMT RES	U13		33078 DUAL OPAMP SMT SO-8			
R55C		W125 47K5 1% 0805 SMT RES	R113		W100 10K0 1% 0805 SMT RES	R199		W125 5K76 1% 0805 SMT RES	U14		33078 DUAL OPAMP SMT SO-8			
R56A		W125 120K 1% 0805 SMT RES	R113H		W100 13K 1% 0805 SMT RES	R200		W100 1K0 1% 0805 SMT RES	U16		33078 DUAL OPAMP SMT SO-8			
R56B		W125 120K 1% 0805 SMT RES	R113L		W100 13K 1% 0805 SMT RES	R207		W125 47K5 1% 0805 SMT RES	U17		BM20 BLUETOOTH AUDIO SMT MOD			
R57A		W125 249R0 1% 0805 SMT RES	R114		W100 10K0 1% 0805 SMT RES	R209		W125 5K76 1% 0805 SMT RES	U18		MC33063ADR BUCK/BOOST INV IC SO8			
R57B		W125 249R0 1% 0805 SMT RES	R114L		W100 475K 1% 0805 SMT RES	R213		W100 100R 1% 0805 SMT RES	U19		LM13700M XCONDUCTANC AMP SMT IC			
R57C		W125 249R0 1% 0805 SMT RES	R115H		W100 100R 1% 0805 SMT RES	R215		W125 100K0 1% 0805 SMT RES	U22		33078 DUAL OPAMP SMT SO-8			
R58A		W125 562R0 1% 0805 SMT RES	R115L		W100 100R 1% 0805 SMT RES	R217		W125 1K21 1% 0805 SMT RES	U24		LM13700M XCONDUCTANC AMP SMT IC			
R58B		W125 562R0 1% 0805 SMT RES	R116		W100 10K0 1% 0805 SMT RES	R222		W100 4K99 1% 0805 SMT RES	U25		SN74AHC1G86 SINGLE XOR SMT SOT235			
R58C		W125 562R0 1% 0805 SMT RES	R116H		W100 10K0 1% 0805 SMT RES	R223		W100 4K99 1% 0805 SMT RES	U26		MC33063ADR BUCK/BOOST INV IC SO8			
R59A		W100 4K99 1% 0805 SMT RES	R116L		W100 10K0 1% 0805 SMT RES	R224		W125 47K5 1% 0805 SMT RES	U27		MC33063ADR BUCK/BOOST INV IC SO8			
R59B		W100 4K99 1% 0805 SMT RES	R117		W125 120K 1% 0805 SMT RES	R225		W125 47K5 1% 0805 SMT RES	U29		33078 DUAL OPAMP SMT SO-8			
R59C		W100 4K99 1% 0805 SMT RES	R117H		W100 10M 1% 0805 SMT RES	R227		W100 10M 1% 0805 SMT RES	U30A		33078 DUAL OPAMP SMT SO-8			
R60A		W100 2K0 1% 0805 SMT RES	R117L		W100 10M 1% 0805 SMT RES	R230		W100 10K0 1% 0805 SMT RES	U30B		33078 DUAL OPAMP SMT SO-8			
R60B		W100 2K0 1% 0805 SMT RES	R118		W125 64K9 1% 0805 SMT RES	R231		W125 120K 1% 0805 SMT RES	U30C		33078 DUAL OPAMP SMT SO-8			
R60C		W100 2K0 1% 0805 SMT RES	R118H		W100 10M 1% 0805 SMT RES	R234		W125 100K0 1% 0805 SMT RES	W1	3538	24 PIN BREAKAWAY LOCK .156			
R61A		W100 10K0 1% 0805 SMT RES	R118L		W100 10M 1% 0805 SMT RES	R241		W100 100R 1% 0805 SMT RES	W2	2371	2 CIR WS-HEADER 0.156			
R61B		W100 10K0 1% 0805 SMT RES	R119		W100 10K0 1% 0805 SMT RES	R244		W100 4K99 1% 0805 SMT RES	W3	2395	12 CIR PH-HEADER 2MM			
R61C		W100 10K0 1% 0805 SMT RES	R119H		W100 15K0 1% 0805 SMT RES	R245		W100 39R 5% 0805 SMT RES	W3	2395	12 CIR PH-HEADER 2MM			
R63		W125 200K 1% 0805 SMT RES	R119L		W100 15K0 1% 0805 SMT RES	R247		W100 4K99 1% 0805 SMT RES	W6	2370	7 CIR PH-HEADER 2MM			
R64A		W125 249R0 1% 0805 SMT RES	R120		W125 0R 5% 0805 SMT RES	R248		W100 4K99 1% 0805 SMT RES	W6	2370	7 CIR PH-HEADER 2MM			
R64B		W125 249R0 1% 0805 SMT RES	R120L		W125 8K25 1% 0805 SMT RES	R250		W100 2K74 1% 0805 SMT RES	Y1		12.288 CRYSTAL 2-PIN 4.5MM SMT			
R64C		W125 249R0 1% 0805 SMT RES	R121		W125 10R0 1% 0805 SMT RES	R254		W100 2K0 1% 0805 SMT RES						
R65A		W125 249R0 1% 0805 SMT RES	R122		W125 64K9 1% 0805 SMT RES	R260		W100 2K0 1% 0805 SMT RES						
R65B		W125 249R0 1% 0805 SMT RES	R124		W125 10R0 1% 0805 SMT RES	R267		W125 249R0 1% 0805 SMT RES						
R65C		W125 249R0 1% 0805 SMT RES	R125		W125 10R0 1% 0805 SMT RES	R269		W100 475R 1% 0805 SMT RES						
R66A		W100 4K99 1% 0805 SMT RES	R126		W125 5K76 1% 0805 SMT RES	R270		W125 6K20 1% 0805 SMT RES						
R66B		W100 4K99 1% 0805 SMT RES	R127		W500 3R3 5% 1210 SMT RES	R272		W125 82K5 1% 0805 SMT RES						
R66C		W100 4K99 1% 0805 SMT RES	R128		W500 3R3 5% 1210 SMT RES	R273		W100 10K0 1% 0805 SMT RES						
R68		W100 475R 1% 0805 SMT RES	R129		W500 3R3 5% 1210 SMT RES	R274		W100 10K0 1% 0805 SMT RES						
R69		W125 1K21 1% 0805 SMT RES	R130		W500 3R3 5% 1210 SMT RES	R275		W100 10K0 1% 0805 SMT RES						
R70		W100 1K0 1% 0805 SMT RES	R131		W125 10R0 1% 0805 SMT RES	R276		W100 27K4 1% 0805 SMT RES						
R71		W125 3K92 1% 0805 SMT RES	R138		W125 100K0 1% 0805 SMT RES	R277		W100 15K0 1% 0805 SMT RES						
R72		W100 4K99 1% 0805 SMT RES	R142		W125 120K 1% 0805 SMT RES	R278		W125 6K20 1% 0805 SMT RES						
R73		W125 22K 5% 0805 SMT RES	R143		W250 2R4 5% 1206 SMT RES	R280		W100 15K0 1% 0805 SMT RES						
R74		W125 3K92 1% 0805 SMT RES	R144		W250 2R4 5% 1206 SMT RES	R281		W100 20K5 1% 0805 SMT RES						
R75		W100 1K0 1% 0805 SMT RES	R145		W100 1K0 1% 0805 SMT RES	R283		W100 4K99 1% 0805 SMT RES						
R76		W125 47K5 1% 0805 SMT RES	R146		W125 100K0 1% 0805 SMT RES	R284		W125 562R0 1% 0805 SMT RES						
R77		W125 3K92 1% 0805 SMT RES	R147		W125 1K21 1% 0805 SMT RES	R285		W100 20K5 1% 0805 SMT RES						
R78		W125 3K92 1% 0805 SMT RES	R148		W250 1R 5% 1206 SMT RES	R286		W100 15K0 1% 0805 SMT RES						
R80		W100 10K0 1% 0805 SMT RES	R149		W250 1R 5% 1206 SMT RES	R287		W100 100R 1% 0805 SMT RES						
R81		W125 249R0 1% 0805 SMT RES	R150		W125 22K 5% 0805 SMT RES	R288		W100 100R 1% 0805 SMT RES						
R82		W100 4K99 1% 0805 SMT RES	R151		W125 200K 1% 0805 SMT RES	R291		W100 10K0 1% 0805 SMT RES						
R83A		W125 8K25 1% 0805 SMT RES	R152		W100 10K0 1% 0805 SMT RES	R292		W100 6K98 1% 0805 SMT RES						
R83B		W125 8K25 1% 0805 SMT RES	R153		W100 10K0 1% 0805 SMT RES	R294		W125 47K5 1% 0805 SMT RES						
R83C		W125 8K25 1% 0805 SMT RES	R154		W125 22K 5% 0805 SMT RES	R296		W125 3K32 1% 0805 SMT RES						
R84		W100 4K99 1% 0805 SMT RES	R155		W125 22K 5% 0805 SMT RES	R298		W100 6K98 1% 0805 SMT RES						
R85		W100 1K0 1% 0805 SMT RES	R156		W100 10K0 1% 0805 SMT RES	R299		W100 2K0 1% 0805 SMT RES						
R86		W100 10K0 1% 0805 SMT RES	R157		W125 249R0 1% 0805 SMT RES	R300		W100 10K0 1% 0805 SMT RES						
R87		W100 10K0 1% 0805 SMT RES	R158		W125 100K0 1% 0805 SMT RES	R301		W100 100R 1% 0805 SMT RES						
R88		W100 4K99 1% 0805 SMT RES	R159		W100 1M0 1% 0805 SMT RES	R302		W100 10K0 1% 0805 SMT RES						
R90		W125 249K 1% 0805 SMT RES	R160		W100 1K0 1% 0805 SMT RES	R303		W100 10M 1% 0805 SMT RES						
R91A		W100 10K0 1% 0805 SMT RES	R161		W100 10K0 1% 0805 SMT RES	R304		W125 562R0 1% 0805 SMT RES						
R91B		W100 10K0 1% 0805 SMT RES	R162		W100 10K0 1% 0805 SMT RES	R305		W100 100R 1% 0805 SMT RES						
R94		W125 100K0 1% 0805 SMT RES	R163		W125 4M7 5% 0805 SMT RES	R306		W100 10M 1% 0805 SMT RES						
R95		W100 4K99 1% 0805 SMT RES	R164		W125 22K 5% 0805 SMT RES	R307		W125 100K0 1% 0805 SMT RES						
R96		W125 100K0 1% 0805 SMT RES	R167		W100 2K74 1% 0805 SMT RES	R308		W100 1M0 1% 0805 SMT RES						
R98		W125 100K0 1% 0805 SMT RES	R168		W125 249R0 1% 0805 SMT RES	R309		W100 1M0 1% 0805 SMT RES						
R100		W100 10K0 1% 0805 SMT RES	R169		W100 10K0 1% 0805 SMT RES	R310		W100 1M0 1% 0805 SMT RES						
R101L		W125 4K32 1% 0805 SMT RES	R171		W100 1M0 1% 0805 SMT RES	R311		W100 1M0 1% 0805 SMT RES						
R103H		W125 3K32 1% 0805 SMT RES	R173		W125 4K32 1% 0805 SMT RES	R312		W100 10K0 1% 0805 SMT RES						
R103L		W100 6K98 1% 0805 SMT RES	R174		W125 39K2 1% 0805 SMT RES	R320		W100 475K 1% 0805 SMT RES						
R104H		W100 4K75 1% 0805 SMT RES	R175		W100 1K0 1% 0805 SMT RES	R321		W125 47K5 1% 0805 SMT RES						
R104L		W100 13K 1% 0805 SMT RES	R176		W100 2K0 1% 0805 SMT RES	R332		W125 100K0 1% 0805 SMT RES						
R105H		W100 4K75 1% 0805 SMT RES	R178		W250 2R4 5% 1206 SMT RES	R333		W125 0R 5% 0805 SMT RES						
R105L		W100 4K75 1% 0805 SMT RES	R179		W125 47K5 1% 0805 SMT RES	S1	4189	DP4T NONSHORTING VERT ROT SWT						
R106H		W125 47K5 1% 0805 SMT RES	R180		W125 47K5 1% 0805 SMT RES	S2	3439	DPDT MINI PC VERT MOMENTARY						
R106L		W125 47K5 1% 0805 SMT RES	R181		W125 30K 0.5% 0805 SMT RES	S3	3522	DPDT MINI PC VERT SMT ALT						
R107H		W100 10K0 1% 0805 SMT RES	R183		W100 100R 1% 0805 SMT RES	SNL1	8370	1 MIL POLYIMIDE LABEL, 1" X .380"						
R107L		W125 47K5 1% 0805 SMT RES	R184		W100 100R 1% 0805 SMT RES	U1		LM358D DUAL SS OPAMP SMT SO-8						
R108H		W125 562R0 1% 0805 SMT RES	R185		W125 0R 5% 0805 SMT RES	U2		33078 DUAL OPAMP SMT SO-8						
R108L		W100 2K0 1% 0805 SMT RES	R186		W100 100R 1% 0805 SMT RES	U3		TL072 DUAL OPAMP SMT SO-8						
R109H		W100 18K2 1% 0805 SMT RES	R188		W125 100K0 1% 0805 SMT RES	U4		33078 DUAL OPAMP SMT SO-8						
R109L		W100 18K2 1% 0805 SMT RES	R188H		W125 5K36 1% 0805 SMT RES	U5		LM393D DUAL COMPARTOR SMT SO-8						
R110H		W100 10K0 1% 0805 SMT RES	R188L		W100 6K98 1% 0805 SMT RES	U7		LM13700M XCONDUCTANC AMP SMT IC						

M2212-02 Parts Reference List 2024-01-24

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
AI-ASS	M2212-59	EXM70 INPUT PCB												
C1		4U7 25V 20%CAP 4X5.5 SMT ELC	C98		100N 50V 5%CAP 0805 SMT X7R	Q4B		MMBTA14 NPN DARL SOT-23 SMT	R45		W100 10K0 1% 0805 SMT RES	R94		W125 100K0 1% 0805 SMT RES
C2		10U 25V 20%CAP 5X5.4 SMT EL	C102		100N 100V 10%CAP 1206 SMT X7R	Q4C		MMBTA14 NPN DARL SOT-23 SMT	R45A		W100 10K0 1% 0805 SMT RES	R98		W125 100K0 1% 0805 SMT RES
C3		10U 25V 20%CAP 5X5.4 SMT EL	C106		1U 50V 20%CAP 3.3MM SMT ELE	Q6		MMBFJ110 NCH JFET SOT-23 SMT	R45B		W100 10K0 1% 0805 SMT RES	R112		W100 475R 1% 0805 SMT RES
C4		4U7 25V 20%CAP 4X5.5 SMT ELC	C128A		100P 50V 10%CAP 0805 SMT NPO	Q28		BC847C 0.1A NPN 45V SOT-23 SMT	R45C		W100 10K0 1% 0805 SMT RES	R113		W100 10K0 1% 0805 SMT RES
C5		4U7 25V 20%CAP 4X5.5 SMT ELC	C128B		100P 50V 10%CAP 0805 SMT NPO	Q31		BC847C 0.1A NPN 45V SOT-23 SMT	R46		W100 10K0 1% 0805 SMT RES	R176		W100 2K0 1% 0805 SMT RES
C6		10U 25V 20%CAP 5X5.4 SMT EL	C128C		100P 50V 10%CAP 0805 SMT NPO	Q37		BC847C 0.1A NPN 45V SOT-23 SMT	R46A		W125 249R0 1% 0805 SMT RES	R183		W100 100R 1% 0805 SMT RES
C7		10U 25V 20%CAP 5X5.4 SMT EL	C134		10N 50V 5%CAP 1206 SMT NPO	Q38		MMBT3906LT1 PNP SOT-23 SMT T&R	R46B		W125 249R0 1% 0805 SMT RES	R184		W100 100R 1% 0805 SMT RES
C8		150N 50V 5%CAP 1206 SMT X7R	C139		10U 25V 20%CAP 5X5.4 SMT EL	R1		W100 20K5 1% 0805 SMT RES	R46C		W125 249R0 1% 0805 SMT RES	R186		W100 100R 1% 0805 SMT RES
C9		150N 50V 5%CAP 1206 SMT X7R	C140		10U 25V 20%CAP 5X5.4 SMT EL	R1A		W100 1K0 1% 0805 SMT RES	R47		W100 1K0 1% 0805 SMT RES	R192		W100 1K0 1% 0805 SMT RES
C10		33N 50V 5%CAP 0805 SMT X7R	C143A		180P 50V 5%CAP 0805 SMT NPO	R1B		W100 1K0 1% 0805 SMT RES	R47A		W125 562R0 1% 0805 SMT RES	R197		W125 47K5 1% 0805 SMT RES
C11		330P 50V 5%CAP 0805 SMT NPO	C143B		180P 50V 5%CAP 0805 SMT NPO	R1C		W100 1K0 1% 0805 SMT RES	R47B		W125 562R0 1% 0805 SMT RES	R213		W100 100R 1% 0805 SMT RES
C12		4N7 50V 10%CAP 0805 SMT X7R	C143C		180P 50V 5%CAP 0805 SMT NPO	R2		W100 4K99 1% 0805 SMT RES	R47C		W125 562R0 1% 0805 SMT RES	R222		W100 4K99 1% 0805 SMT RES
C13		22U 16V 20%CAP 5X5.5 SMT ELC	C144		1U 50V 20%CAP 3.3MM SMT ELE	R3		W100 4K99 1% 0805 SMT RES	R48		W100 475R 1% 0805 SMT RES	R223		W100 4K99 1% 0805 SMT RES
C14		270P 50V 5%CAP 0805 SMT NPO	C159		100N 50V 5%CAP 0805 SMT X7R	R6		W100 4K99 1% 0805 SMT RES	R48A		W100 4K99 1% 0805 SMT RES	R224		W125 47K5 1% 0805 SMT RES
C15		100P 50V 10%CAP 0805 SMT NPO	C160		22U 16V 20%CAP 5X5.5 SMT ELC	R7		W100 4K99 1% 0805 SMT RES	R48B		W100 4K99 1% 0805 SMT RES	R225		W125 47K5 1% 0805 SMT RES
C16		10U 25V 20%CAP 5X5.4 SMT EL	C171		10N 50V 5%CAP 1206 SMT NPO	R8		W100 4K99 1% 0805 SMT RES	R48C		W100 4K99 1% 0805 SMT RES	R227		W100 27K4 1% 0805 SMT RES
C17		10U 25V 20%CAP 5X5.4 SMT EL	C172		100N 50V 5%CAP 0805 SMT X7R	R9		W100 4K99 1% 0805 SMT RES	R49		W100 10K0 1% 0805 SMT RES	R230		W100 10K0 1% 0805 SMT RES
C18		10U 25V 20%CAP 5X5.4 SMT EL	C175		10U 25V 20%CAP 5X5.4 SMT EL	R10		W100 4K99 1% 0805 SMT RES	R49A		W100 475K 1% 0805 SMT RES	R231		W125 120K 1% 0805 SMT RES
C19		4U7 25V 20%CAP 4X5.5 SMT ELC	C177		100N 50V 5%CAP 0805 SMT X7R	R11		W100 4K99 1% 0805 SMT RES	R49B		W100 475K 1% 0805 SMT RES	R244		W100 4K99 1% 0805 SMT RES
C20		4U7 25V 20%CAP 4X5.5 SMT ELC	C179		1U0 50V 10%CAP 1206 SMT CER	R12		W100 2K0 1% 0805 SMT RES	R49C		W100 475K 1% 0805 SMT RES	R247		W100 4K99 1% 0805 SMT RES
C21		220P 100V 10%CAP 0805 SMT X7R	C180		100N 100V 10%CAP 1206 SMT X7R	R14		W125 22K 5% 0805 SMT RES	R50		W100 475K 1% 0805 SMT RES	R248		W100 4K99 1% 0805 SMT RES
C21A		4U7 25V 20%CAP 4X5.5 SMT ELC	C188		100N 50V 5%CAP 0805 SMT X7R	R15		W100 4K99 1% 0805 SMT RES	R51		W100 10K0 1% 0805 SMT RES	R260		W100 2K0 1% 0805 SMT RES
C21B		4U7 25V 20%CAP 4X5.5 SMT ELC	C189		100N 50V 5%CAP 0805 SMT X7R	R16		W125 47K5 1% 0805 SMT RES	R51C		W100 12K1 1% 0603 SMT RES	R276		W100 27K4 1% 0805 SMT RES
C22		100N 50V 5%CAP 0805 SMT X7R	C190		100N 50V 5%CAP 0805 SMT X7R	R17		W100 10K0 1% 0805 SMT RES	R52C		W100 12K1 1% 0603 SMT RES	R277		W100 15K0 1% 0805 SMT RES
C22A		10N 50V 5%CAP 1206 SMT NPO	D2		PMLL4148 75V 0A2 SOD80C SMT	R18		W100 10K0 1% 0805 SMT RES	R53		W100 20K5 1% 0805 SMT RES	R278		W125 6K20 1% 0805 SMT RES
C22B		10N 50V 5%CAP 1206 SMT NPO	D2A		PMLL4148 75V 0A2 SOD80C SMT	R19		W100 1M0 1% 0805 SMT RES	R53A		W100 100R 1% 0805 SMT RES	R280		W100 15K0 1% 0805 SMT RES
C22C		10N 50V 5%CAP 1206 SMT NPO	D2B		PMLL4148 75V 0A2 SOD80C SMT	R20		W100 4K99 1% 0805 SMT RES	R53B		W100 100R 1% 0805 SMT RES	R283		W100 4K99 1% 0805 SMT RES
C23		1N 50V 5%CAP 0805 SMT NPO	D3		PMLL4148 75V 0A2 SOD80C SMT	R21		W100 4K99 1% 0805 SMT RES	R53C		W100 100R 1% 0805 SMT RES	R284		W125 562R0 1% 0805 SMT RES
C23A		47P 50V 5%CAP 0805 SMT NPO	D3A		RLZ7.5B 7V5 0W5 6% SMT ZEN	R22		W100 4K99 1% 0805 SMT RES	R54A		W125 8K25 1% 0805 SMT RES	R285		W100 20K5 1% 0805 SMT RES
C23B		47P 50V 5%CAP 0805 SMT NPO	D3B		RLZ7.5B 7V5 0W5 6% SMT ZEN	R25		W100 4K99 1% 0805 SMT RES	R54B		W125 8K25 1% 0805 SMT RES	R286		W100 15K0 1% 0805 SMT RES
C23C		330P 50V 5%CAP 0805 SMT NPO	D3C		RLZ7.5B 7V5 0W5 6% SMT ZEN	R26		W100 4K99 1% 0805 SMT RES	R54C		W125 8K25 1% 0805 SMT RES	R291		W100 10K0 1% 0805 SMT RES
C24		1N 50V 5%CAP 0805 SMT NPO	D4A		PMLL4148 75V 0A2 SOD80C SMT	R28		W100 20K5 1% 0805 SMT RES	R55		W100 20K5 1% 0805 SMT RES	R292		W100 6K98 1% 0805 SMT RES
C24A		82N 100V 10%CAP 0805 SMT X7R	D4B		PMLL4148 75V 0A2 SOD80C SMT	R28A		W100 10K0 1% 0805 SMT RES	R55A		W100 20K5 1% 0805 SMT RES	R296		W125 3K32 1% 0805 SMT RES
C24B		82N 100V 10%CAP 0805 SMT X7R	D4C		PMLL4148 75V 0A2 SOD80C SMT	R28B		W100 10K0 1% 0805 SMT RES	R55B		W100 20K5 1% 0805 SMT RES	R298		W100 6K98 1% 0805 SMT RES
C24C		82N 100V 10%CAP 0805 SMT X7R	D6A		PMLL4148 75V 0A2 SOD80C SMT	R29		W100 10K0 1% 0805 SMT RES	R55C		W125 47K5 1% 0805 SMT RES	R299		W100 2K0 1% 0805 SMT RES
C25		100N 50V 5%CAP 0805 SMT X7R	D6B		PMLL4148 75V 0A2 SOD80C SMT	R29A		W125 200K 1% 0805 SMT RES	R56A		W125 120K 1% 0805 SMT RES	R300		W100 10K0 1% 0805 SMT RES
C25A		1N5 50V 5%CAP 0805 SMT NPO	D8A		MMBZ5227B 3V6 0W35 5% SMT ZEN	R29B		W100 4K99 1% 0805 SMT RES	R56B		W125 120K 1% 0805 SMT RES	R301		W100 100R 1% 0805 SMT RES
C25B		1N5 50V 5%CAP 0805 SMT NPO	D8B		MMBZ5227B 3V6 0W35 5% SMT ZEN	R30		W100 4K99 1% 0805 SMT RES	R57A		W125 249R0 1% 0805 SMT RES	R302		W100 10K0 1% 0805 SMT RES
C25C		1N5 50V 5%CAP 0805 SMT NPO	D11A		PMLL4148 75V 0A2 SOD80C SMT	R30A		W100 10K0 1% 0805 SMT RES	R57B		W125 249R0 1% 0805 SMT RES	R303		W100 10M 1% 0805 SMT RES
C26		10U 25V 20%CAP 5X5.4 SMT EL	D11B		PMLL4148 75V 0A2 SOD80C SMT	R30B		W100 10K0 1% 0805 SMT RES	R57C		W125 249R0 1% 0805 SMT RES	R304		W125 562R0 1% 0805 SMT RES
C26A		33N 50V 5%CAP 0805 SMT X7R	D11C		PMLL4148 75V 0A2 SOD80C SMT	R31		W100 10K0 1% 0805 SMT RES	R58A		W125 562R0 1% 0805 SMT RES	R305		W100 100R 1% 0805 SMT RES
C26B		33N 50V 5%CAP 0805 SMT X7R	D12		PMLL4148 75V 0A2 SOD80C SMT	R31A		W100 1K0 1% 0805 SMT RES	R58B		W125 562R0 1% 0805 SMT RES	R306		W100 10M 1% 0805 SMT RES
C26C		33N 50V 5%CAP 0805 SMT X7R	D16		SMBJ5339B 5V6 5W0 D0214AA SMT ZEN	R31B		W100 1K0 1% 0805 SMT RES	R58C		W125 562R0 1% 0805 SMT RES	R307		W125 100K0 1% 0805 SMT RES
C27A		22U 16V 20%CAP 5X5.5 SMT ELC	D17		PMLL4148 75V 0A2 SOD80C SMT	R31C		W100 1K0 1% 0805 SMT RES	R59A		W100 4K99 1% 0805 SMT RES	R308		W100 1M0 1% 0805 SMT RES
C27B		22U 16V 20%CAP 5X5.5 SMT ELC	D22		PMLL4148 75V 0A2 SOD80C SMT	R32		W125 562R0 1% 0805 SMT RES	R59B		W100 4K99 1% 0805 SMT RES	R309		W100 1M0 1% 0805 SMT RES
C27C		22U 16V 20%CAP 5X5.5 SMT ELC	D23		BAV21WS 200V 0A2 SOD323 SMT	R33A		W100 10K0 1% 0805 SMT RES	R59C		W100 4K99 1% 0805 SMT RES	R310		W100 1M0 1% 0805 SMT RES
C28		1N 50V 5%CAP 0805 SMT NPO	D32A		PMLL4148 75V 0A2 SOD80C SMT	R33B		W100 10K0 1% 0805 SMT RES	R60A		W100 2K0 1% 0805 SMT RES	R311		W100 1M0 1% 0805 SMT RES
C28A		1N5 50V 5%CAP 0805 SMT NPO	D32B		PMLL4148 75V 0A2 SOD80C SMT	R33C		W100 10K0 1% 0805 SMT RES	R60B		W100 2K0 1% 0805 SMT RES	R312		W100 10K0 1% 0805 SMT RES
C28B		1N5 50V 5%CAP 0805 SMT NPO	D32C		PMLL4148 75V 0A2 SOD80C SMT	R34		W100 4K99 1% 0805 SMT RES	R60C		W100 2K0 1% 0805 SMT RES	R332		W125 100K0 1% 0805 SMT RES
C28C		1N5 50V 5%CAP 0805 SMT NPO	D35		PMLL4148 75V 0A2 SOD80C SMT	R34A		W125 249R0 1% 0805 SMT RES	R61A		W100 10K0 1% 0805 SMT RES	R333		W125 0R 5% 0805 SMT RES
C29		10U 25V 20%CAP 5X5.4 SMT EL	D46		SMBJ5339B 5V6 5W0 D0214AA SMT ZEN	R34B		W125 249R0 1% 0805 SMT RES	R61B		W100 10K0 1% 0805 SMT RES	S1	4189	DP4T NONSHORTING VERT ROT SWT
C29A		10U 25V 20%CAP 5X5.4 SMT EL	D50		PMLL4148 75V 0A2 SOD80C SMT	R35		W100 20K5 1% 0805 SMT RES	R61C		W100 10K0 1% 0805 SMT RES	S2	3439	DPD2 MINI PC VERT MOMENTARY
C29B		10U 25V 20%CAP 5X5.4 SMT EL	J1	4154	1/4&XLR PCB MT VERT ACJC6AV2L	R35A		W125 120K 1% 0805 SMT RES	R64A		W125 249R0 1% 0805 SMT RES	S3	3522	DPD2 MINI PC VERT SNP ALT
C29C		10U 25V 20%CAP 5X5.4 SMT EL	J2	4152	1/4+SW&XLR PCB MT VERT ACJC9AV2L	R35B		W125 120K 1% 0805 SMT RES	R64B		W125 249R0 1% 0805 SMT RES	SNL1	8370	1 MIL POLYIMIDE LABEL, 1" X .380"
C30		100N 50V 5%CAP 0805 SMT X7R	J3	4010	XLR FEML PCB MT VERT 24MM AA-SERIES	R36		W125 100K0 1% 0805 SMT RES	R64C		W125 249R0 1% 0805 SMT RES	U2		33078 DUAL OPAMP SMT SO-8
C30A		82N 100V 10%CAP 0805 SMT X7R	J4	4218	3.5MM JCK PCB MT V ST 5PIN SUB 4186	R37		W125 1K21 1% 0805 SMT RES	R65A		W125 249R0 1% 0805 SMT RES	U3		TL072 DUAL OPAMP SMT SO-8
C30B		82N 100V 10%CAP 0805 SMT X7R	J5	4010	XLR FEML PCB MT VERT 24MM AA-SERIES	R37A		W125 249R0 1% 0805 SMT RES	R65B		W125 249R0 1% 0805 SMT RES	U4		33078 DUAL OPAMP SMT SO-8
C30C		82N 100V 10%CAP 0805 SMT X7R	J6	4140	XLR MALE PCB MT VERT 24MM A-SERIES	R37B		W125 249R0 1% 0805 SMT RES	R65C		W125 249R0 1% 0805 SMT RES	U5		FV-1 SPIN SEMI REVERB SMT IC
C31		100N 50V 5%CAP 0805 SMT X7R	LD1A		RED LED 1V5 2									



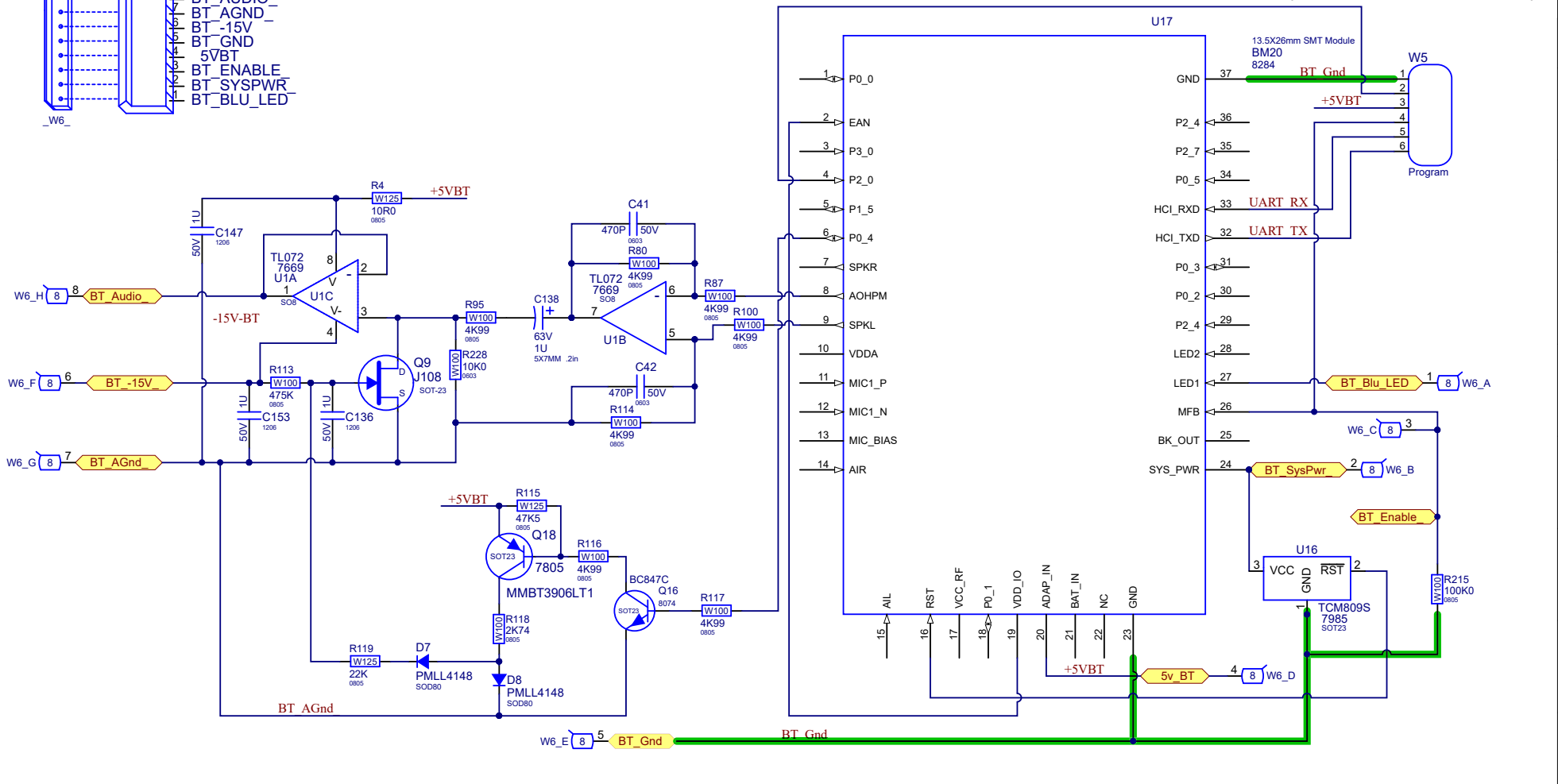
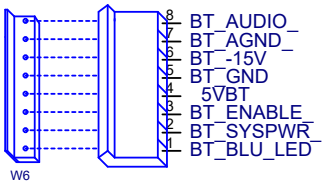
Section: Input Section	
Product(s): EXM70	
PCB#: M1614	Rev#: V01
Modified: 11/7/2017	File: InputSection.SchDoc
EML Rev#: 01	Sheet 1 Of 19
Tmp Rev: V031	



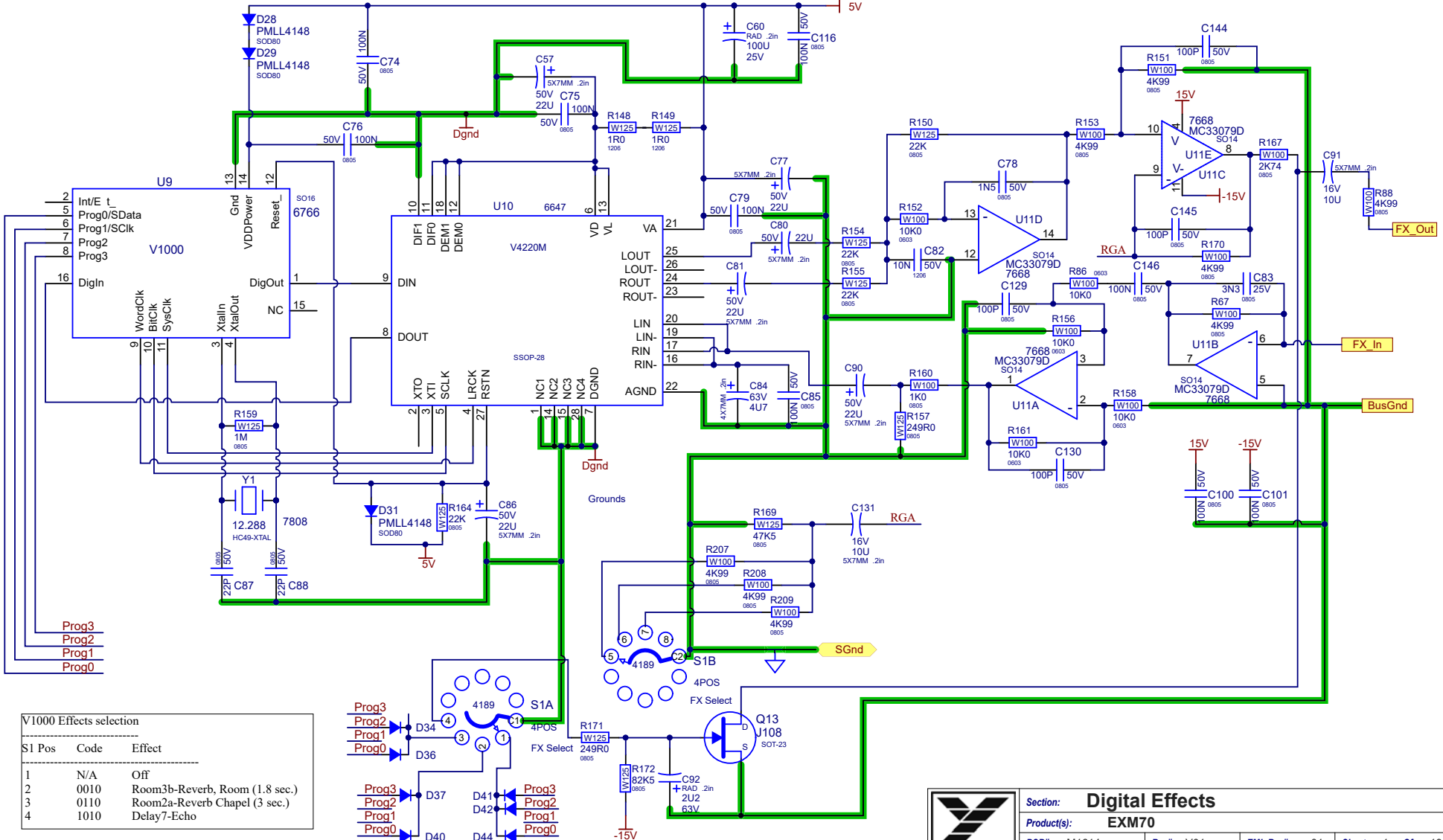
Section: Power Supply / Amp			
Product(s): EXM70			
PCB#: M1614	Rev#: V01	EML Rev#: 01	Sheet 1 Of 19
Modified: 11/7/2017	File: PowerSupplySection.SchDoc	Tmp Rev: V031	

Tag_Connect - UART PCB connections - W5

10	-	5v In	-	3
9,7,3	-	RX	-	5
1	-	BT_GND	-	1
2	-	P0_0	-	2
4	-	P2_4	-	4
6	-	TX	-	6



Section: Bluetooth			
Product(s): EXM70			
PCB#: M1614	Rev#: V01	EML Rev#: 01	Sheet 1 Of 19
Modified: 11/7/2017	File: BluetoothBM20.SchDoc	Tmp Rev: V031	

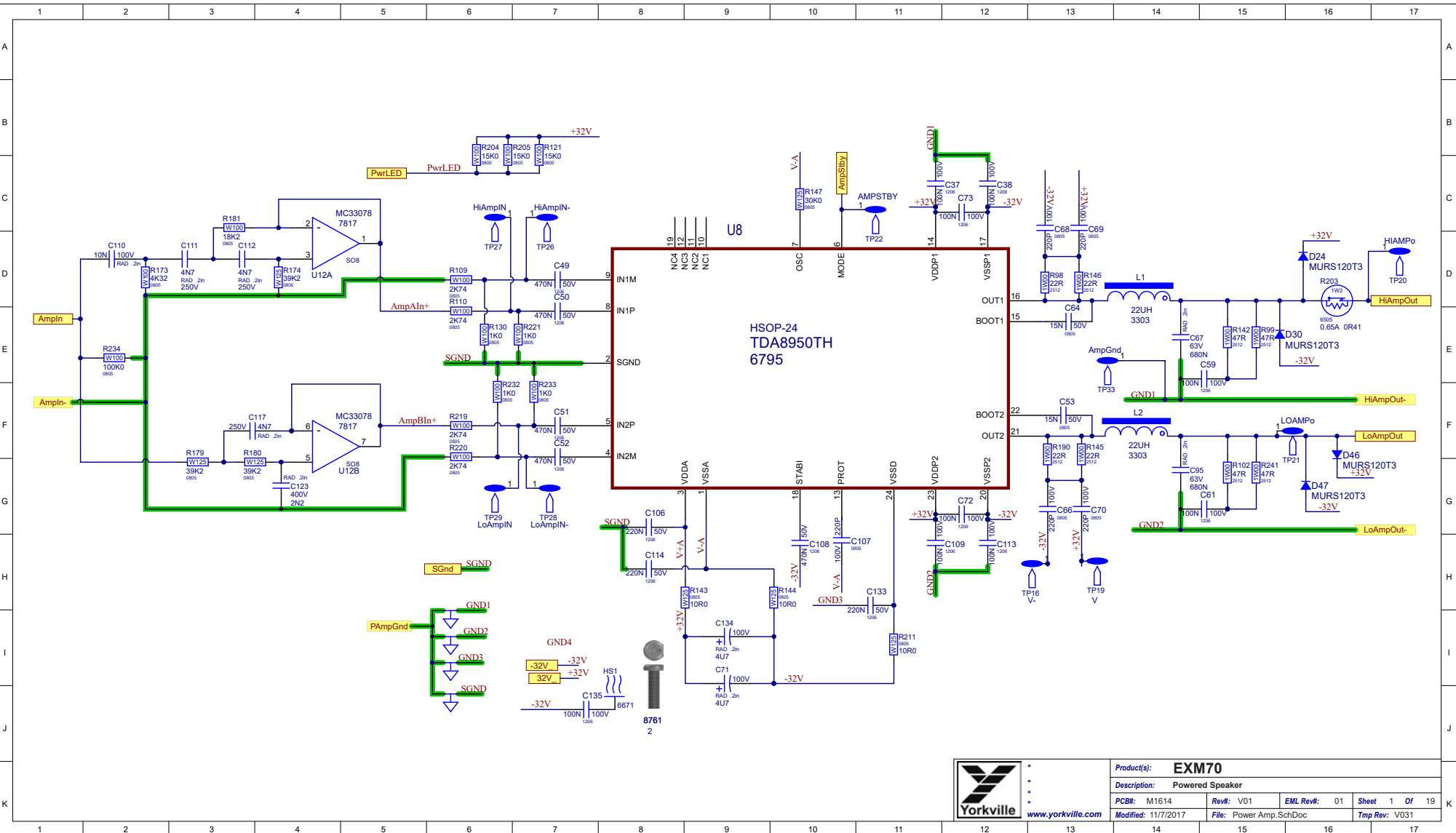


V1000 Effects selection

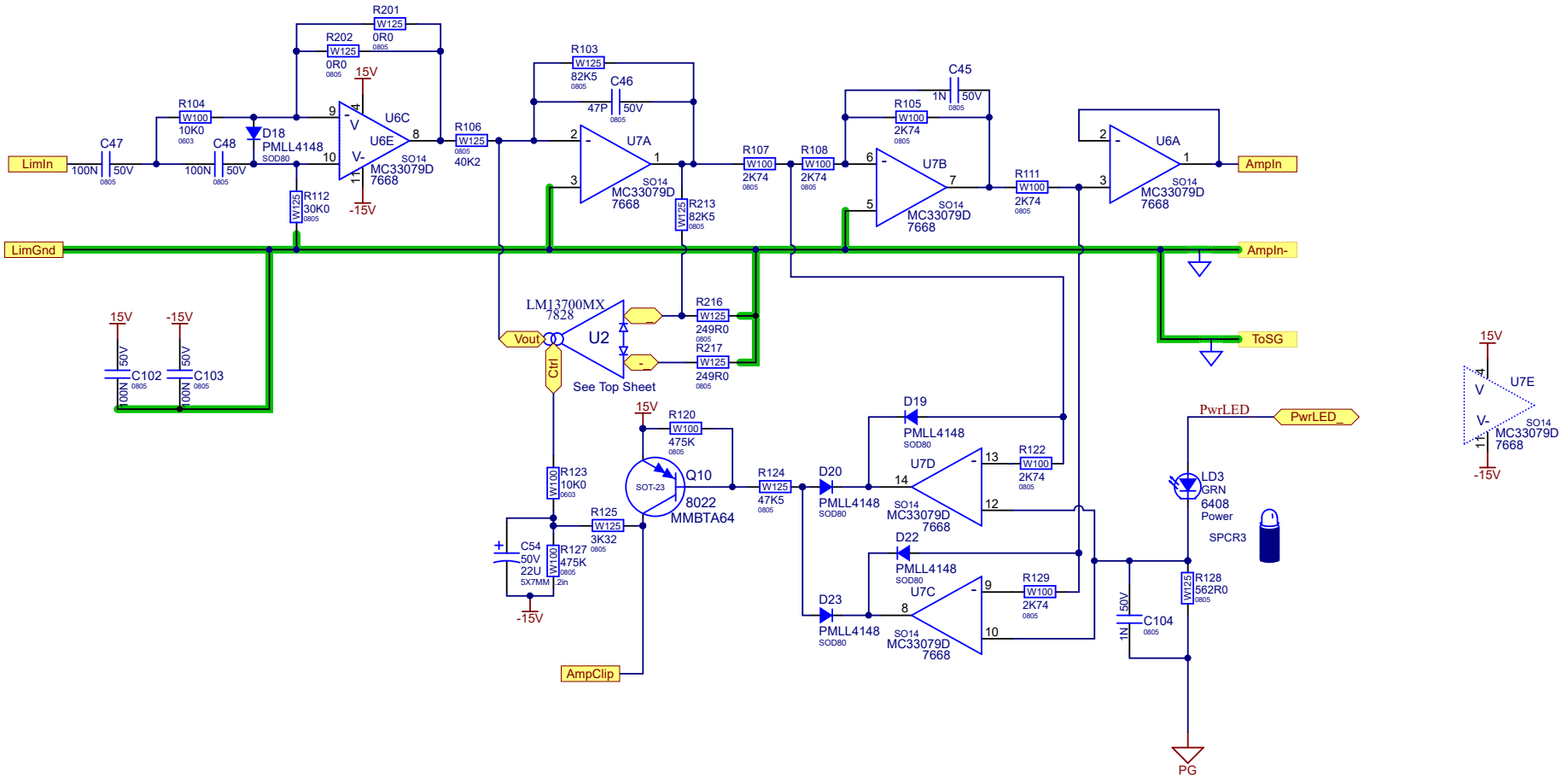
S1 Pos	Code	Effect
1	N/A	Off
2	0010	Room3b-Reverb, Room (1.8 sec.)
3	0110	Room2a-Reverb Chapel (3 sec.)
4	1010	Delay7-Echo



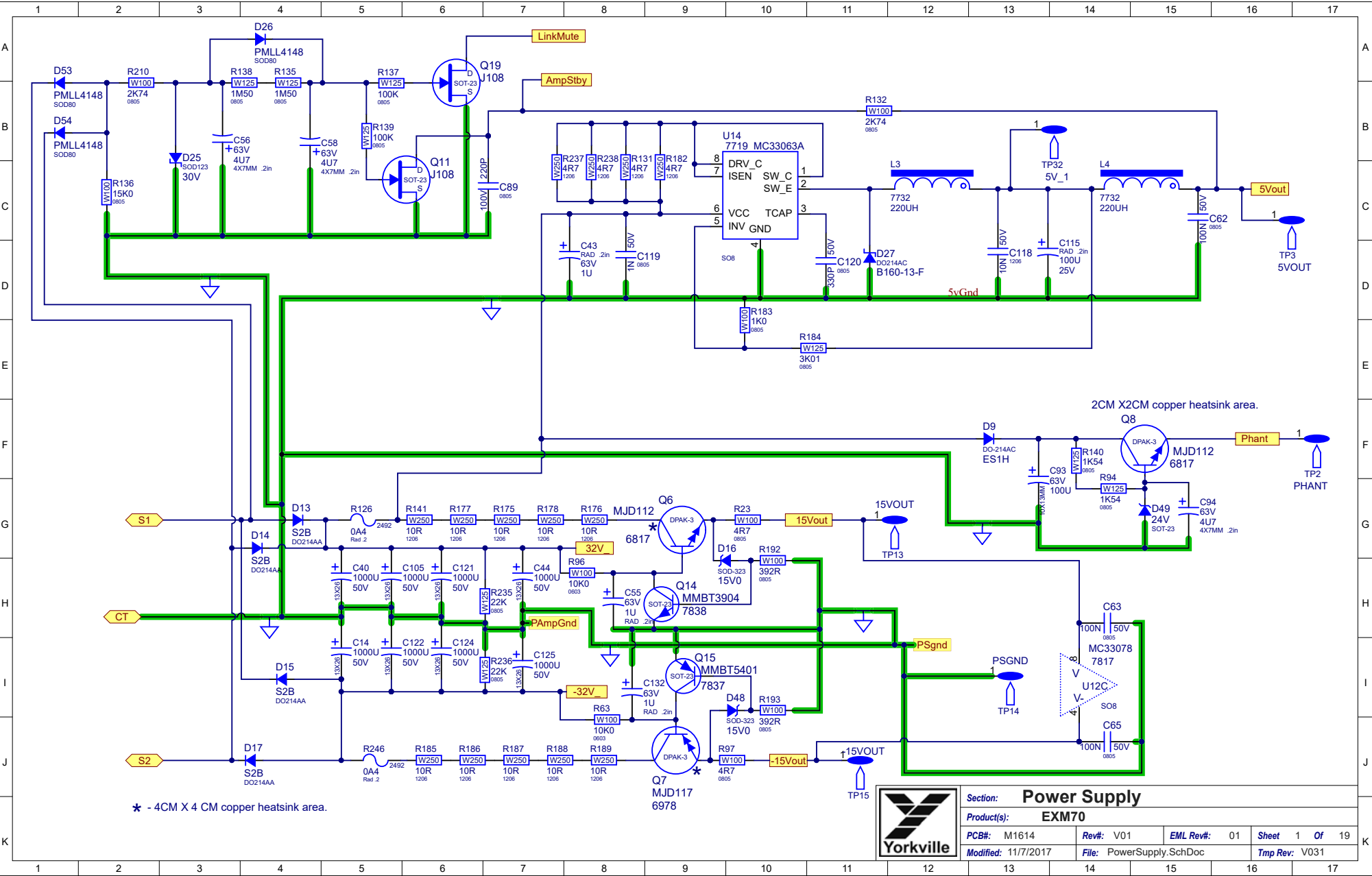
Section: Digital Effects			
Product(s): EXM70			
PCB#: M1614	Rev#: V01	EML Rev#: 01	Sheet 1 Of 19
Modified: 11/7/2017	File: FX.SchDoc	Tmp Rev: V031	



Product(s): EXM70	
Description: Powered Speaker	
PCB#: M1614	Rev#: V01
Modified: 11/7/2017	EML Rev#: 01
File: Power Amp.SchDoc	Sheet 1 Of 19
Tmp Rev: V031	



Section: Limiter	
Product(s): EXM70	
PCB#: M1614	Rev#: V01
Modified: 11/7/2017	EML Rev#: 01
File: Limiter.SchDoc	Sheet 1 Of 19
Temp Rev: V031	

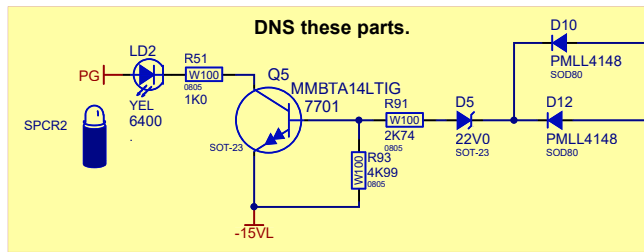
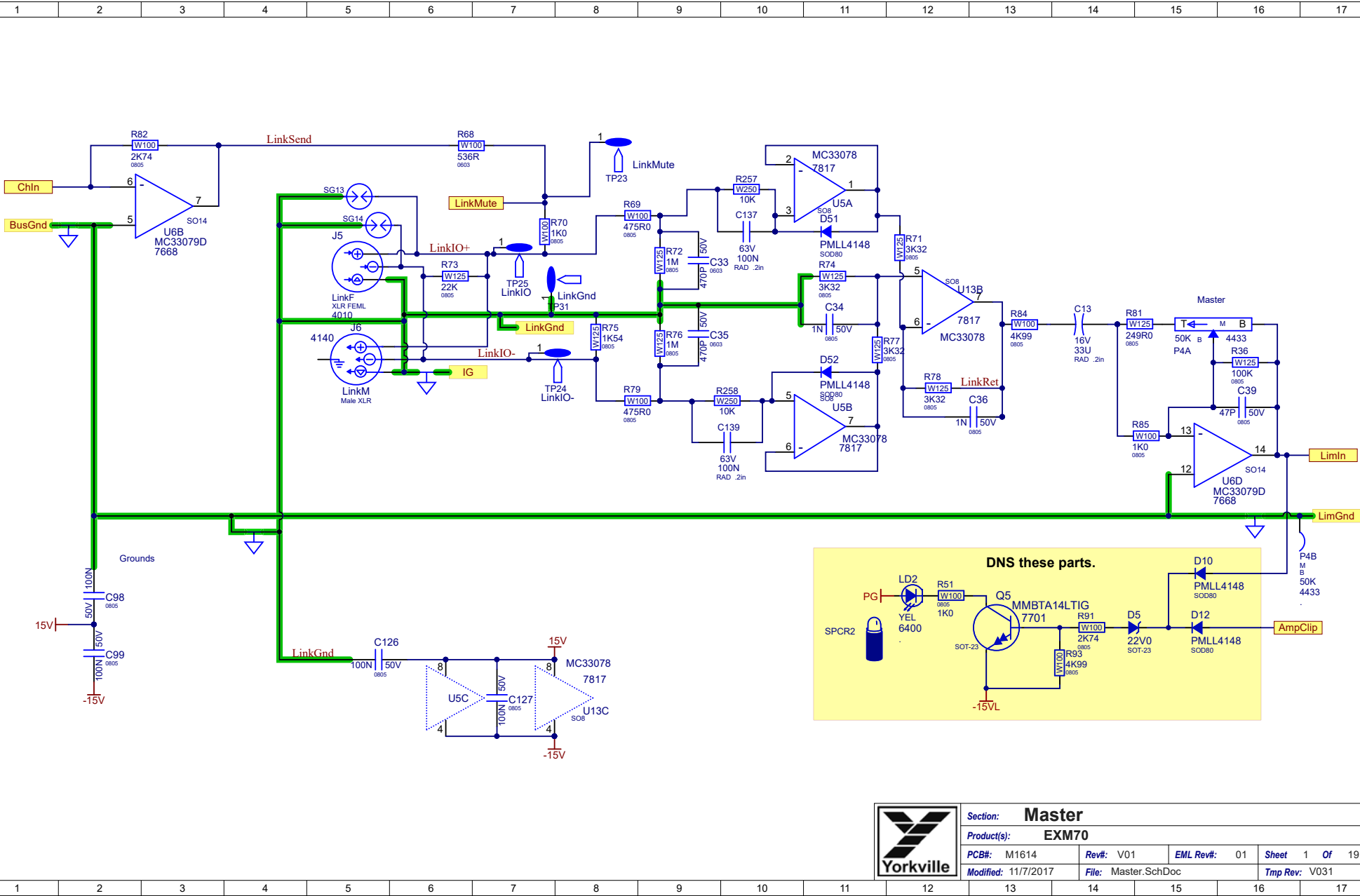


* - 4CM X 4 CM copper heatsink area.

2CM X2CM copper heatsink area.

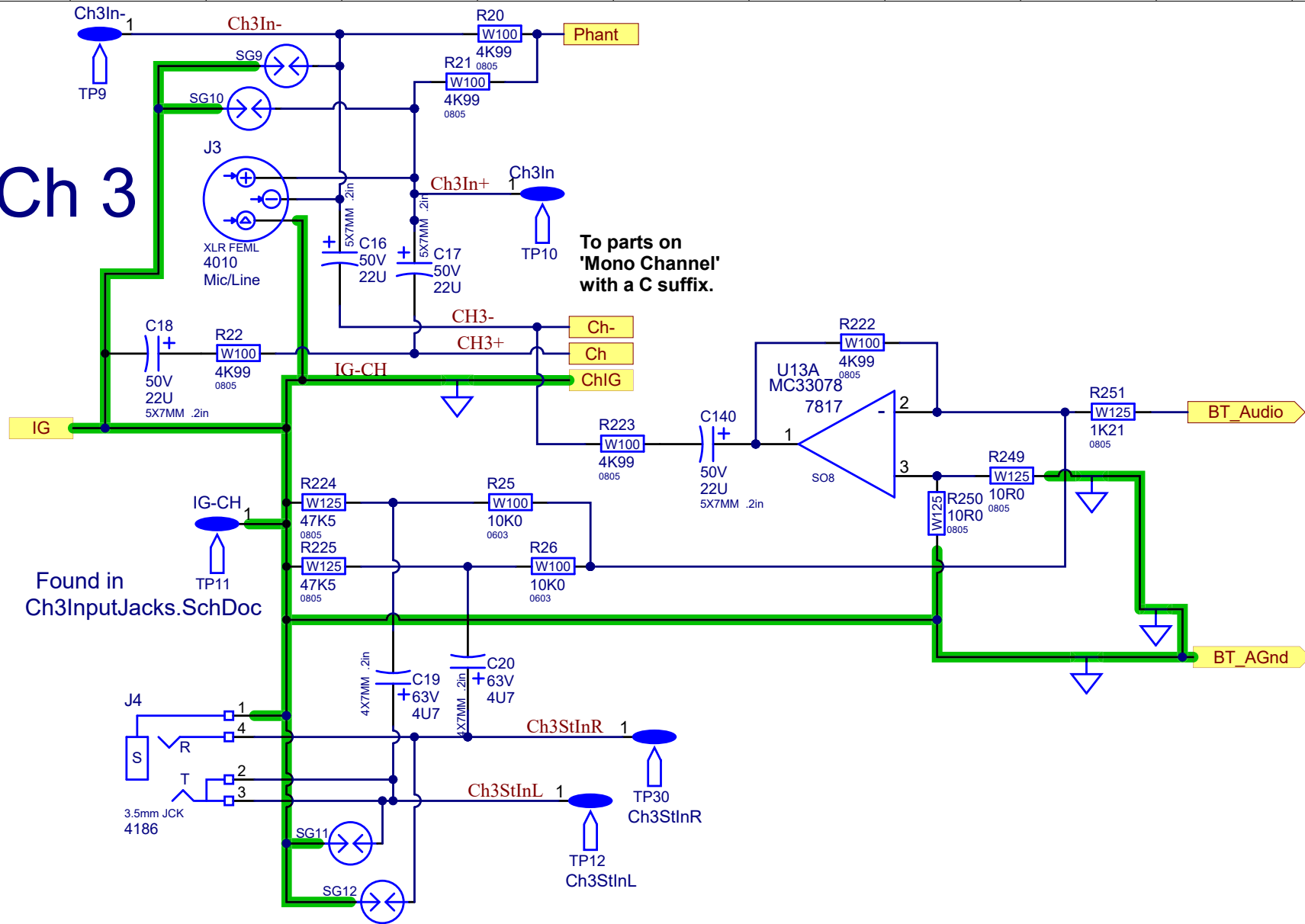


Section: Power Supply	
Product(s): EXM70	
PCB#: M1614	Rev#: V01
Modified: 11/7/2017	EML Rev#: 01
File: PowerSupply.SchDoc	Sheet 1 Of 19
	Tmp Rev: V031



Section: Master	
Product(s): EXM70	
PCB#: M1614	Rev#: V01
Modified: 11/7/2017	File: Master.SchDoc
EML Rev#: 01	Sheet 1 Of 19
Tmp Rev: V031	

Ch 3



Section: Ch3 Input Jacks

Product(s): EXM70

PCB#: M1614

Rev#: V01

EML Rev#: 01

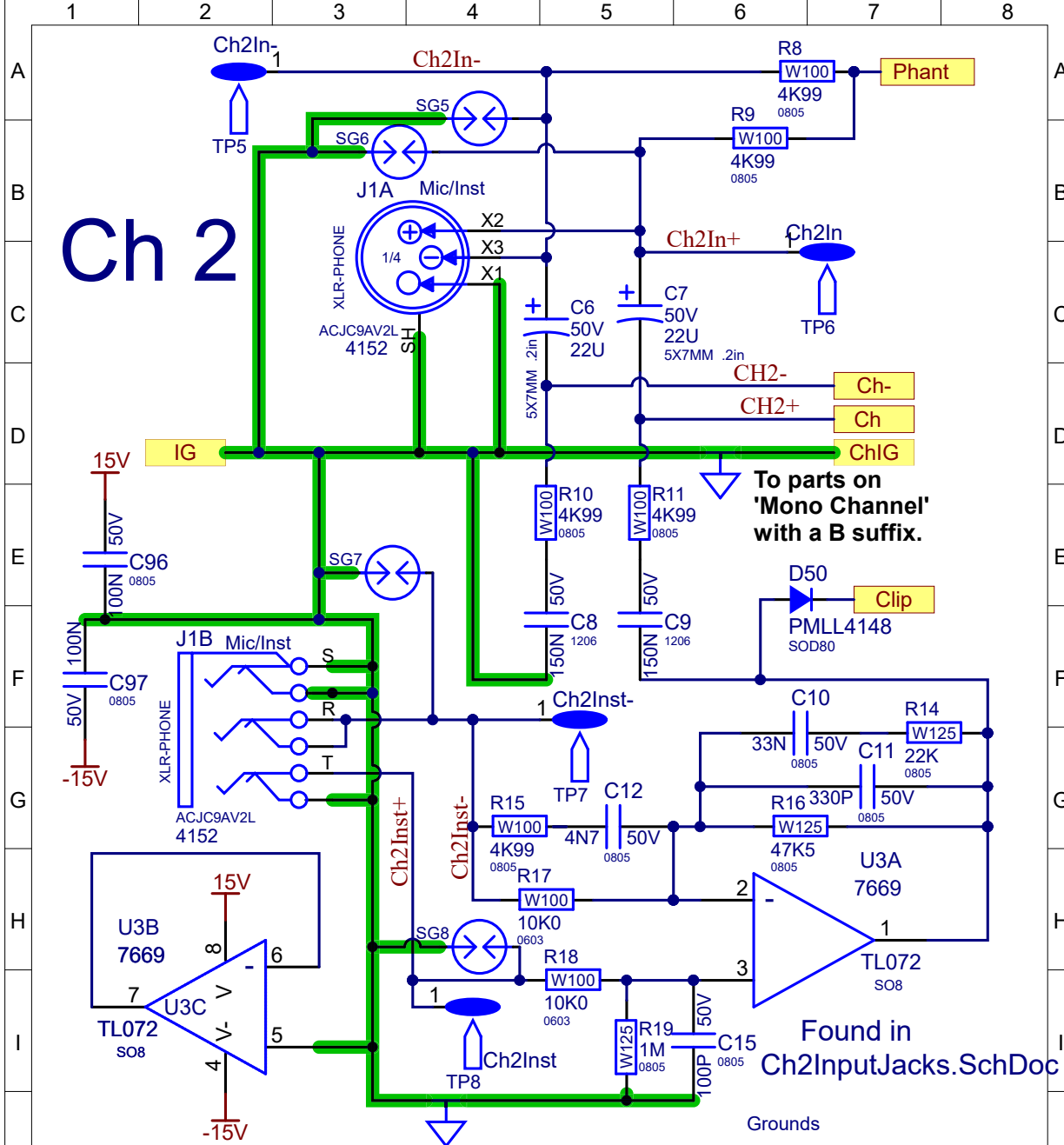
Sheet 1 Of 19

Modified: 11/7/2017

File: Ch3InputJacks.SchDoc

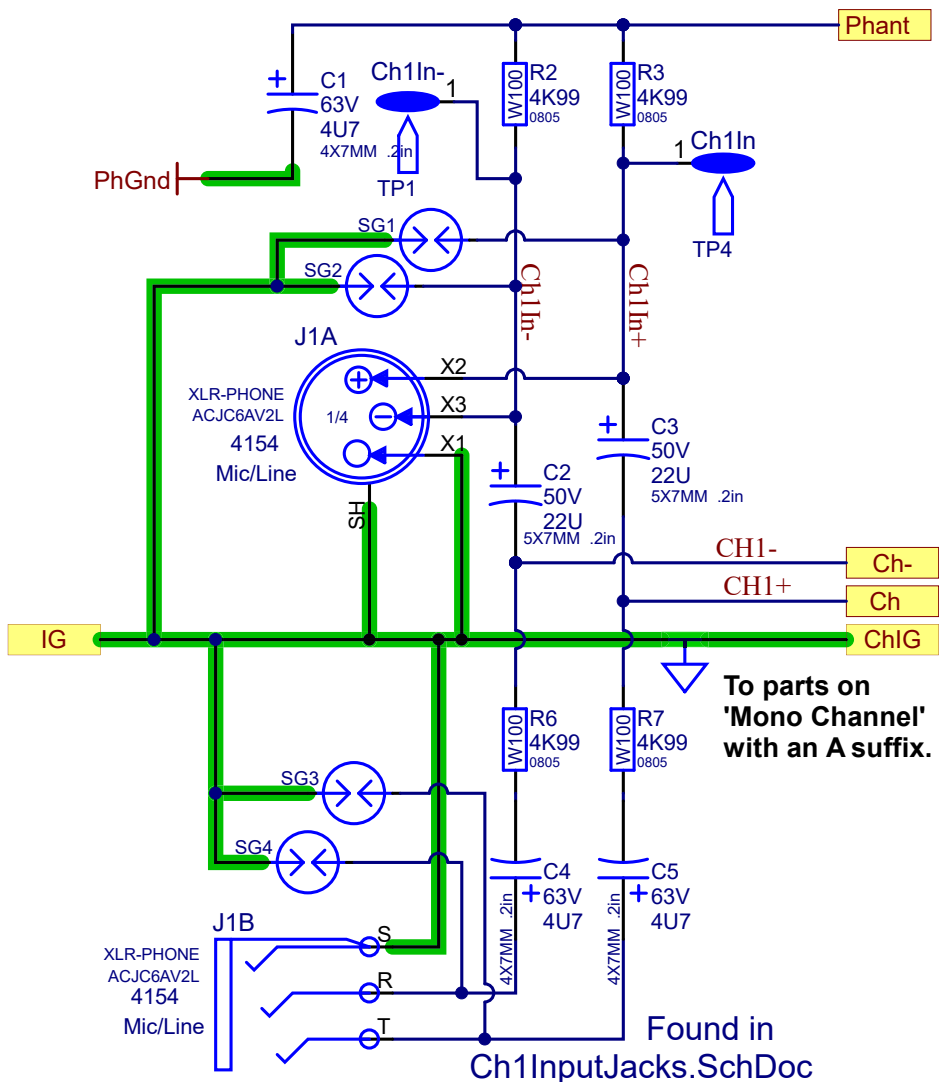
Tmp Rev: V031

Ch 2




Section: Ch2 Input Jacks			
Product(s): EXM70			
PCB#: M1614	Rev#: V01	EML Rev#: 01	Sheet 1 Of 19
Modified: 11/7/2017	File: Ch2InputJacks.SchDoc	Tmp Rev: V031	


Ch 1





Section: Ch1 Input Jacks				
Product(s): EXM70				
PCB#: M1614	Rev#: V01	EML Rev#: 01	Sheet 1 Of 19	
Modified: 11/7/2017	File: Ch1InputJacks.SchDoc		Tmp Rev: V031	


PANEL PARTS


Corners

 CNR1 CNR2 CNR3 CNR4


Panel Fiducials

 PF1 PF2 PF3 PF4

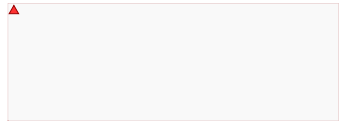
Tooling Holes

 TLH1 TLH2 TLH3 TLH4

Clinch Origin

 CRG1


Insert Origin

 INS1

Heat Sink Pad

 HW1
 4144

Heat Sink Screws X2

 8761



See PcbDoc for default clearance rules.
 Note: You must define your own rules for -HI and +HI.

	Section: ECAD Incidentals			
	Product(s): EXM70			
	PCB#: M1614	Rev#: V01	EML Rev#: 01	Sheet 1 Of 19
	Modified: 11/7/2017	File: ECO.SchDoc	Tmp Rev: V031	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

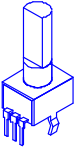
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	20-JUL-2017	V01		RELEASED FOR PRODUCTION
2
3
4
5
6
7
8
9
10
11
12
13

#	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/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P1A	LEVEL	4483	P32	.
P1B	LEVEL	4483	P32	.
P1C	LEVEL	4483	P32	.
P2A	Shape	4472	P32	.
P2B	Shape	4472	P32	.
P2C	Shape	4472	P32	.
P3A	FX Send	4472	P32	.
P3B	FX Send	4472	P32	.
P3C	FX Send	4472	P32	.
P4	Master	4433	P32	.
S1	FX Select	4189	.	.
.
.



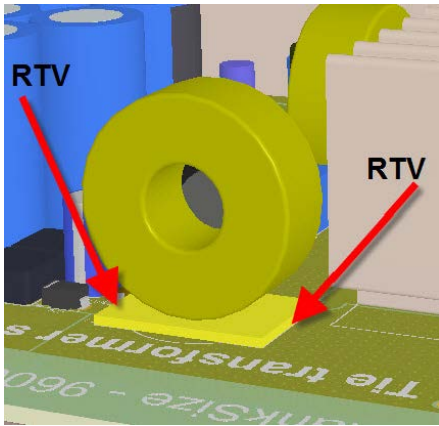
"STYLE_P32"

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

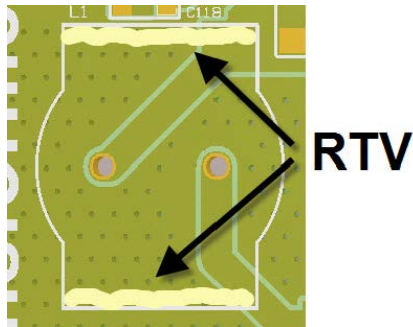
	Section: Design Information And History			
	Product(s): EXM70			
	PCB#: M1614	Rev#: V01	EML Rev#: 01	Sheet 1 Of 19
	Modified: 11/7/2017	File: History.SchDoc	Tmp Rev: V031	

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

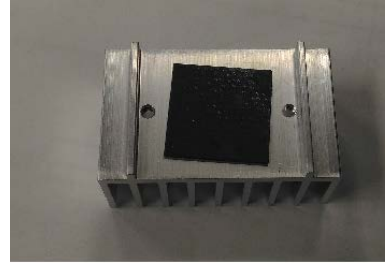


Put RTV under the base of L1 and L2 at the edges of the silkscreen outline.



Do not bend the leads of S1.

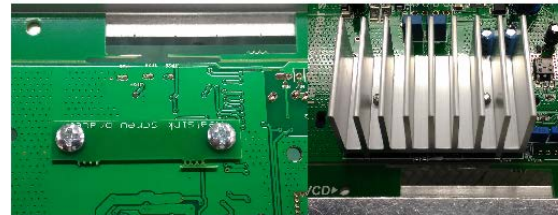
Heatsink Assembly (PCB Finishing)



Place 4144 pad on the Heatsink.



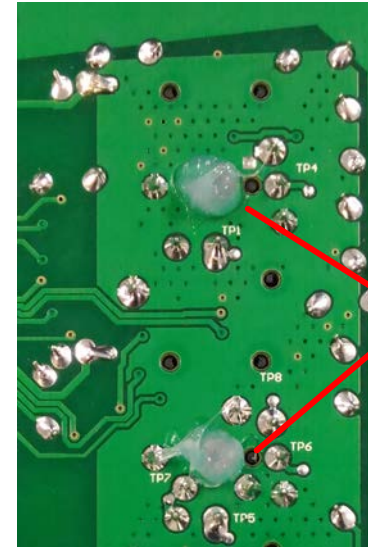
Dip each screw in Loctite. Cover 2 threads.



Mount 6671 using the 2 screws with the Heatsink Screw Brace between the screws and the PCB. Tighten to 4 in/lbs.



Break out the Heatsink Screw Brace



RTV THE CENTER HOLE OF THE COMBI JACKS DO NOT GO THROUGH HOLES

PCB HARDWARE

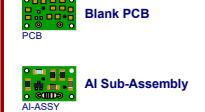
SCREWS AND BOLTS

NUTS

STANDOFFS

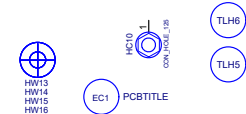


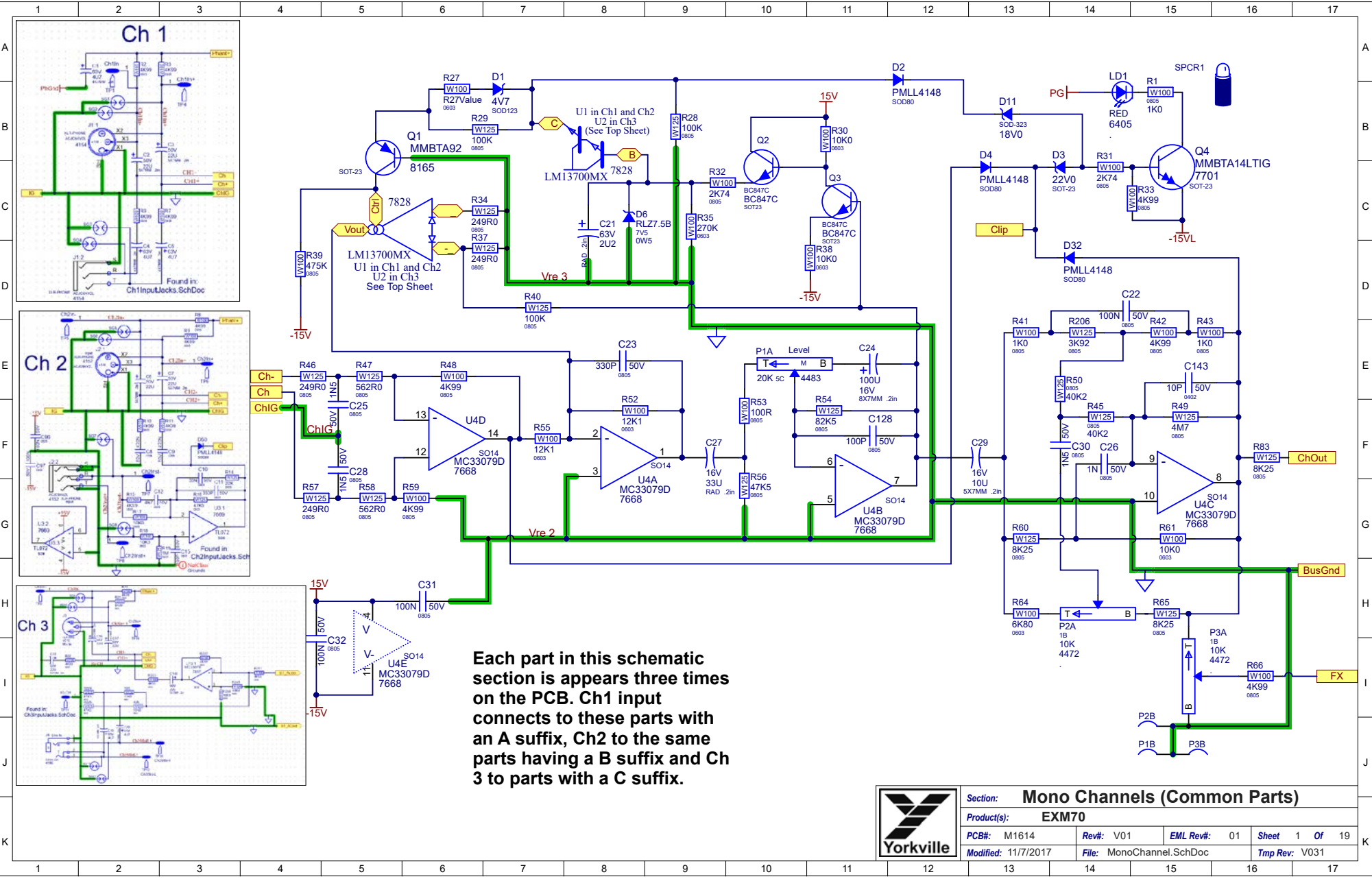
DOCUMENTATION




These resistors are placed next to connectors to help prevent reversed insertions.

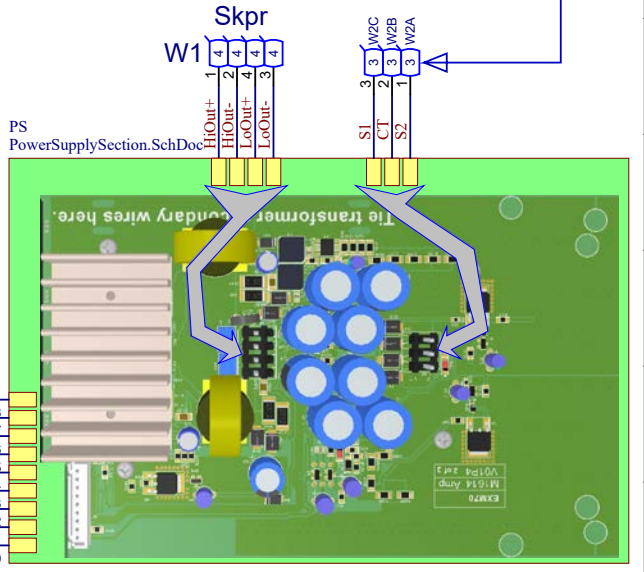
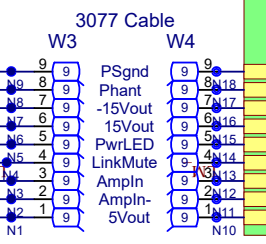
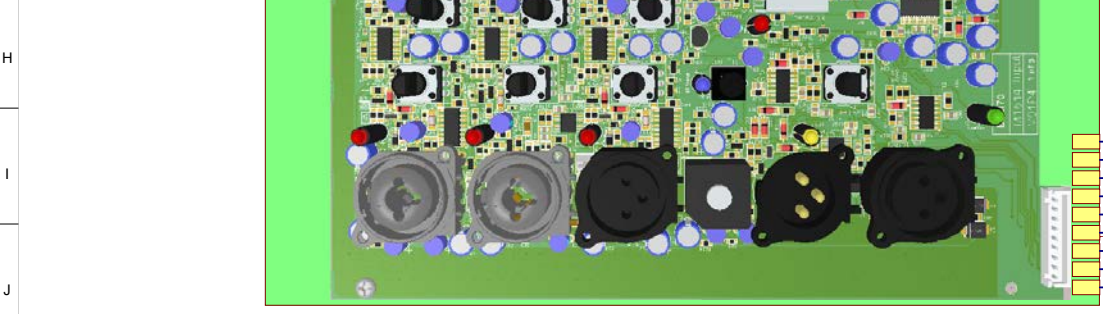
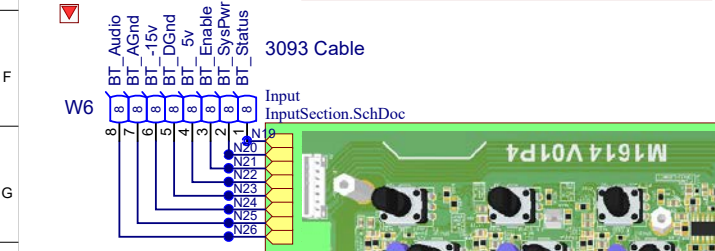
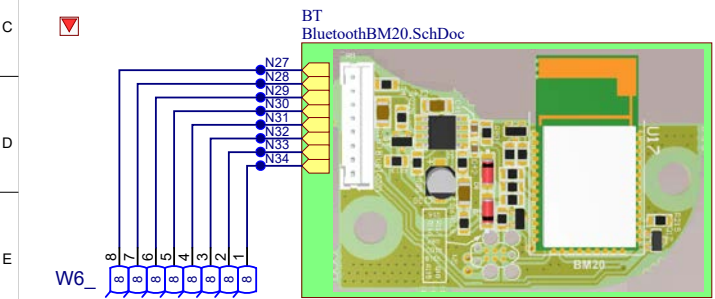
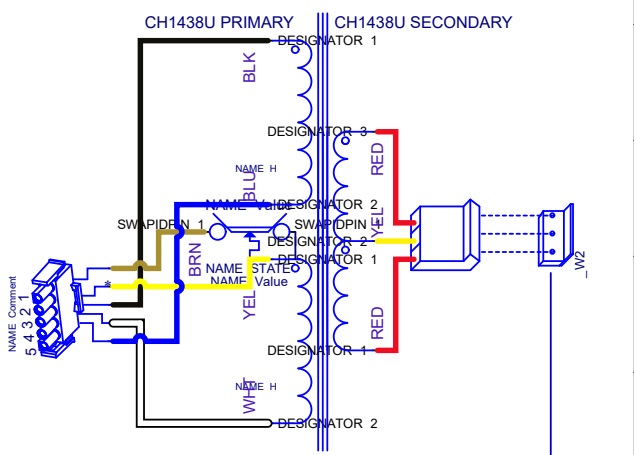
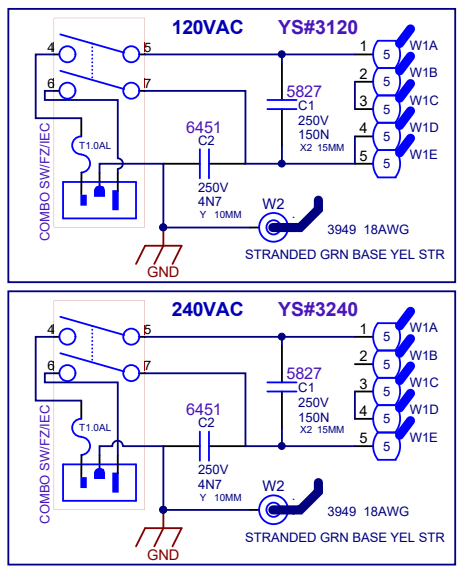
R183 47K0 10K0	R186 10K0 10K0	R188 10K0 10K0	R212 10K0 10K0
R252 10K0 10K0	R253 10K0 10K0	R254 10K0 10K0	R255 10K0 10K0





Each part in this schematic section is appears three times on the PCB. Ch1 input connects to these parts with an A suffix, Ch2 to the same parts having a B suffix and Ch 3 to parts with a C suffix.

	Section: Mono Channels (Common Parts)			
	Product(s): EXM70			
	PCB#: M1614	Rev#: V01	EML Rev#: 01	Sheet 1 Of 19
	Modified: 11/7/2017	File: MonoChannel.SchDoc	Tmp Rev: V031	



ECAD INCIDENTAL ECO.SchDoc
 History.SchDoc DESIGN HISTORY
 Assembly.SchDoc ASSEMBLY NOTES

Yorkville Sound Ltd.
 550 Granite Court
 Pickering, ON
 Canada L1W 3Y8
 www.yorkville.com

Product(s): EXM70	
Description: Powered Speaker	
PCB#: M1614	Rev#: V01
Modified: 11/7/2017	File: Top Sheet.SchDoc
EML Rev#: 01	Sheet 1 Of 19
Tmp Rev: V031	

-----Wave Solder----->

Score

PF4

EXM70

BlankSize - 243.84 x 222.89 mm

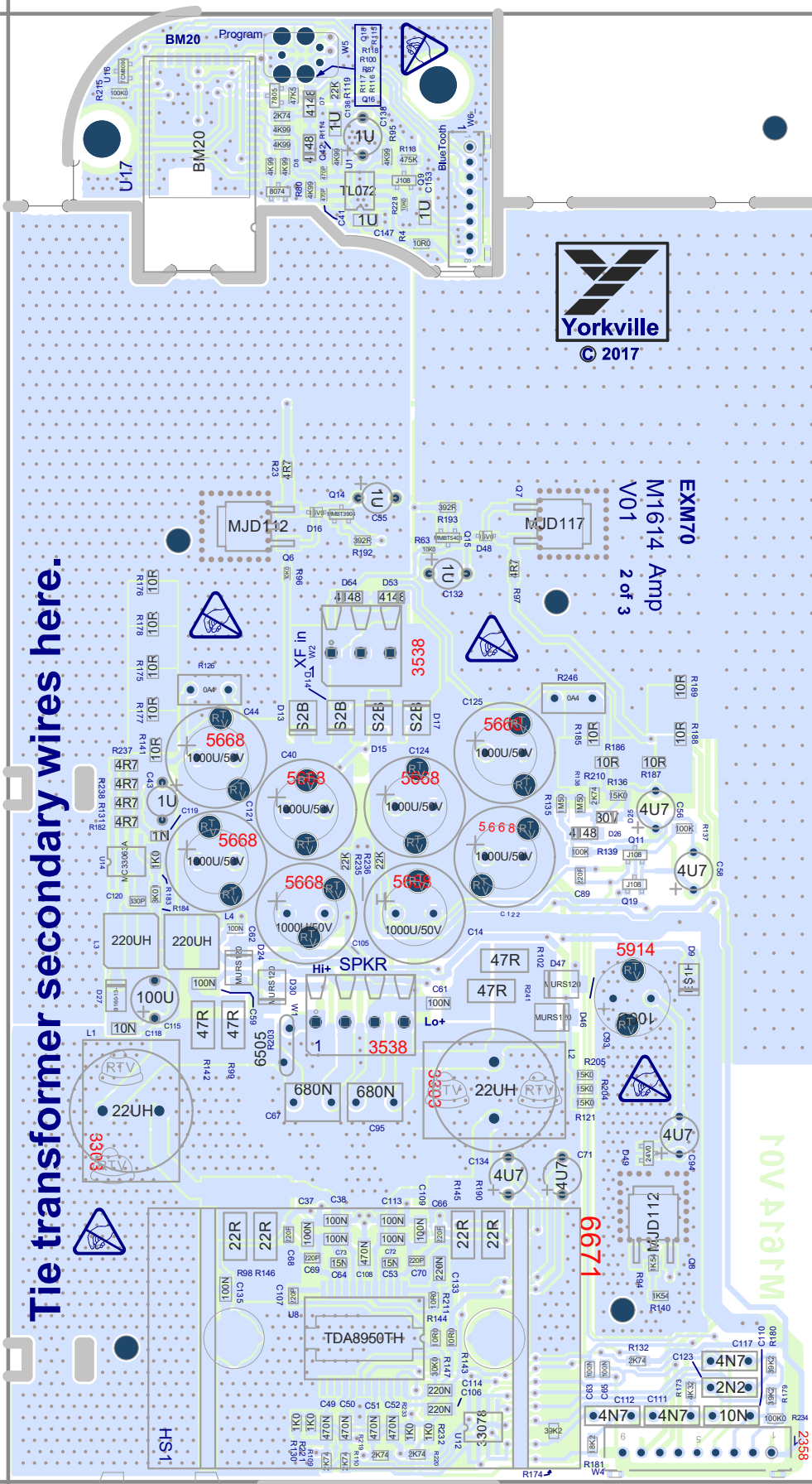
PF1

Score

CLINCH ORIGIN

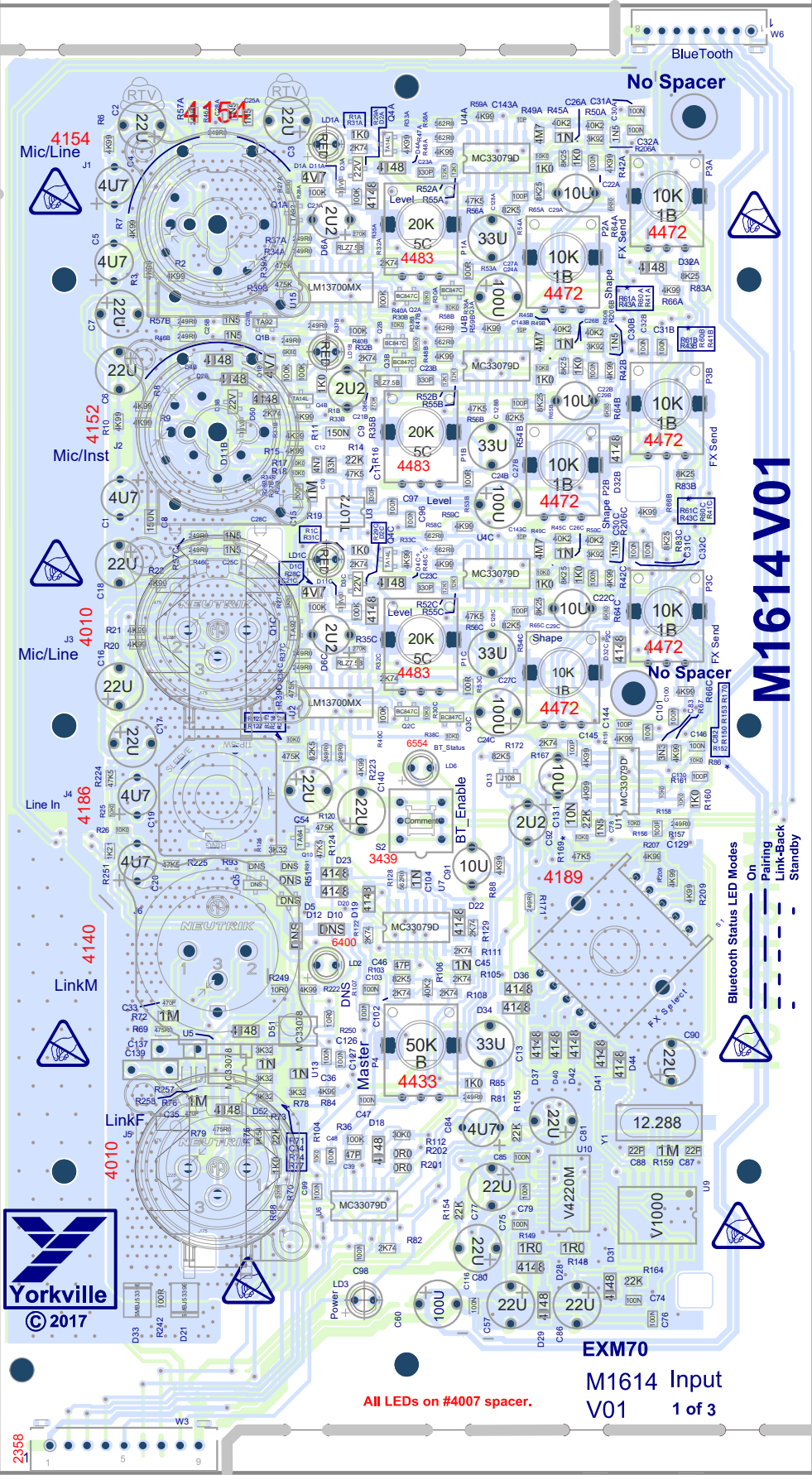
CORNER

Tie transformer secondary wires here.



Heatsink screw brace.

Score



Score

Score

PF4

EXM70

BlankSize - 243.84 x 222.89 mm

PF1

Score

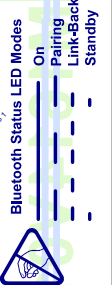
CLINCH ORIGIN

CORNER

M1614 V01

All LEDs on #4007 spacer.

EXM70 M1614 Input V01 1 of 3



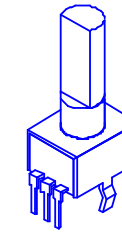
DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	20-JUL-2017	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/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P1A	LEVEL	4483	P32	.
P1B	LEVEL	4483	P32	.
P1C	LEVEL	4483	P32	.
P2A	Shape	4472	P32	.
P2B	Shape	4472	P32	.
P2C	Shape	4472	P32	.
P3A	FX Send	4472	P32	.
P3B	FX Send	4472	P32	.
P3C	FX Send	4472	P32	.
P4	Master	4433	P32	.
S1	FX Select	4189	.	.
.
.

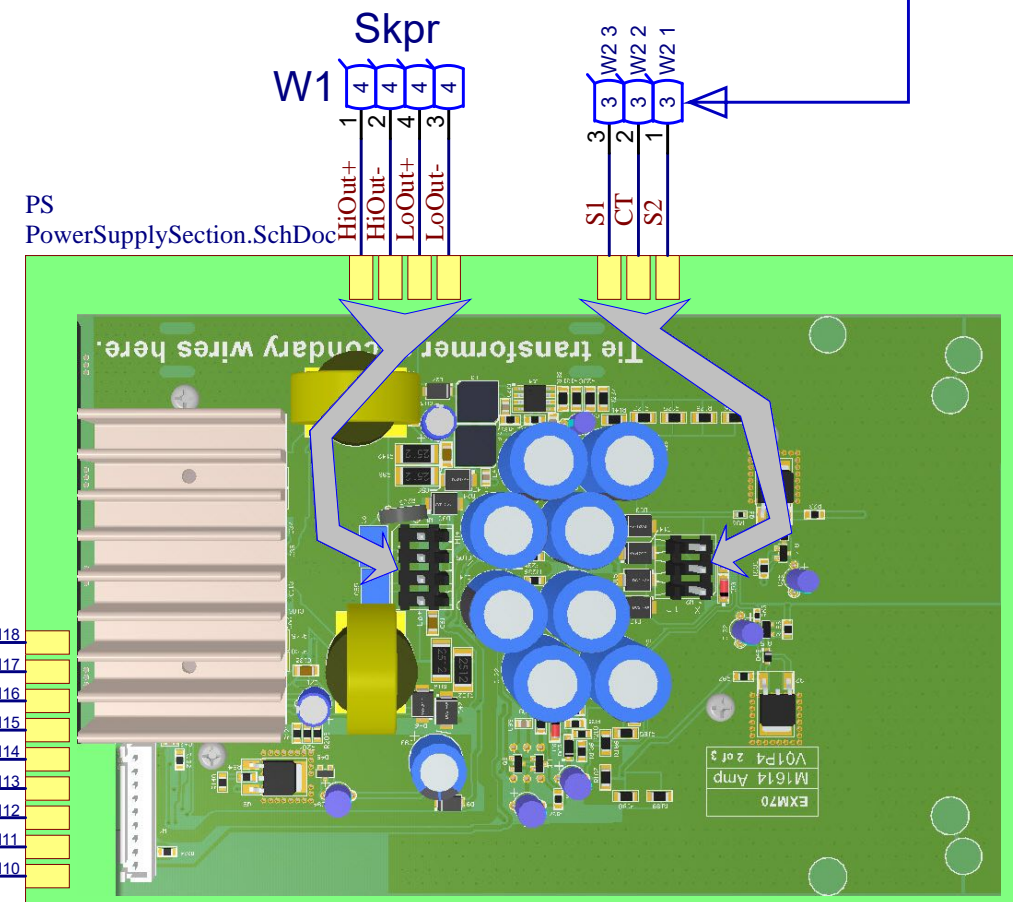
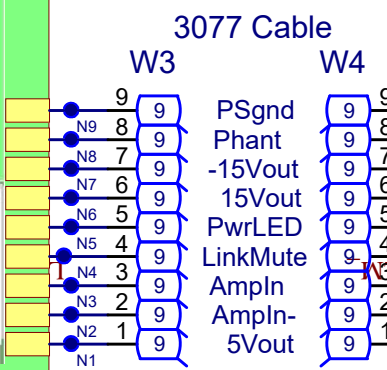
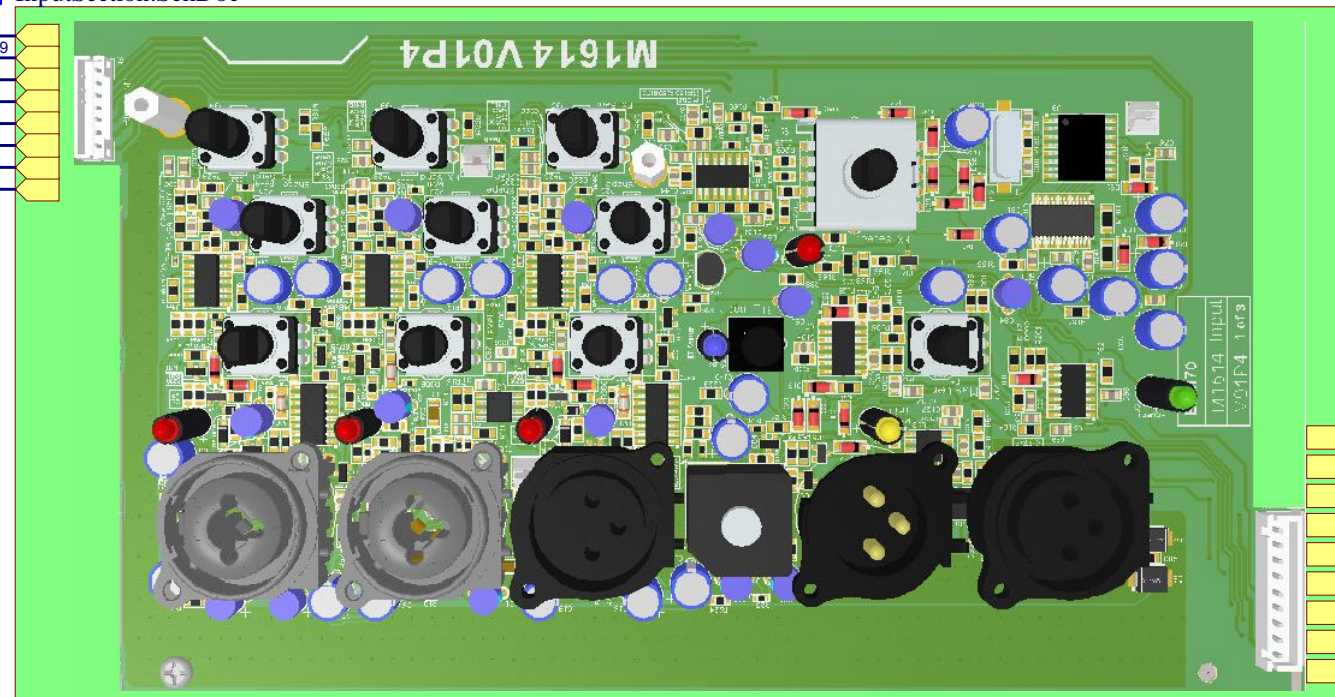
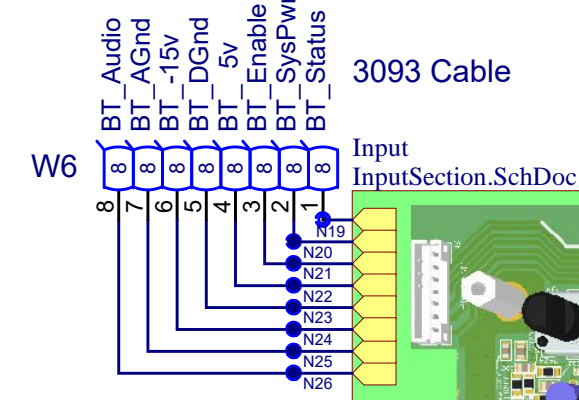
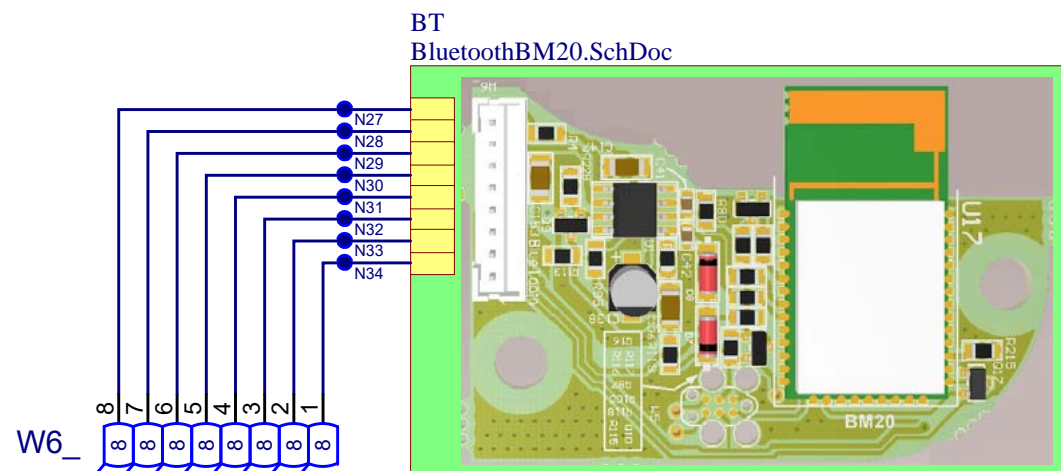
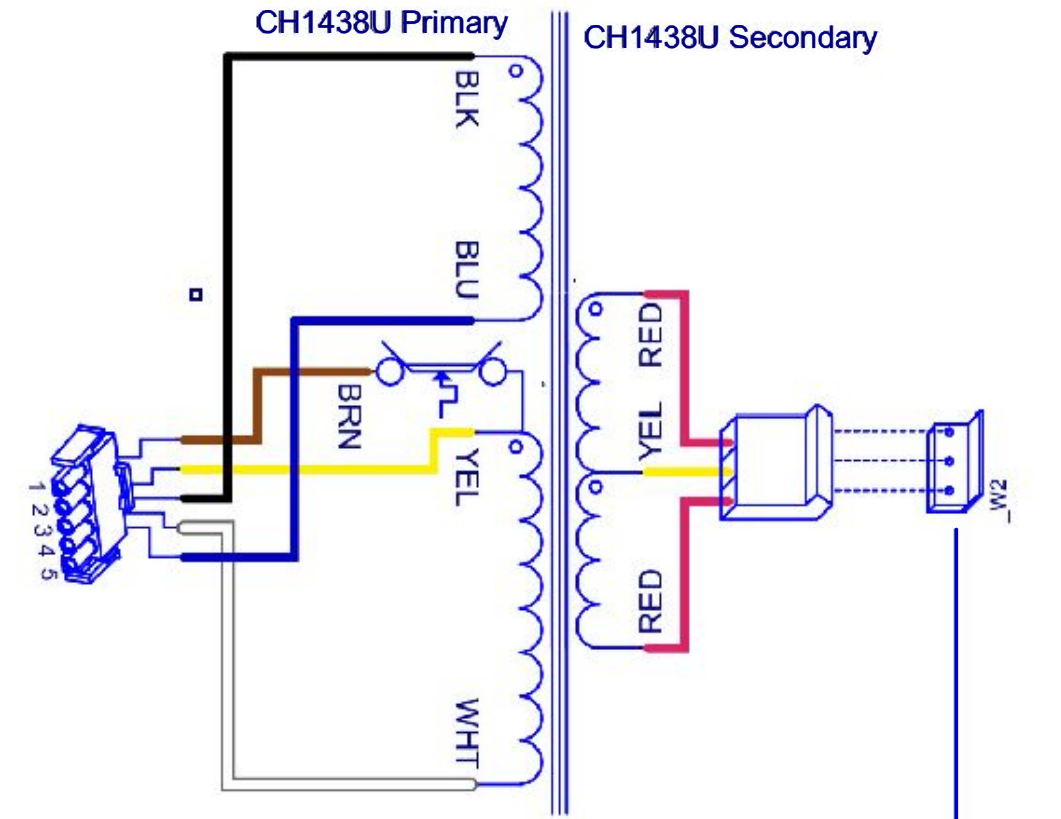
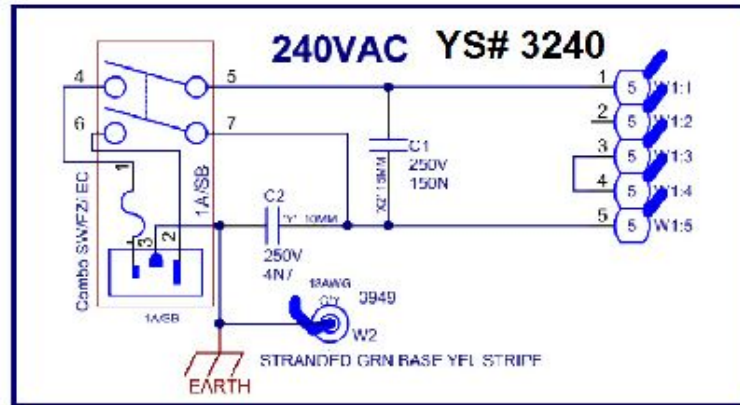
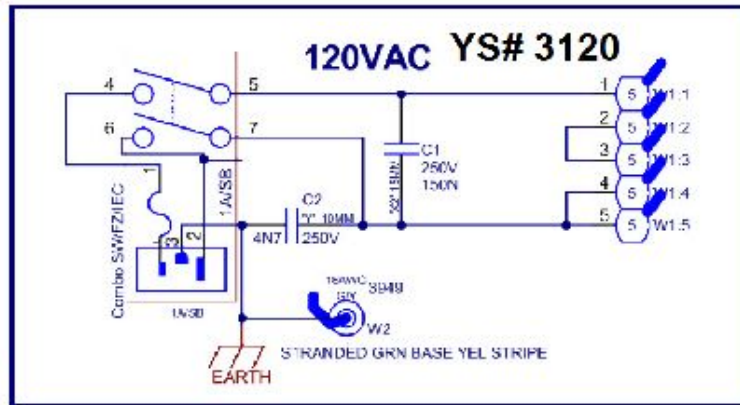


"STYLE_P32"

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

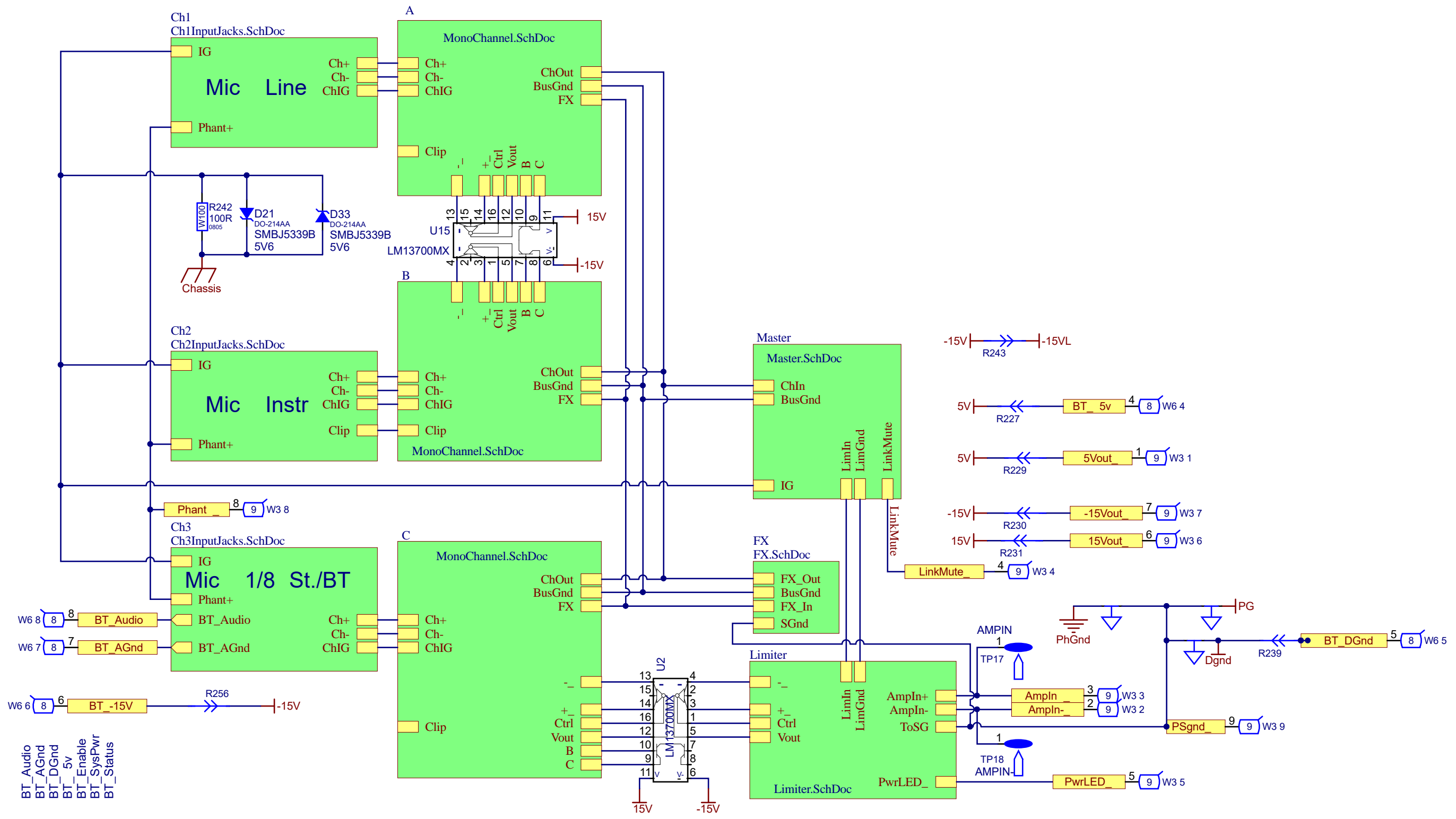


Section: Design Information And History			
Product(s): EXM70			
PCB#: M1614	Rev#: V01	EML Rev#: 01	Sheet 1 Of 19
Modified: 2017-07-31	File: History.SchDoc	Tmp Rev: V031	

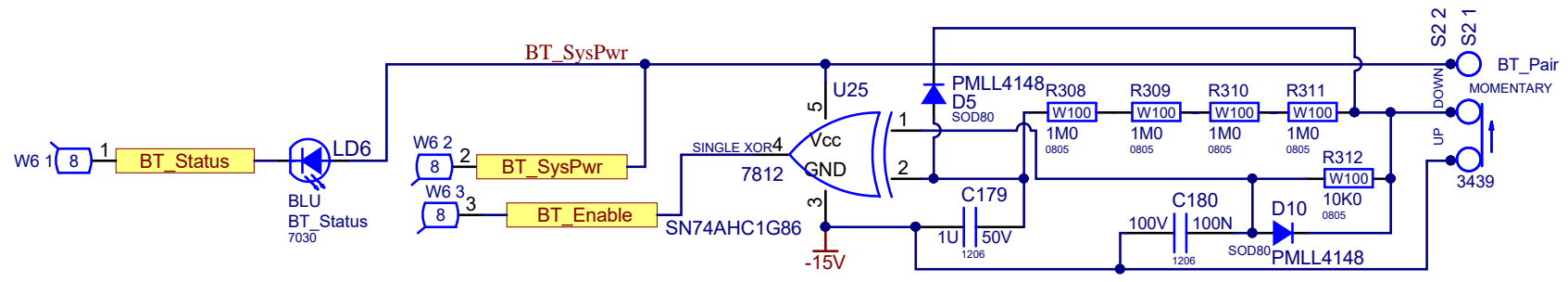


Yorkville Sound Ltd.
 550 Granite Court
 Pickering, ON
 Canada L1W 3Y8
 www.yorkville.com

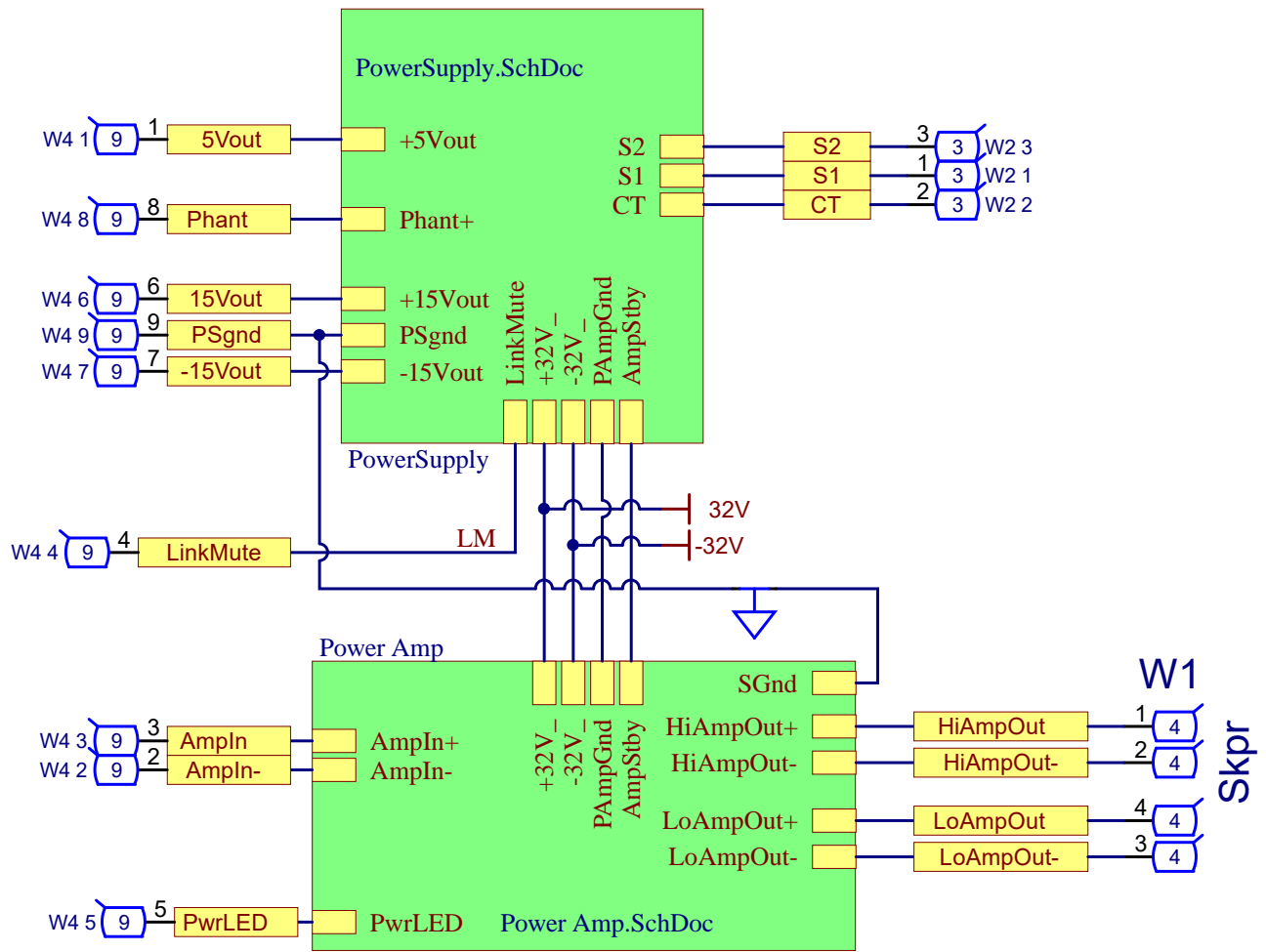
Product(s): EXM70		Description: Powered Speaker	
PCB#: M1616	Rev#: V02	EML Rev#: 01	Sheet 1 Of 18
Modified: 2019-11-18	File: Top Sheet.SchDoc		Tmp Rev: V031



- BT_Audio
- BT_AGnd
- BT_DGnd
- BT_5v
- BT_Enable
- BT_SysPwr
- BT_Status



Section: In t Se tion			
Product(s): EXM70			
PCB#: M1616	Rev#: V02	EML Rev#: 01	Sheet 2 Of 18
Modified: 2019-11-18	File: InputSection.SchDoc	Tmp Rev: V031	



Section: **Power Supply / Amp**

Product(s): **EXM70**

PCB#: M1616

Rev#: V02

EML Rev#: 01

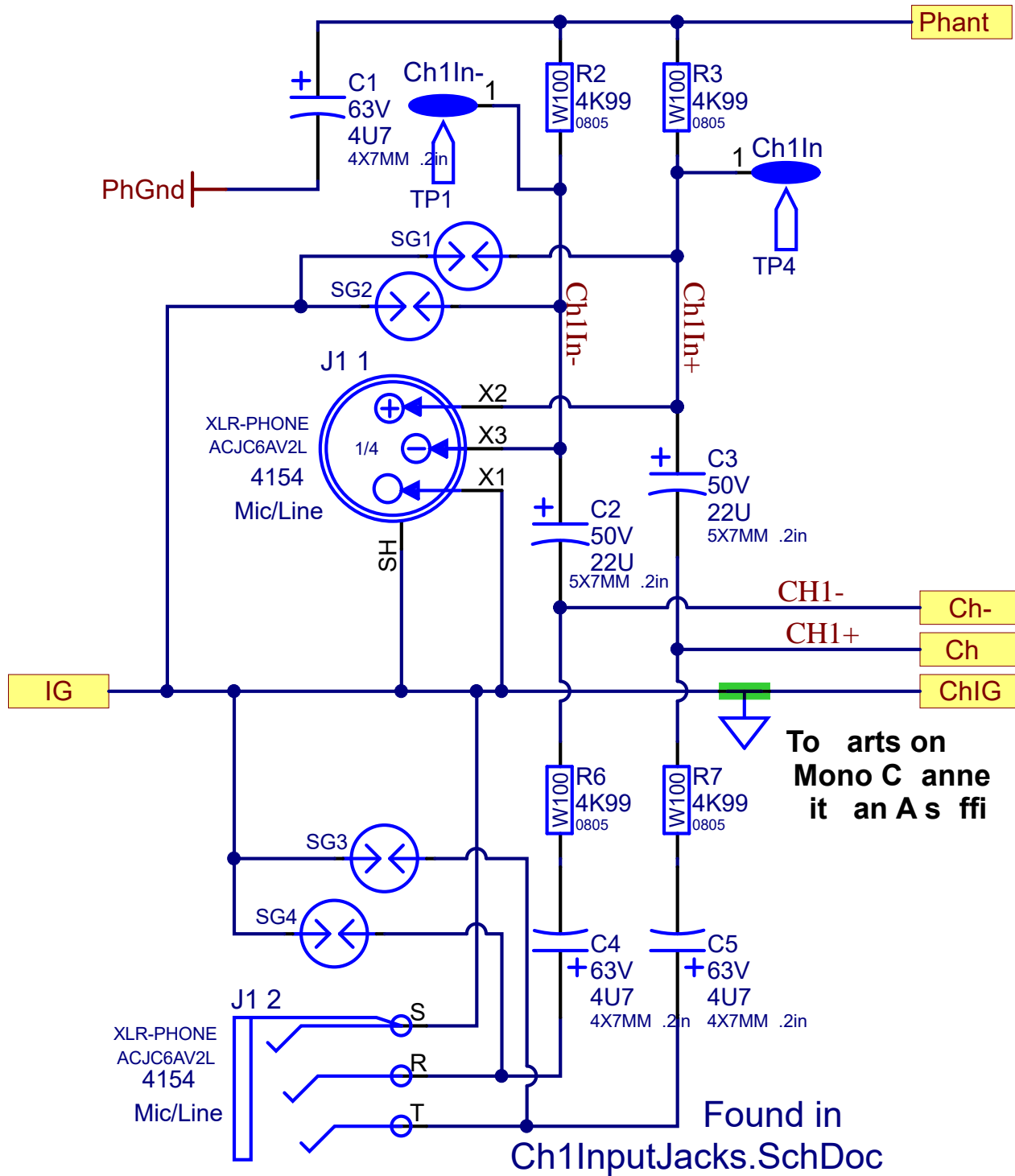
Sheet 10 Of 18

Modified: 2019-11-18

File: PowerSupplySection.SchDoc

Temp Rev: V031

Ch 1



Section: **C 1 I n t a s**

Product(s): **EXM70**

PCB#: M1616

Rev#: V02

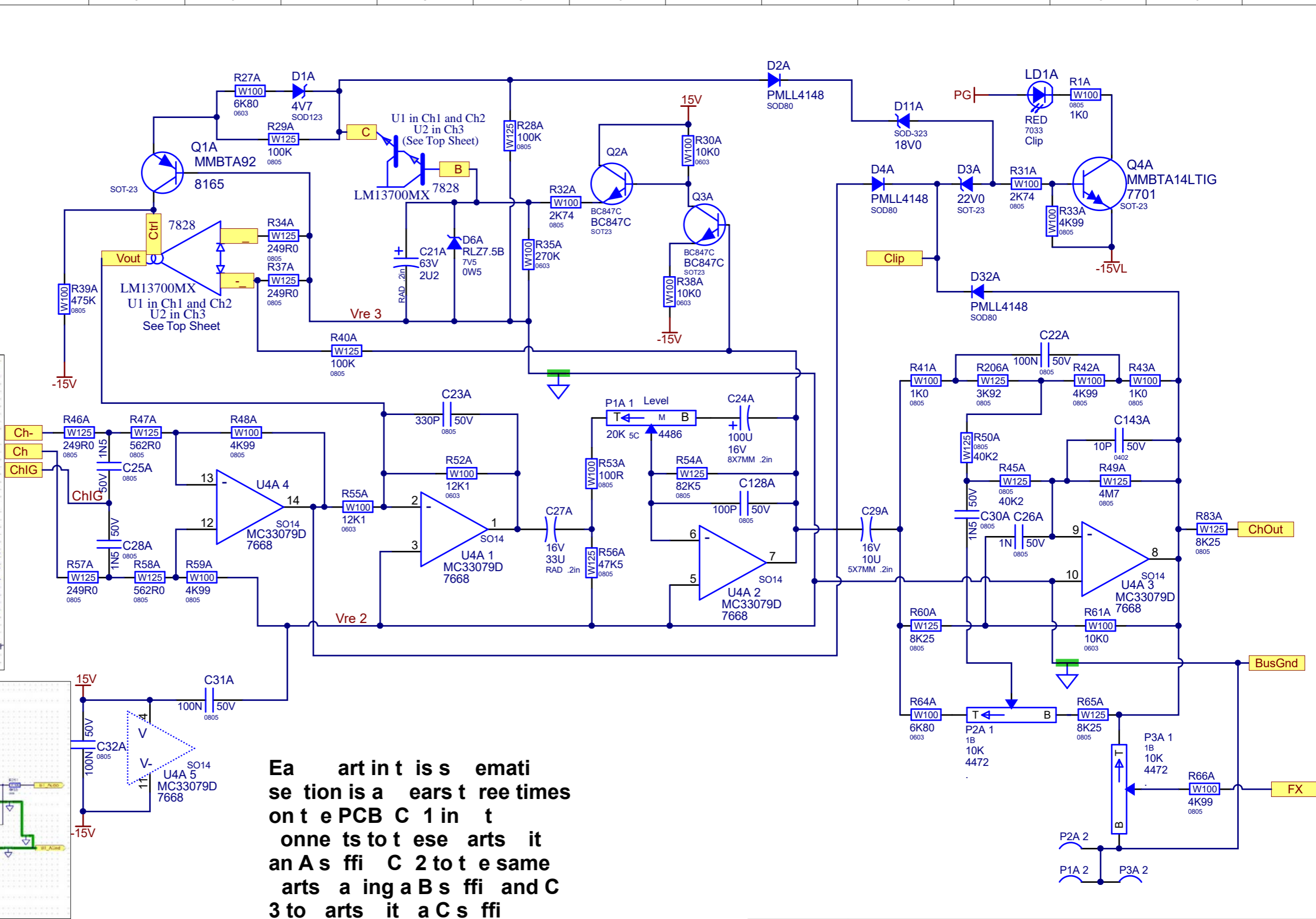
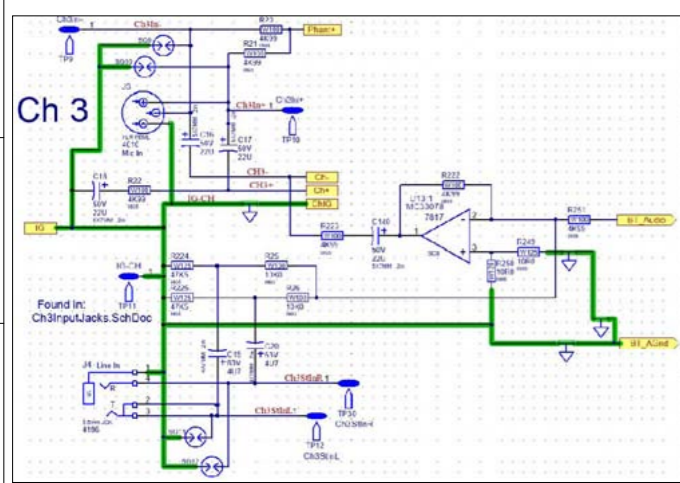
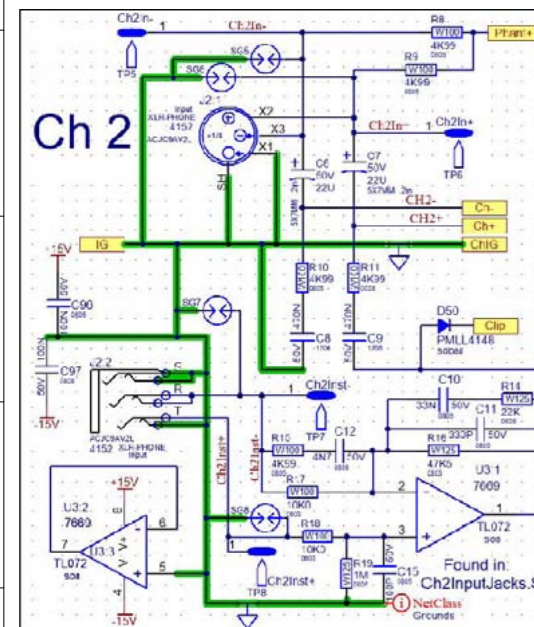
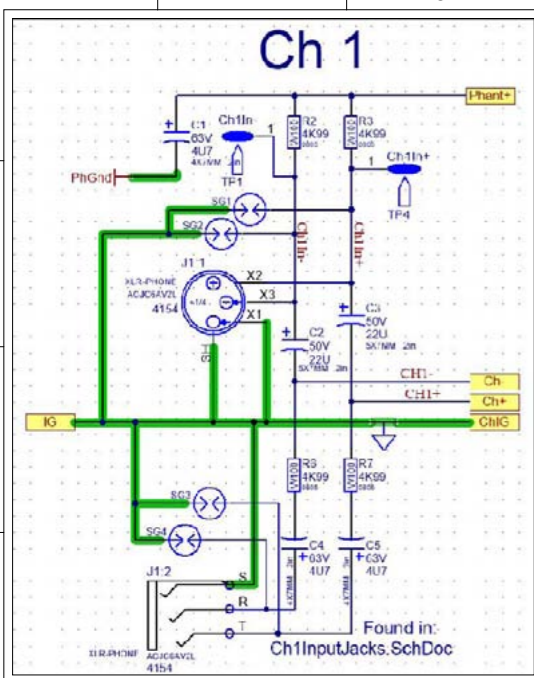
EML Rev#: 01

Sheet 3 Of 18

Modified: 2019-11-18

File: Ch1InputJacks.SchDoc

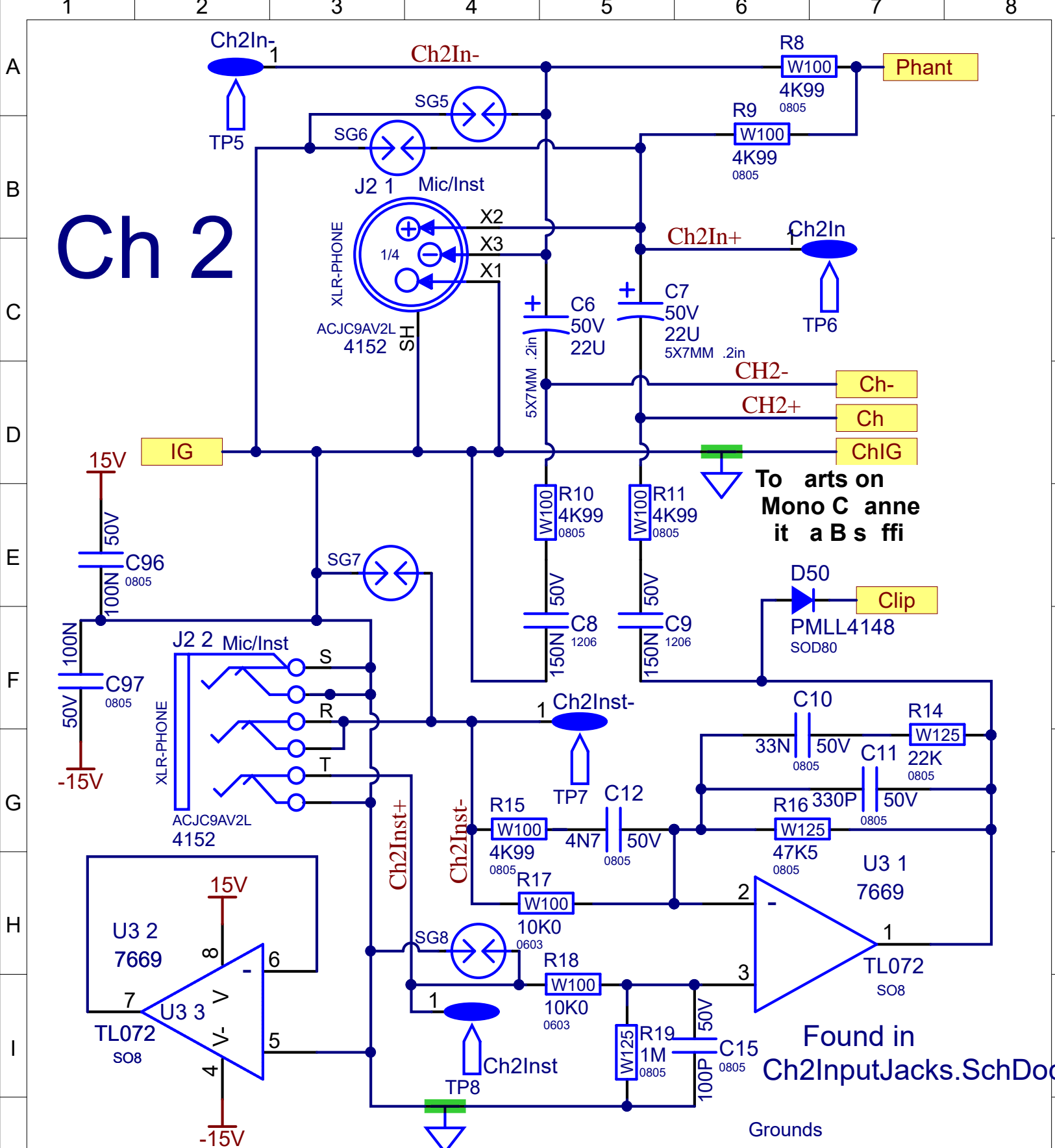
Tmp Rev: V031



Ea art in t is s emati
se tion is a ears t ree times
ont e PCB C 1 in t
onne ts to t ese arts it
an A s ffi C 2 to t e same
arts a ing a B s ffi and C
3 to arts it a C s ffi



Section: Mono C anne s Common Parts			
Product(s): EXM70			
PCB#: M1616	Rev#: V02	EML Rev#: 01	Sheet 4 Of 18
Modified: 2019-11-18	File: MonoChannel.SchDoc	Tmp Rev: V031	



Ch 2

To arts on
Mono C anne
it a Bs ffi

Found in
Ch2InputJacks.SchDoc

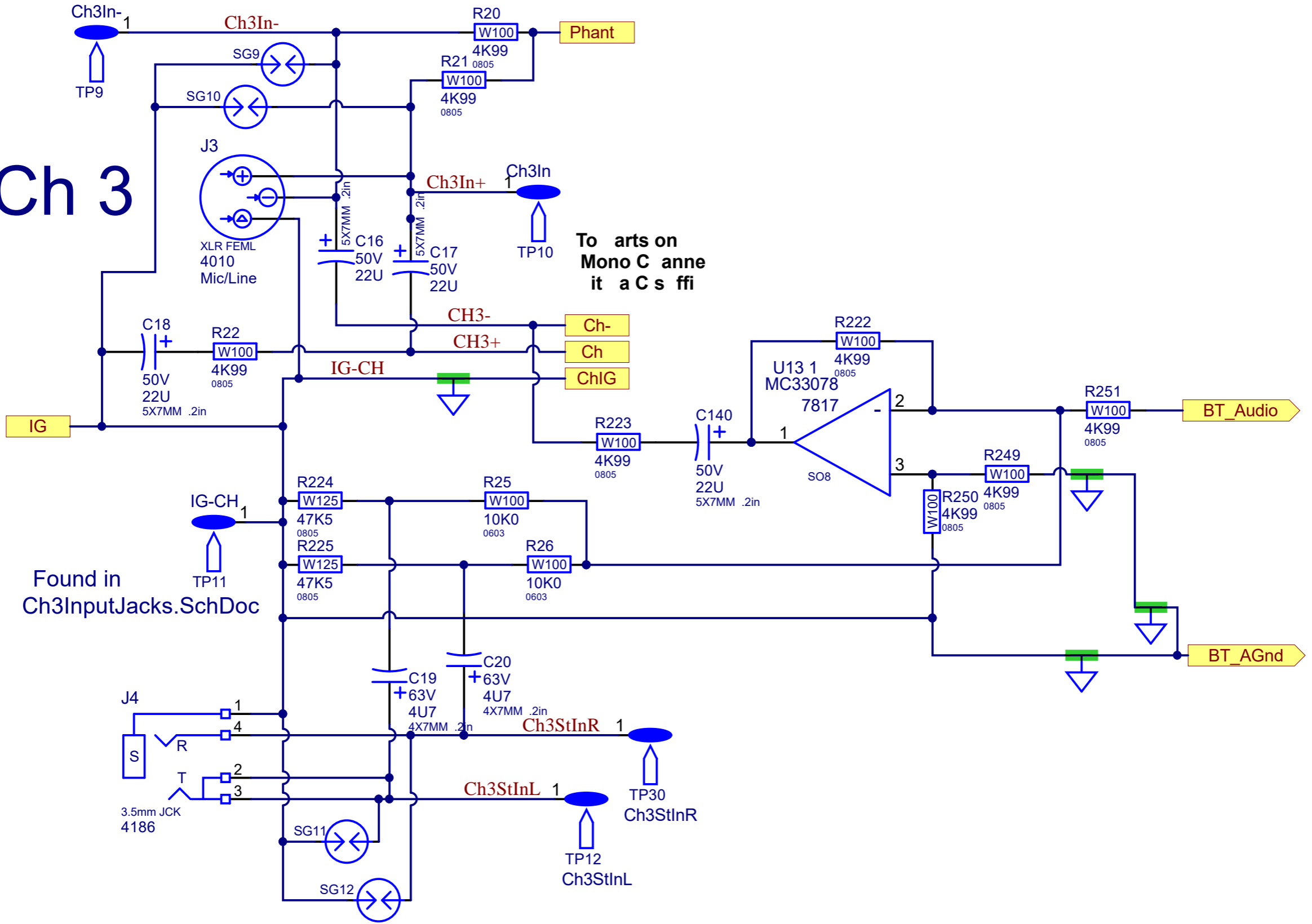


Section: C 2 In t a s	
Product(s): EXM70	
PCB#: M1616	Rev#: V02
Modified: 2019-11-18	File: Ch2InputJacks.SchDoc
EML Rev#: 01	Sheet 5 <i>Of</i> 18
Tmp Rev: V031	

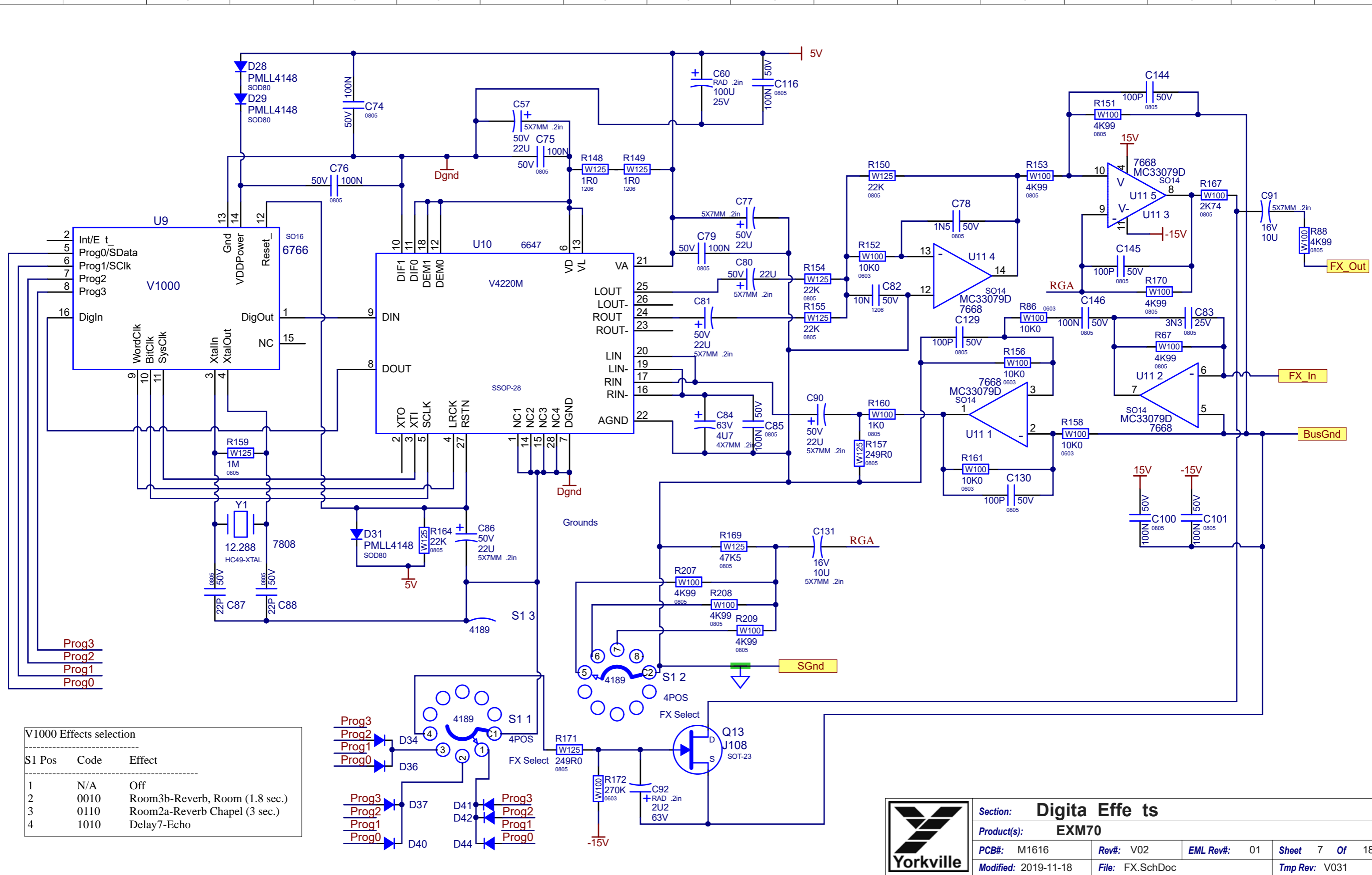
Ch 3

To arts on
Mono C anne
it a C s ffi

Found in
Ch3InputJacks.SchDoc



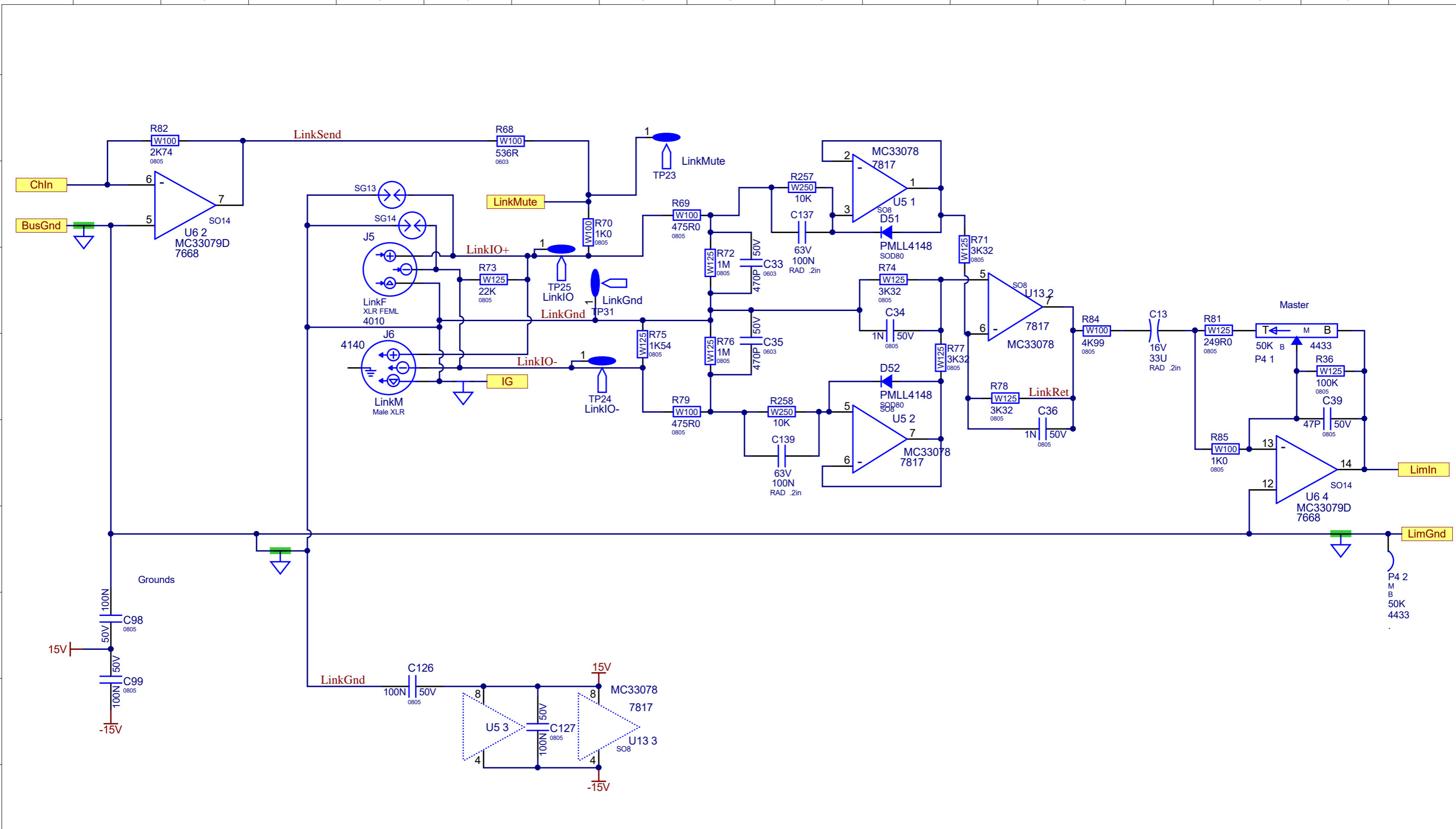
Section: C 3 I n t a s			
Product(s): EXM70			
PCB#: M1616	Rev#: V02	EML Rev#: 01	Sheet 6 Of 18
Modified: 2019-11-18		File: Ch3InputJacks.SchDoc	
Tmp Rev: V031			



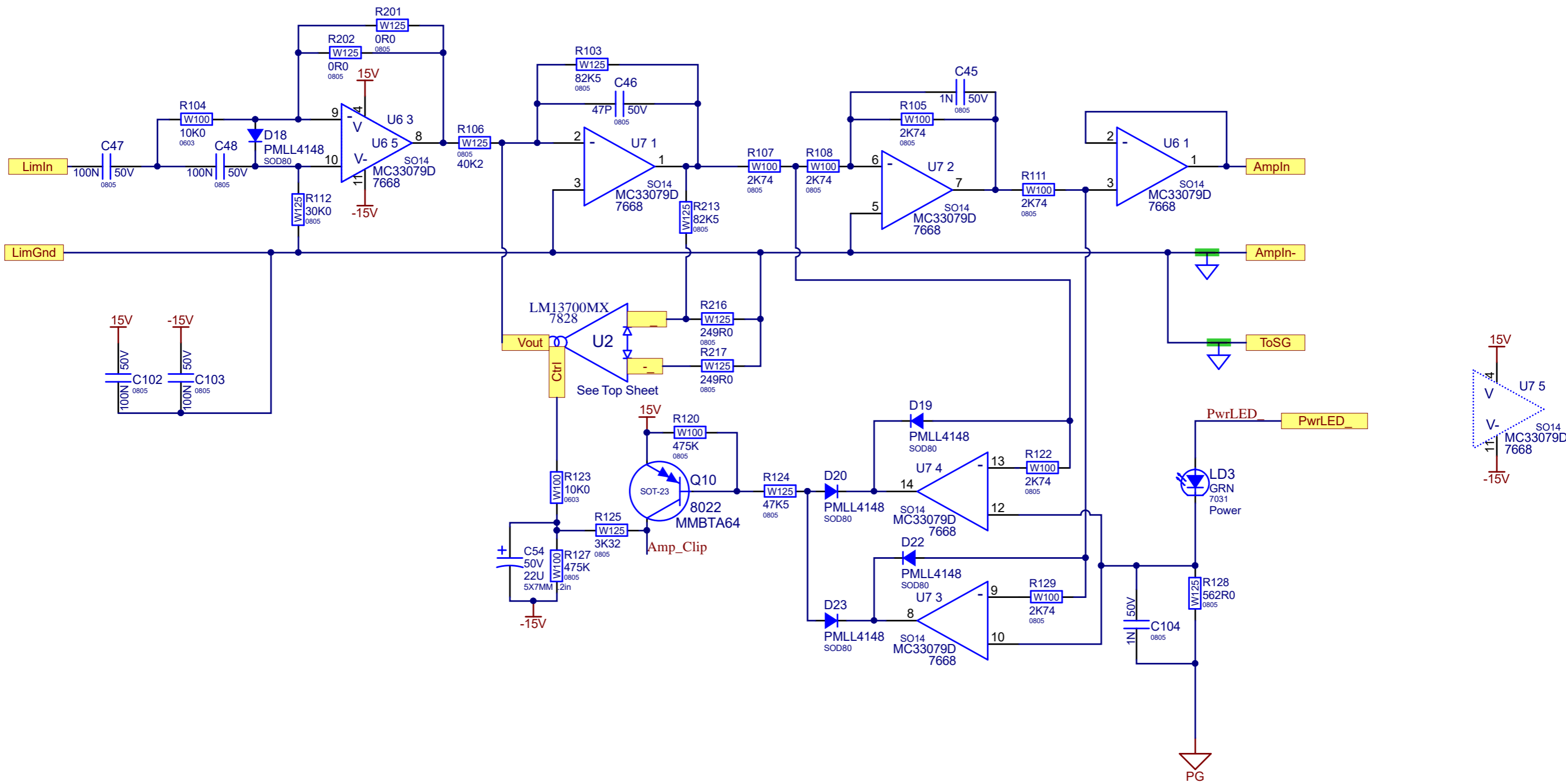
V1000 Effects selection

S1 Pos	Code	Effect
1	N/A	Off
2	0010	Room3b-Reverb, Room (1.8 sec.)
3	0110	Room2a-Reverb Chapel (3 sec.)
4	1010	Delay7-Echo

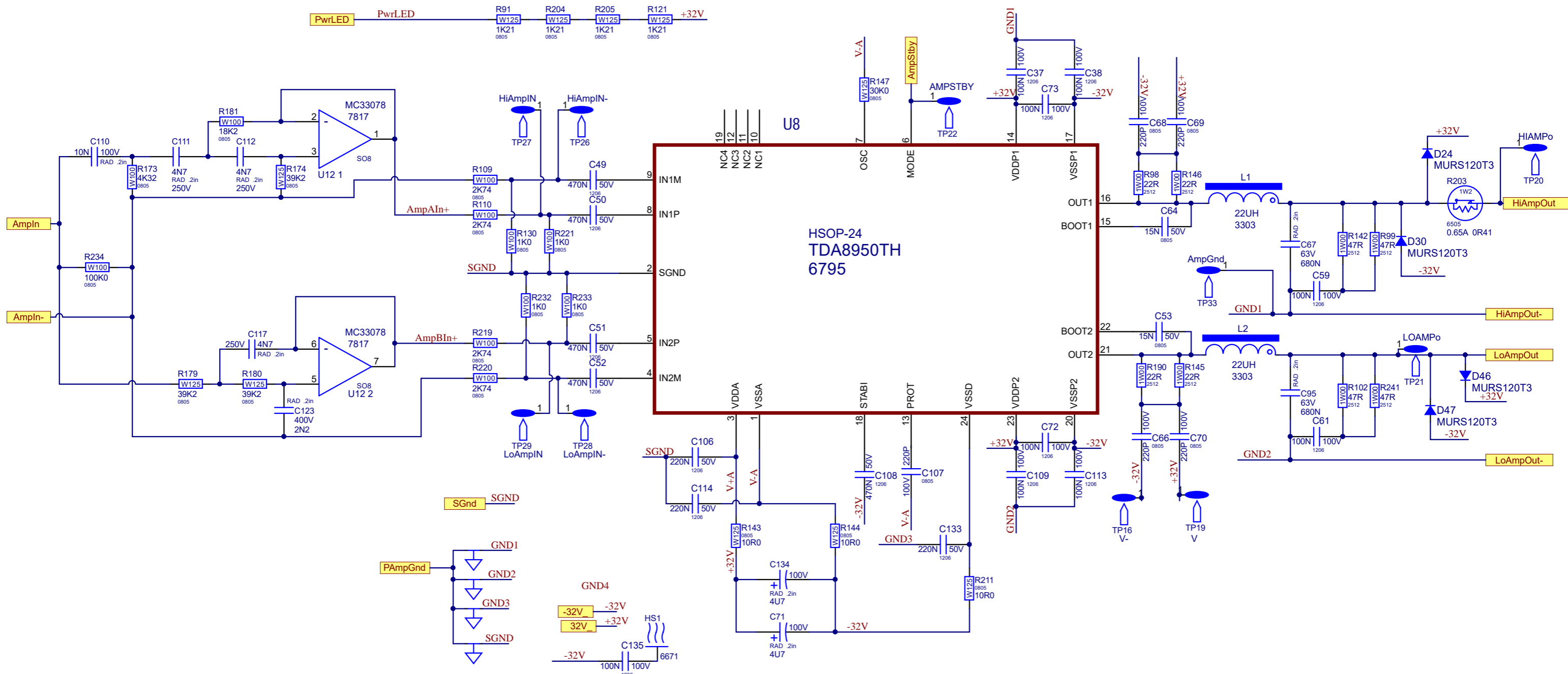




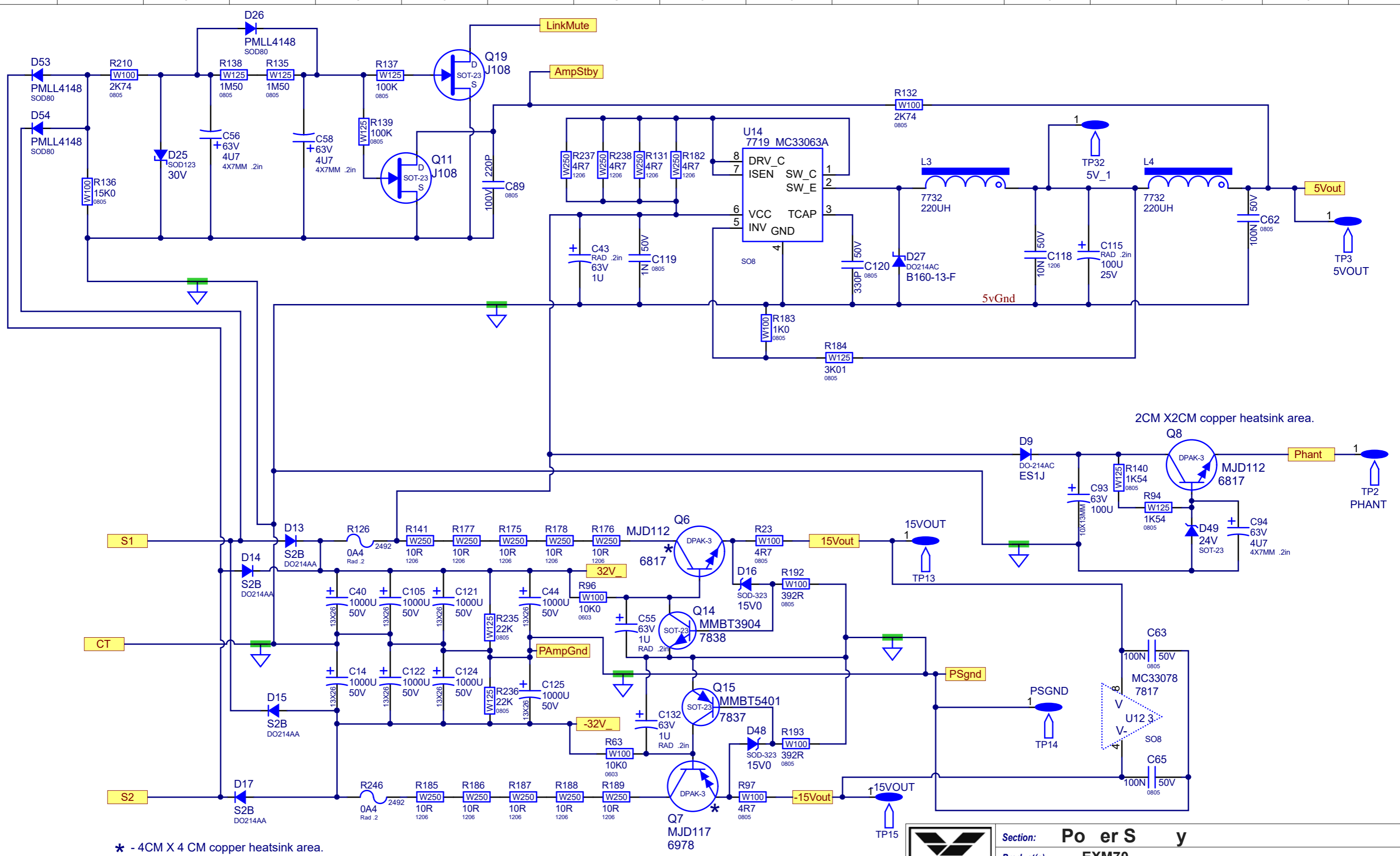
Section: Master	
Product(s): EXM70	
PCB#: M1616	Rev#: V02
EML Rev#: 01	Sheet 8 Of 18
Modified: 2019-11-18	File: Master.SchDoc
Tmp Rev: V031	



Section: Limiter			
Product(s): EXM70			
PCB#: M1616	Rev#: V02	EML Rev#: 01	Sheet 9 Of 18
Modified: 2019-11-18		File: Limiter.SchDoc	
Tmp Rev: V031			



Section: Po er Am			
Product(s): EXM70			
PCB#: M1616	Rev#: V02	EML Rev#: 01	Sheet 11 Of 18
Modified: 2019-11-18		File: Power Amp.SchDoc	
Tmp Rev: V031			



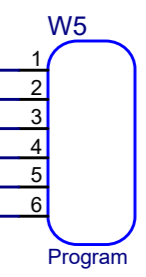
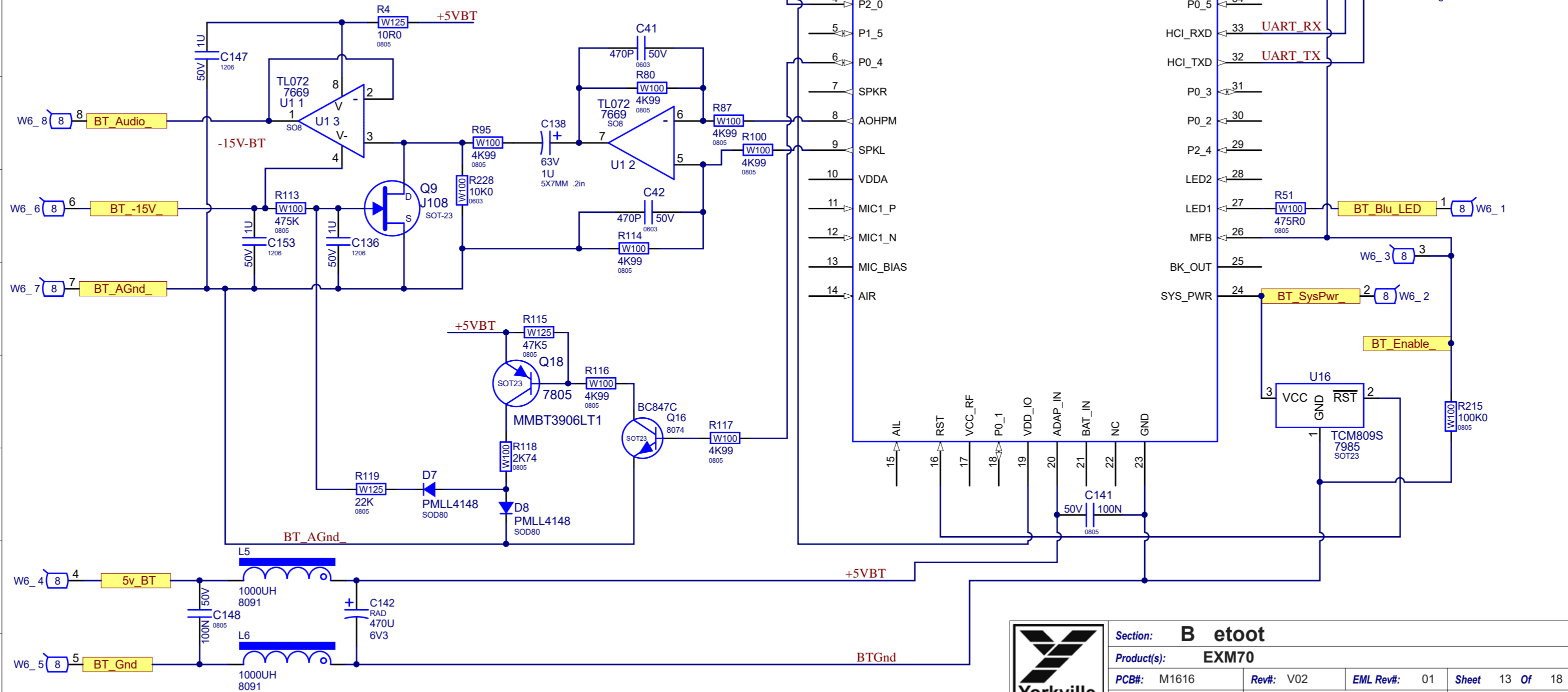
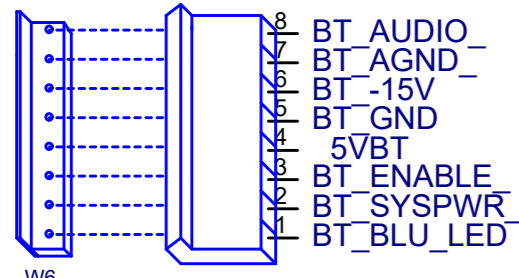
* - 4CM X 4 CM copper heatsink area.



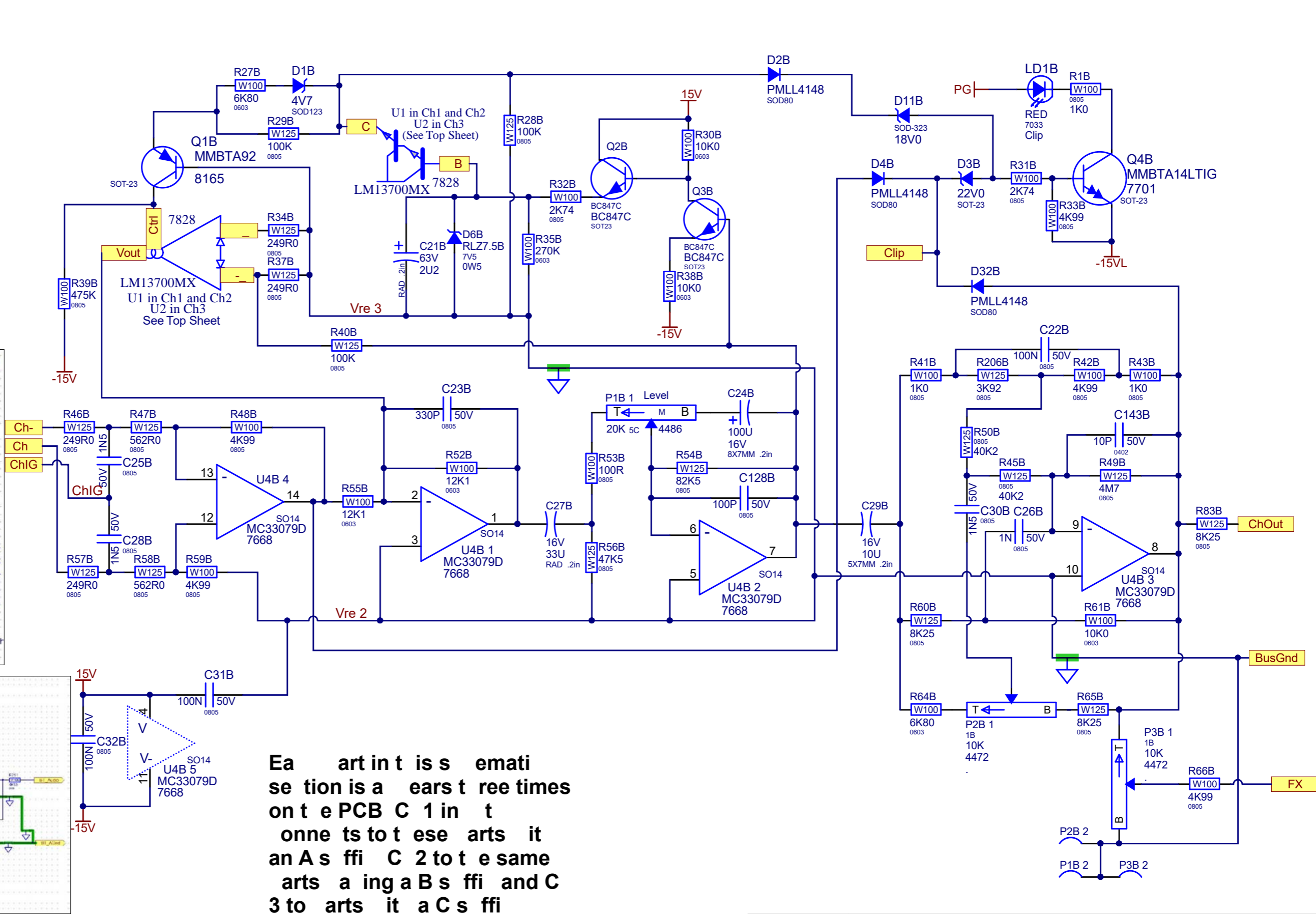
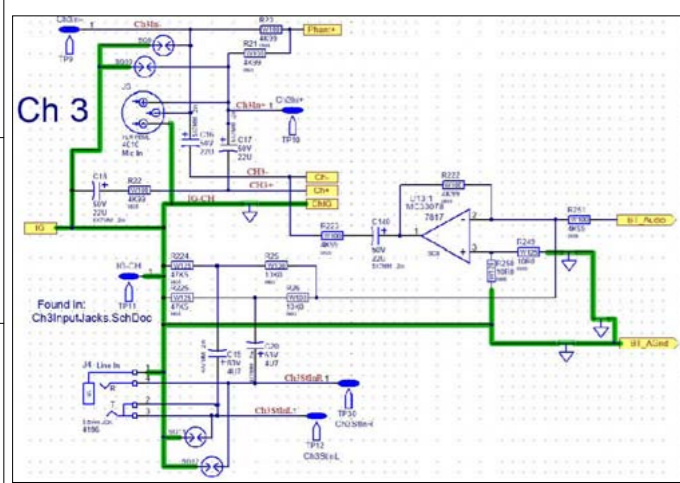
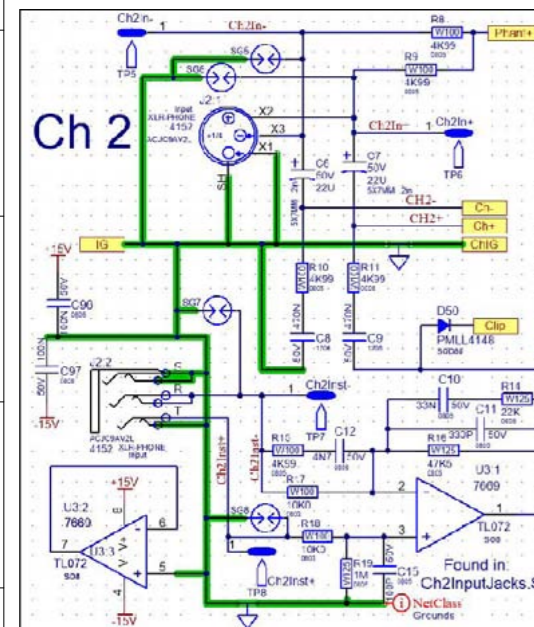
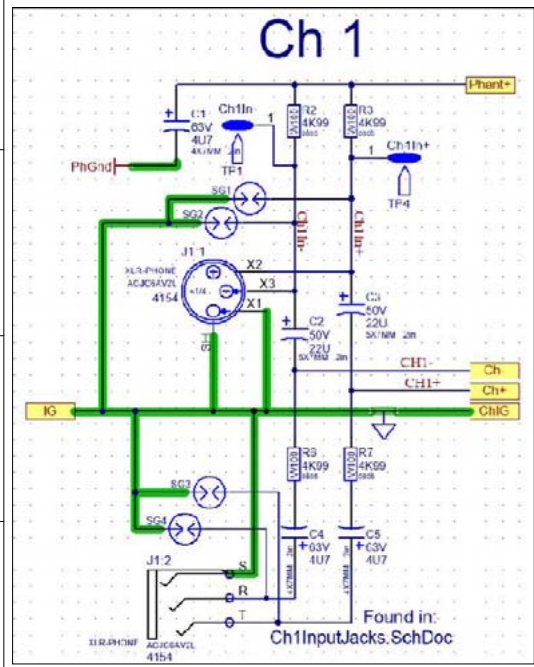
Section: Po er S y			
Product(s): EXM70			
PCB#: M1616	Rev#: V02	EML Rev#: 01	Sheet 12 Of 18
Modified: 2019-11-18	File: PowerSupply.SchDoc	Tmp Rev: V031	

Tag_Connect - UART PCB connections - W5

10	-	5v In	-	3
9,7,3	-	RX	-	5
1	-	BT_GND	-	1
2	-	P0_0	-	2
4	-	P2_4	-	4
6	-	TX	-	6



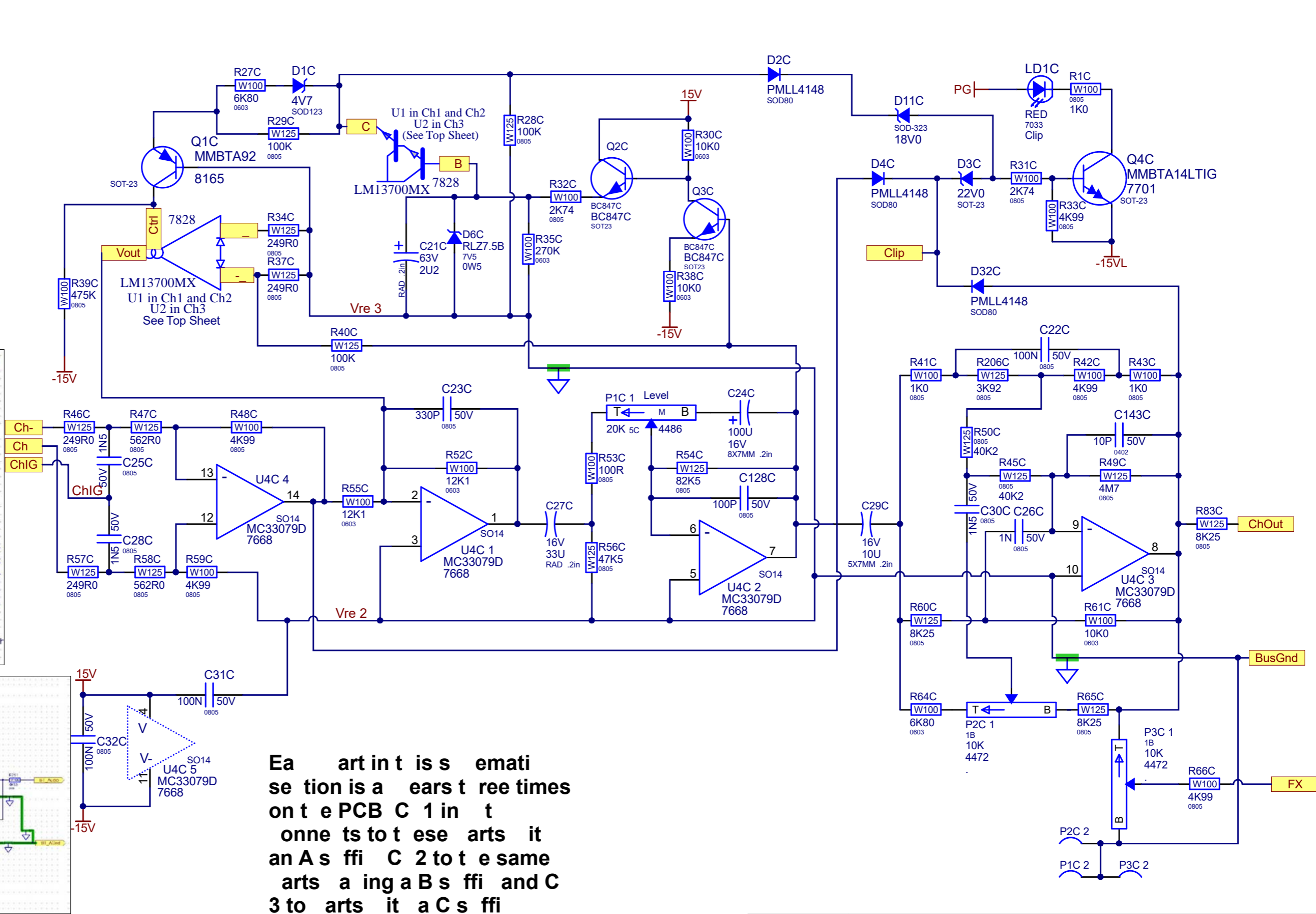
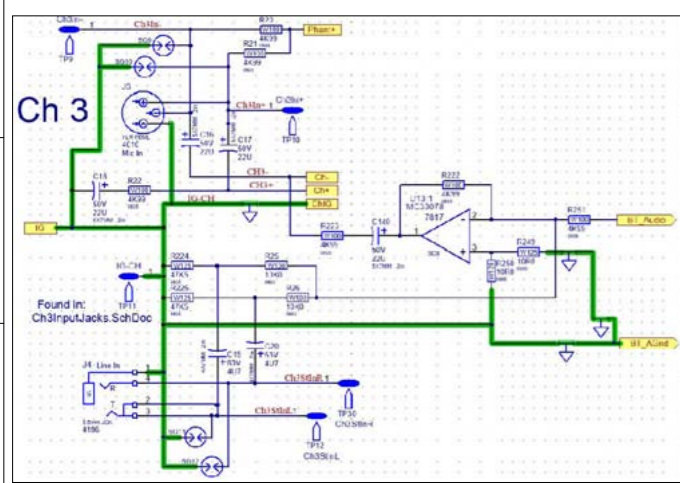
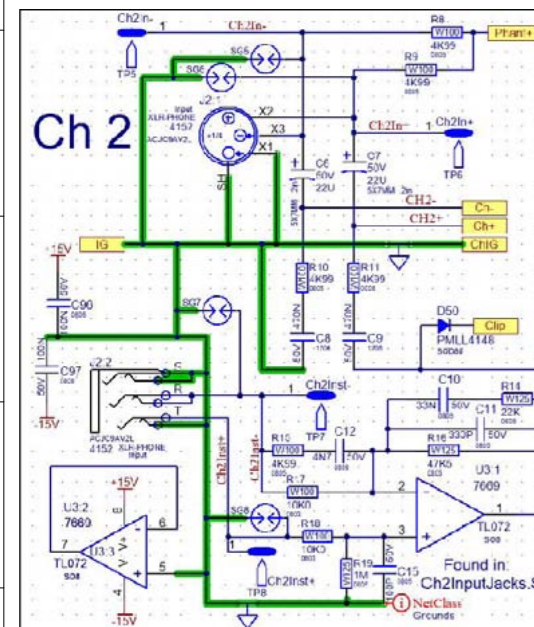
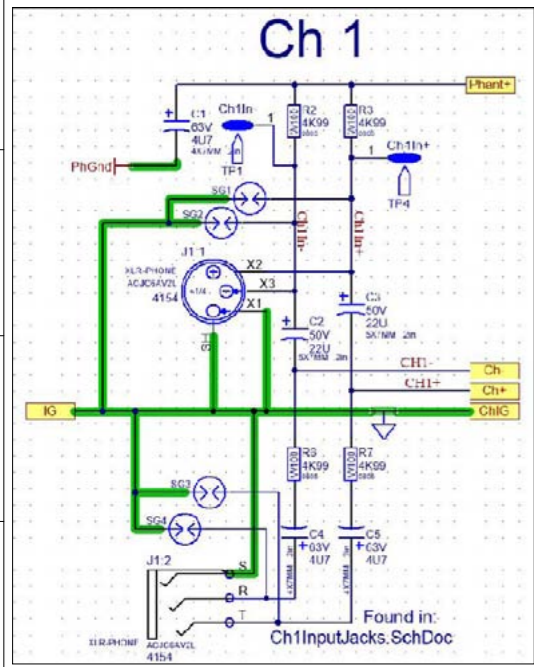
Section: B etoot			
Product(s): EXM70			
PCB#: M1616	Rev#: V02	EML Rev#: 01	Sheet 13 Of 18
Modified: 2019-11-18	File: BluetoothBM20.SchDoc	Tmp Rev: V031	



Ea art in t is s emati
 se tion is a ears t ree times
 on t e PCB C 1 in t
 onne ts to t ese arts it
 an A s ffi C 2 to t e same
 arts a ing a B s ffi and C
 3 to arts it a C s ffi



Section: Mono C anne s Common Parts			
Product(s): EXM70			
PCB#: M1616	Rev#: V02	EML Rev#: 01	Sheet 17 Of 18
Modified: 2019-11-18	File: MonoChannel.SchDoc	Tmp Rev: V031	



Each part in this schematic section is a first time on the PCB. Comment on the PCB. Comment on the PCB. Comment on the PCB.



Section: Mono Channel Common Parts			
Product(s): EXM70			
PCB#: M1616	Rev#: V02	EML Rev#: 01	Sheet 18 Of 18
Modified: 2019-11-18	File: MonoChannel.SchDoc	Tmp Rev: V031	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

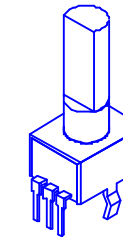
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	09-APR-2018	V01	.	RELEASED FOR PRODUCTION
2	09-MAY-2017	.	.	BEND 3 CAPACITORS C3, C21B, C60 AND RTV IN PLACE
3	24-Sept-2019.	.	9352	Change P1 A,B,C rom 4483 to 4486.
4	.	.	9394	Rotate C142, 470U/6v3 cap 180 degrees.
5	.	.	9437	Change R251 and R249 rom 1K21 to 4K99.
6	12-Nov-2019	V02	9458	Change PWR LED dropping resistor rom 3 15K0 in parallel to 4 1K21 in series.
7	.	.	9419	Add the pairing switch timeout circuit that s in the EXMmobile.
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#
P1A	LEVEL	4483	P32	10043
P1B	LEVEL	4483	P32	10043
P1C	LEVEL	4483	P32	10043
P2A	Shape	4472	P32	9921
P2B	Shape	4472	P32	9921
P2C	Shape	4472	P32	9921
P3A	FX Send	4472	P32	9921
P3B	FX Send	4472	P32	9921
P3C	FX Send	4472	P32	9921
P4	Master	4433	P32	10043
S1	FX Select	4189	ROT	10045
S2	BT_Enable	3439	MOM	8637
.



"STYLE_P32"

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

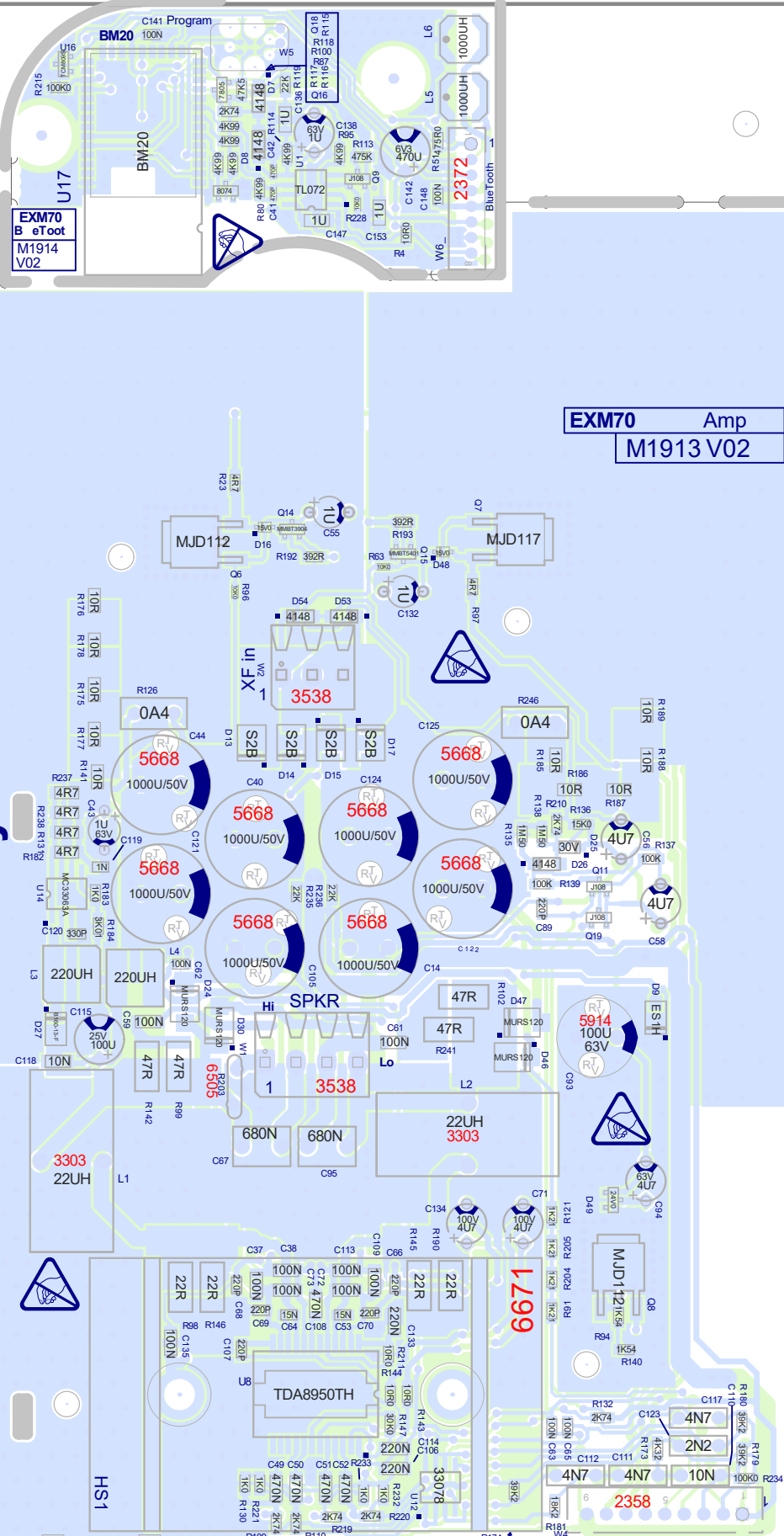


EXM70

BlankSi e - 243.0mmX222.0mm 9570X8740

Tie transformer secondary wires

Wave Solder

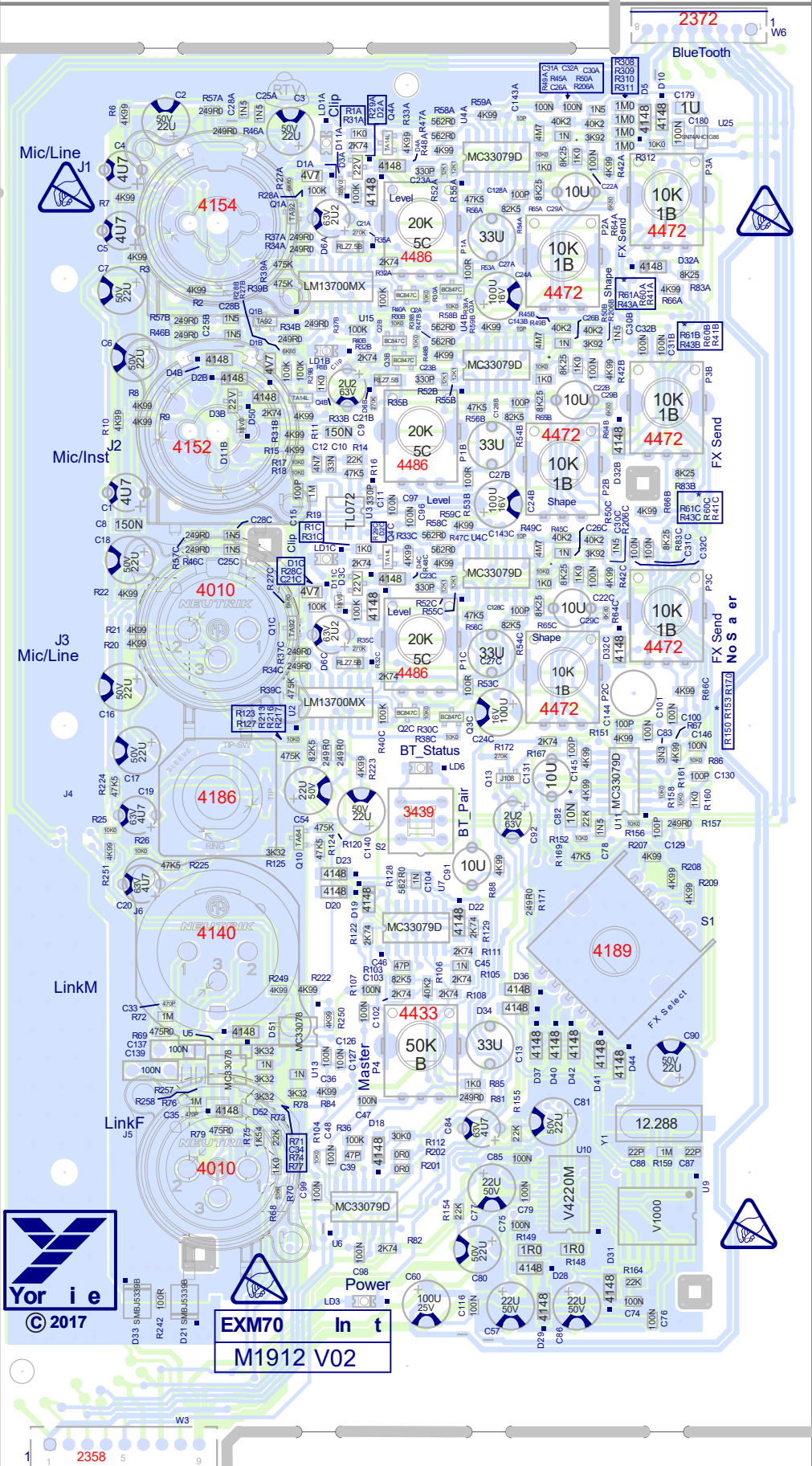


EXM70 Amp
M1913 V02

6679

2358

Heatsink screw brace.



EXM70 In t
M1912 V02

Yor i e
© 2017

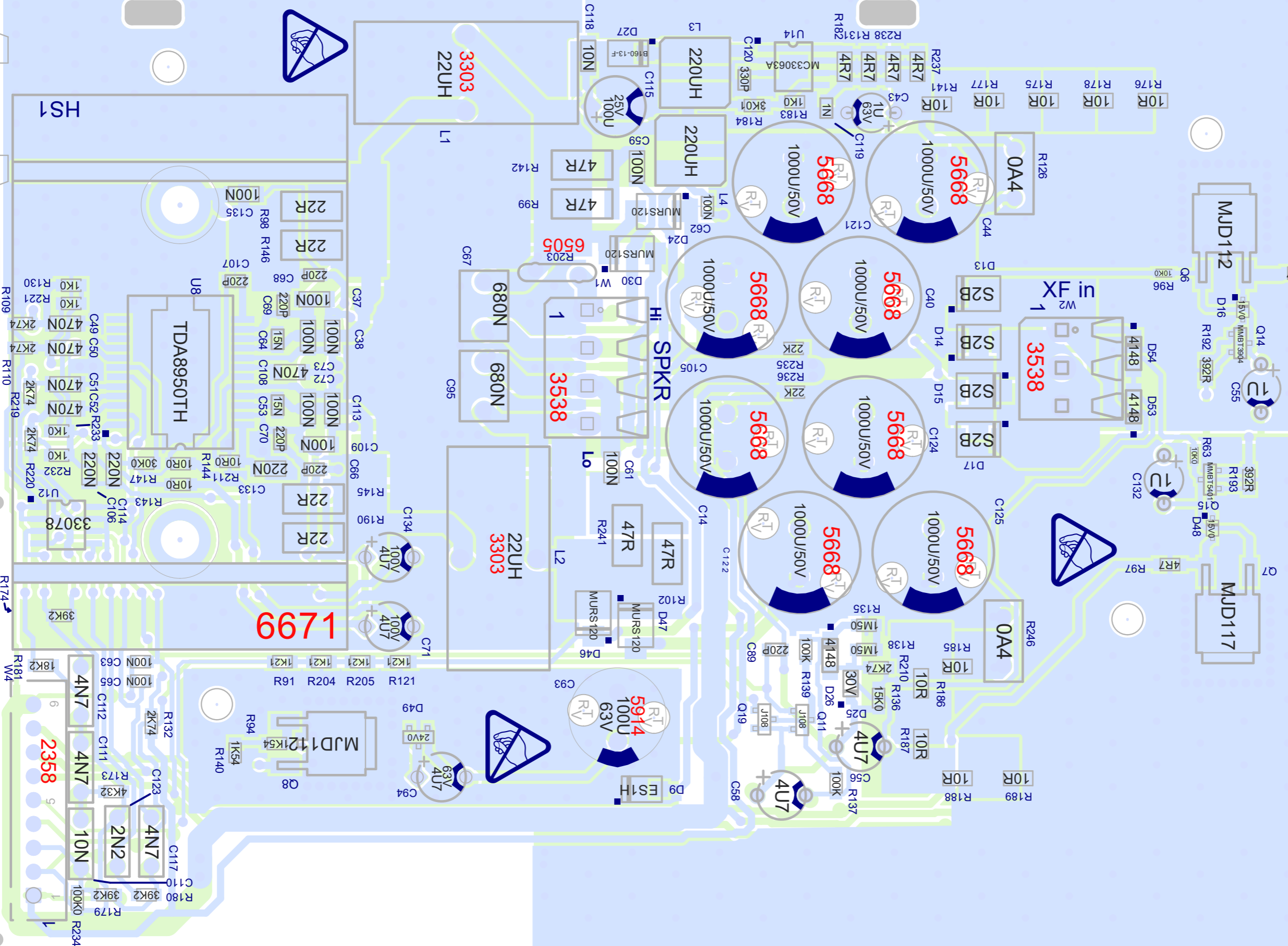
2358

M1616V02 EXM70

SECONDARY

Tie transformer secondary wires here

EXM70 Amp
M1913 V02



1799

3303
22UH

3538

5668

5668

5668

5668

5668

5668

5914

HS1

TDA8950TH

OA4

OA4

MJD112

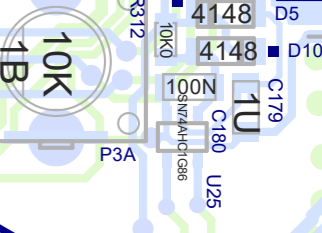
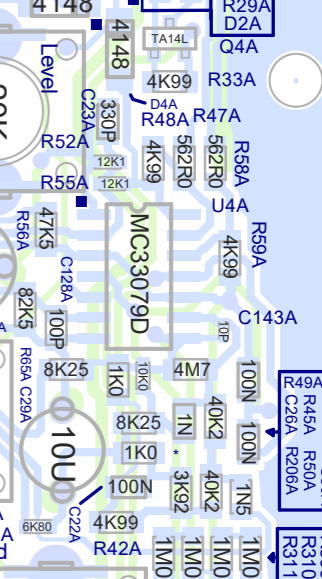
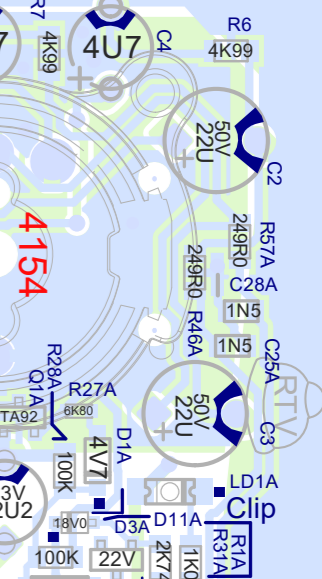
MJD117

VCD

Heatsink screw brace.

ORIGIN

2372

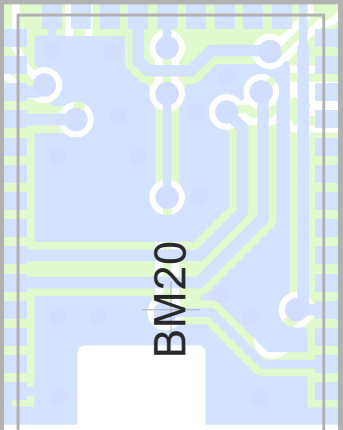


EXM70
B eToot
M1914
V02

U17

R215
TCM809
C16
100K0

BM20 C141 Program
100N



BM20



7805 47K5
2K74 4148
4K99 4148
4K99 4K99
4K99 4K99
8074 D8
R80 4K99
C41 470P 470P C42 R114
4K99 1U
U1 63V 1U
C136 R119
W5

Q18
R118
R100
R117 R87
R116
Q16



TL072

1U

C138 R95
4K99 R113
475K



6V3 470U

J108 Q9
10K0 R228
1U
C147 C153

R4 10R0
W6_ C142 C148
100N R51475R0

L6

L5



1000UH



1000UH

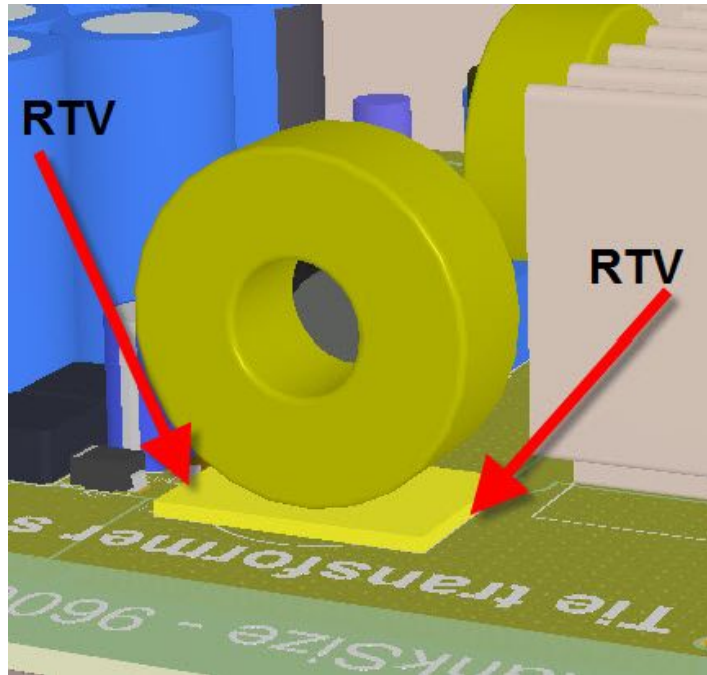


2372

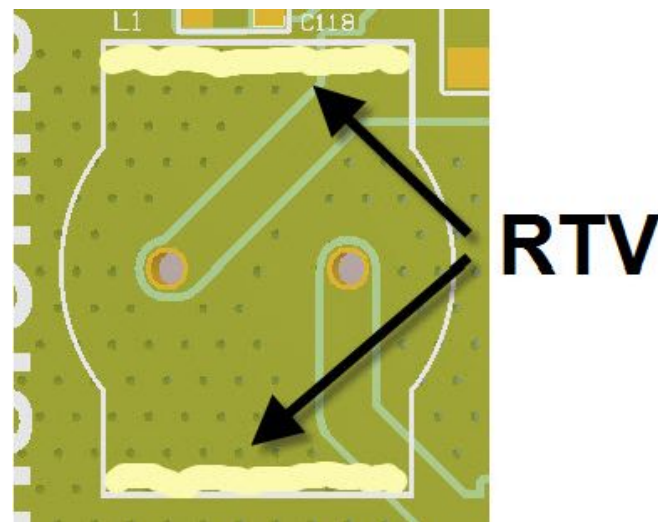
BlueTooth

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

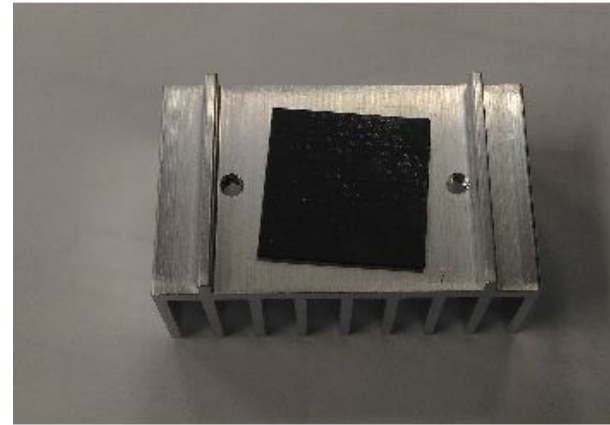


Place RTV under the base of L1 and L2 at the edges of the silicon on the line

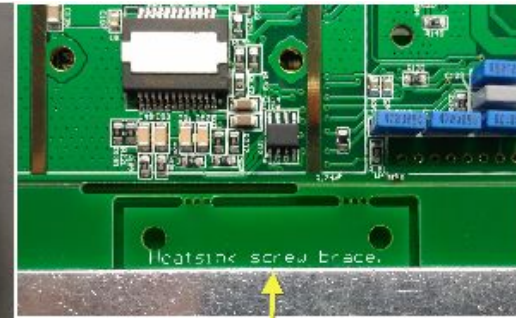


Do not bend the leads of S1

Heatsink Assembly PCB Finishing



Place 4144 pad on the Heatsink.



Break out the Heatsink Screw Brace



Dip each screw in Loctite. Cover 2 threads.



Mount 6671 using the 2 screws with the Heatsink Screw Brace between the screws and the PCB. Tighten to 4 in/lbs.

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

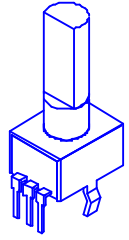
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	09-APR-2018	V01		RELEASED FOR PRODUCTION
2	09-MAY-2017	.	.	BEND 3 CAPACITORS C3, C21B, C60 AND RTV IN PLACE
3	24-Sept-2019.	.	9352	Change P1 A,B,C rom 4483 to 4486.
4	.	.	9394	Rotate C142, 470U/6v3 cap 180 degrees.
5	.	.	9437	Change R251 and R249 rom 1K21 to 4K99.
6	12-Nov-2019	V02	9458	Change PWR LED dropping resistor rom 3 15K0 in parallel to 4 1K21 in series.
7	.	.	9419	Add the pairing switch timeout circuit that s in the EXMmobile.
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

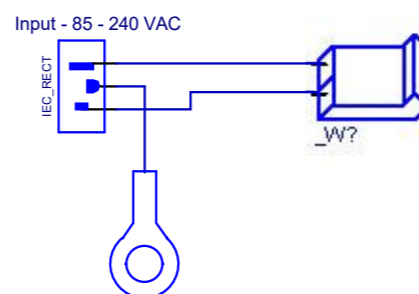
POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P1A	LEVEL	4483	P32	10043
P1B	LEVEL	4483	P32	10043
P1C	LEVEL	4483	P32	10043
P2A	Shape	4472	P32	9921
P2B	Shape	4472	P32	9921
P2C	Shape	4472	P32	9921
P3A	FX Send	4472	P32	9921
P3B	FX Send	4472	P32	9921
P3C	FX Send	4472	P32	9921
P4	Master	4433	P32	10043
S1	FX Select	4189	ROT	10045
S2	BT_Enable	3439	MOM	8637
.



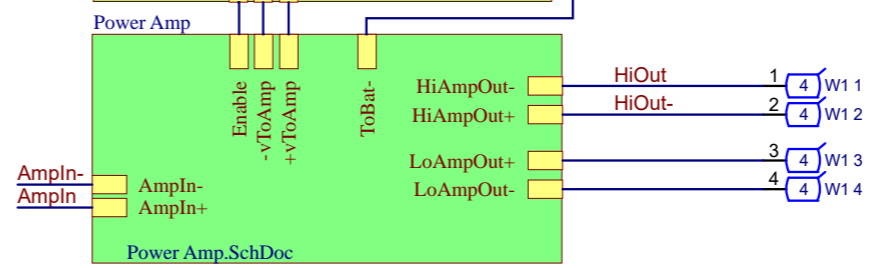
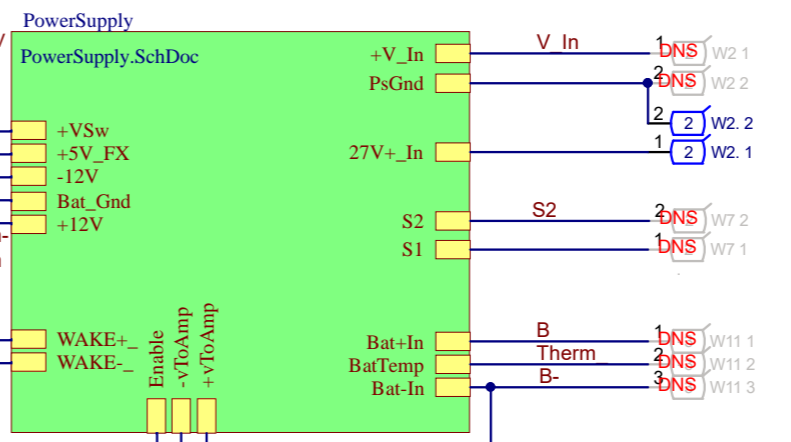
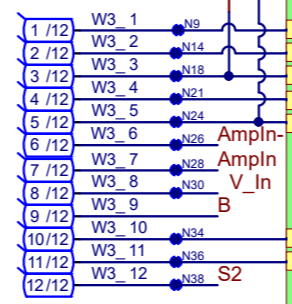
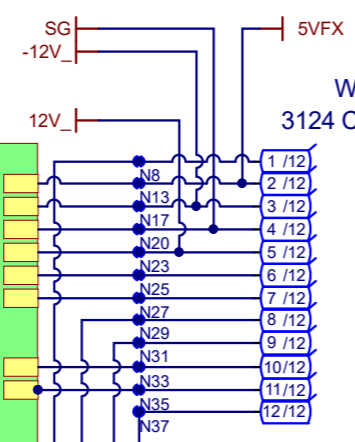
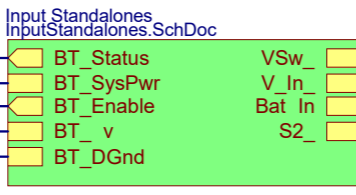
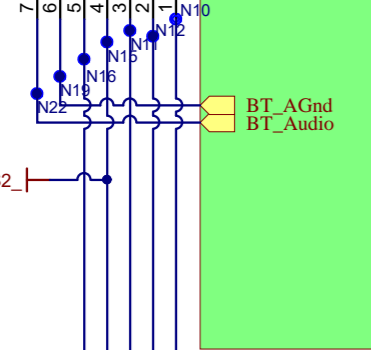
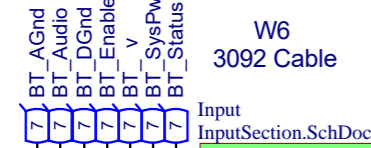
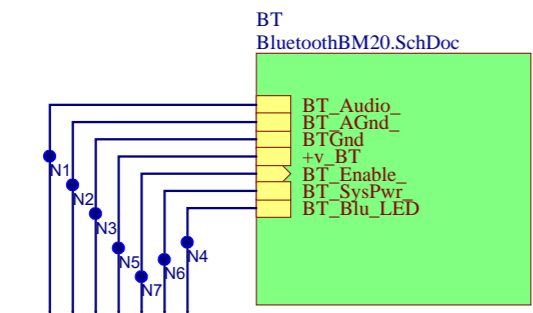
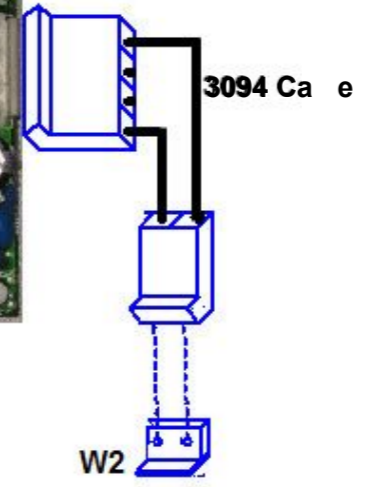
"STYLE_P32"

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



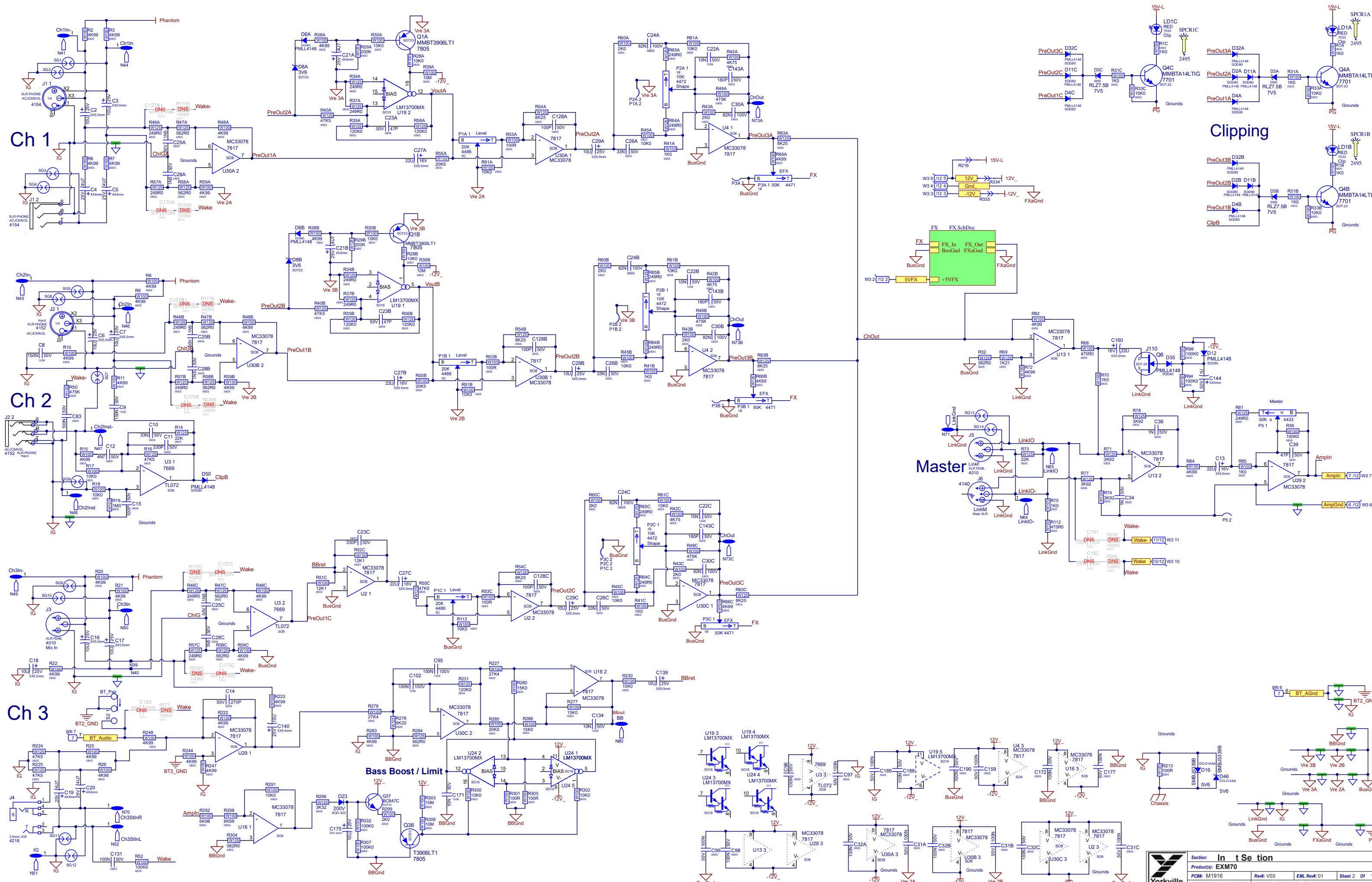


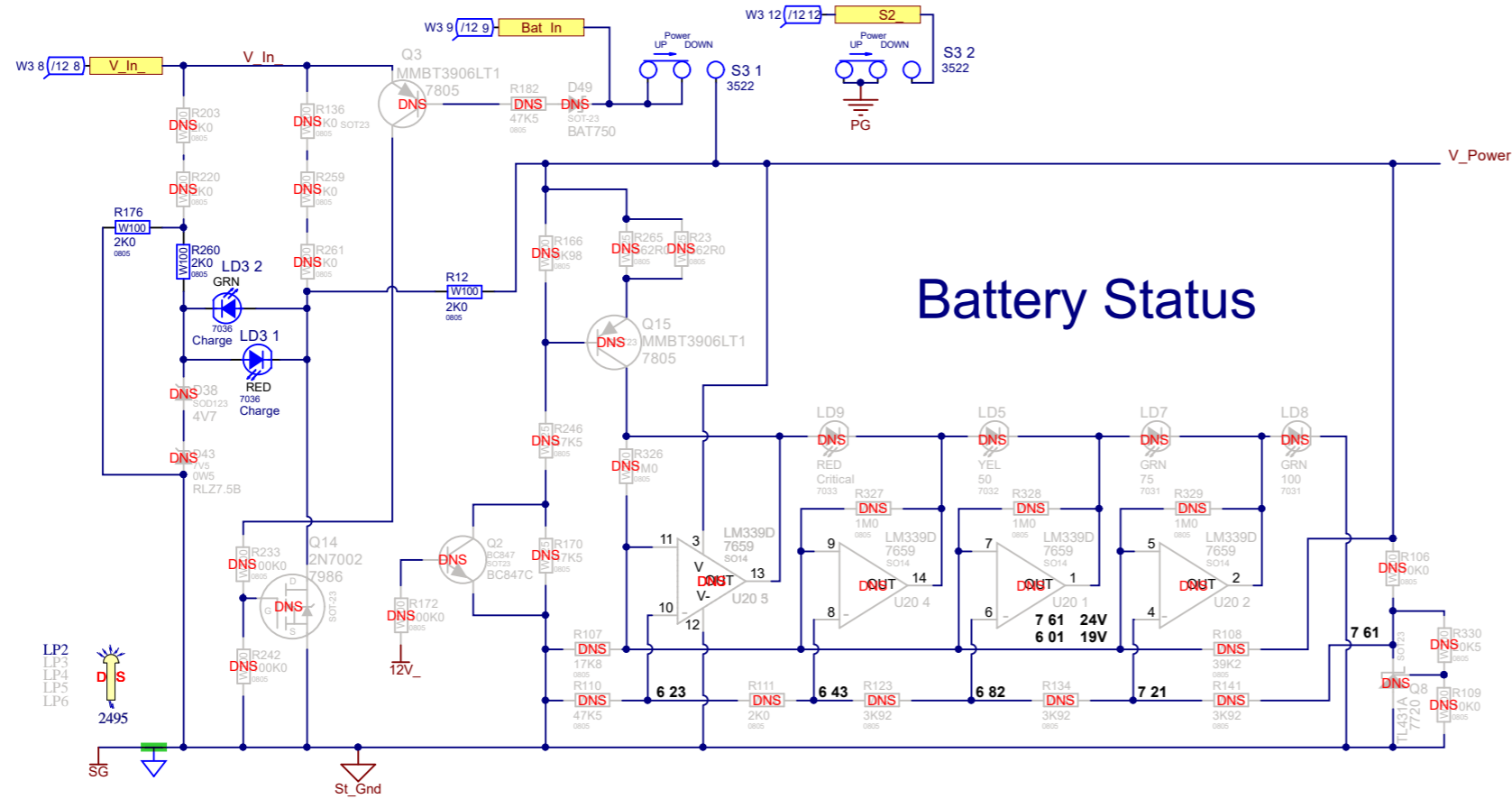
9708 Power Supply



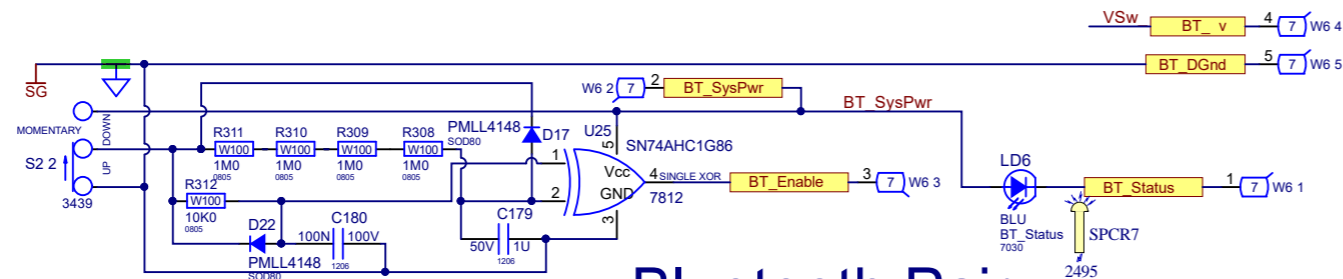
Yorkville Sound Ltd.
550 Granite Court
Pickering, ON
Canada L1W 3Y8
www.yorkville.com

Product(s): EXM70	
Description: Battery Powered PA Speaker	
PCB#: M1916	Rev#: V05
Modified: 2022-04-08	File: Top Sheet.SchDoc
EML Rev#: 01	Sheet 1 Of 10
Tmp Rev: V031	

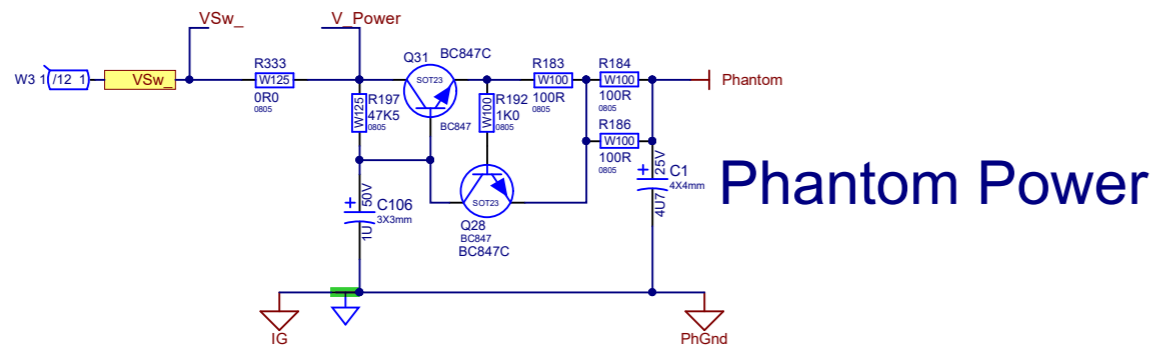




Battery Status



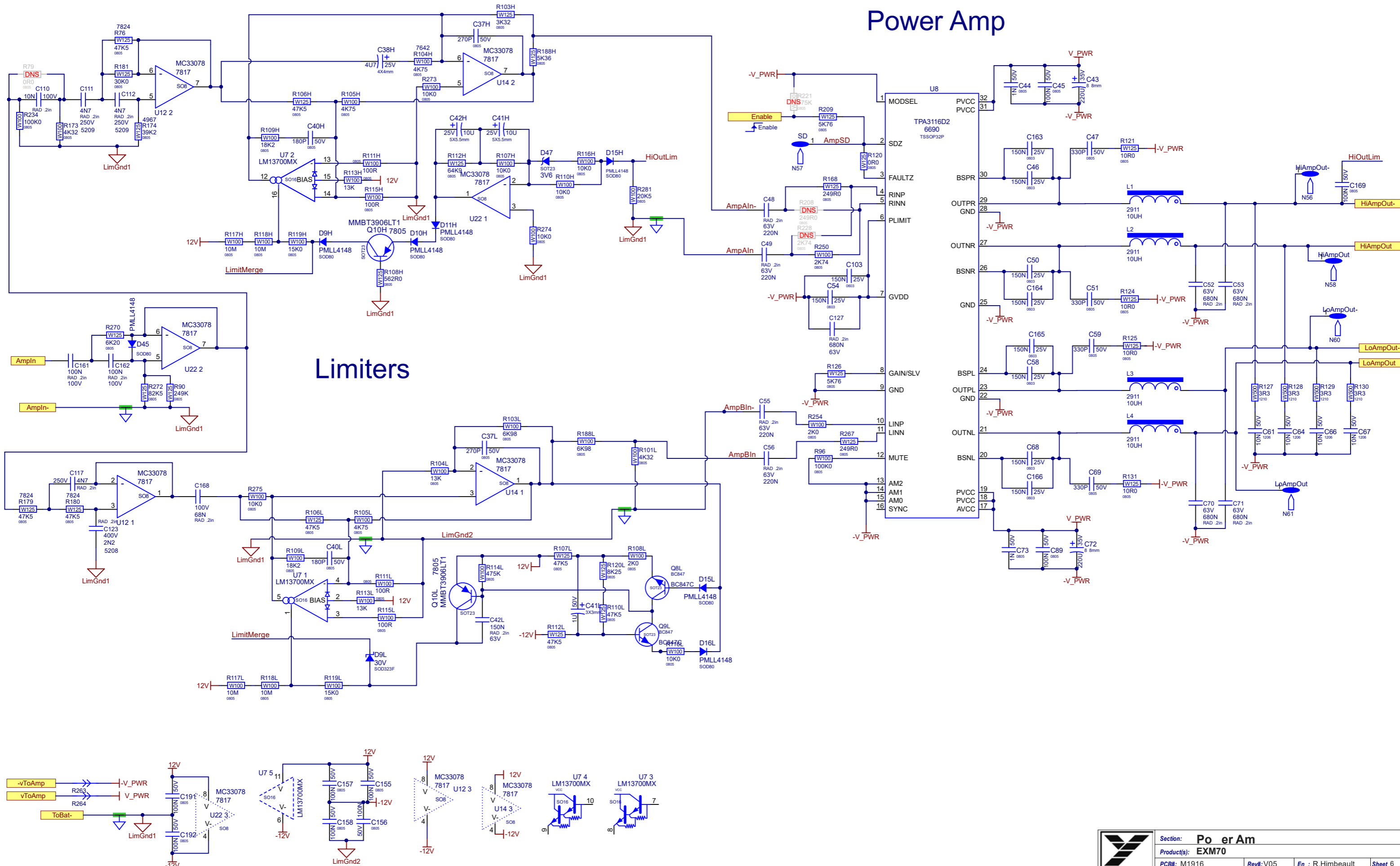
Bluetooth Pair

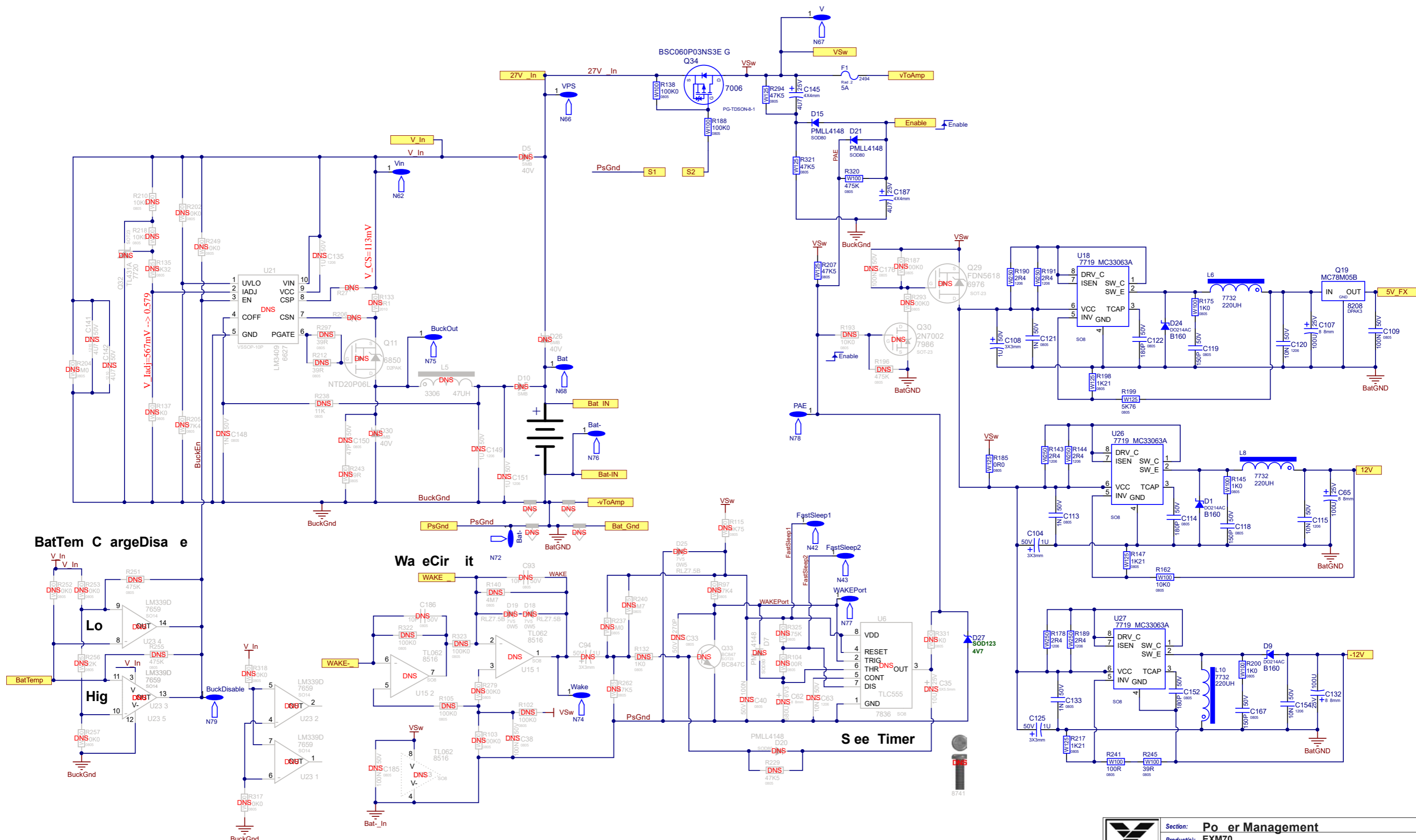


Phantom Power



Power Amp

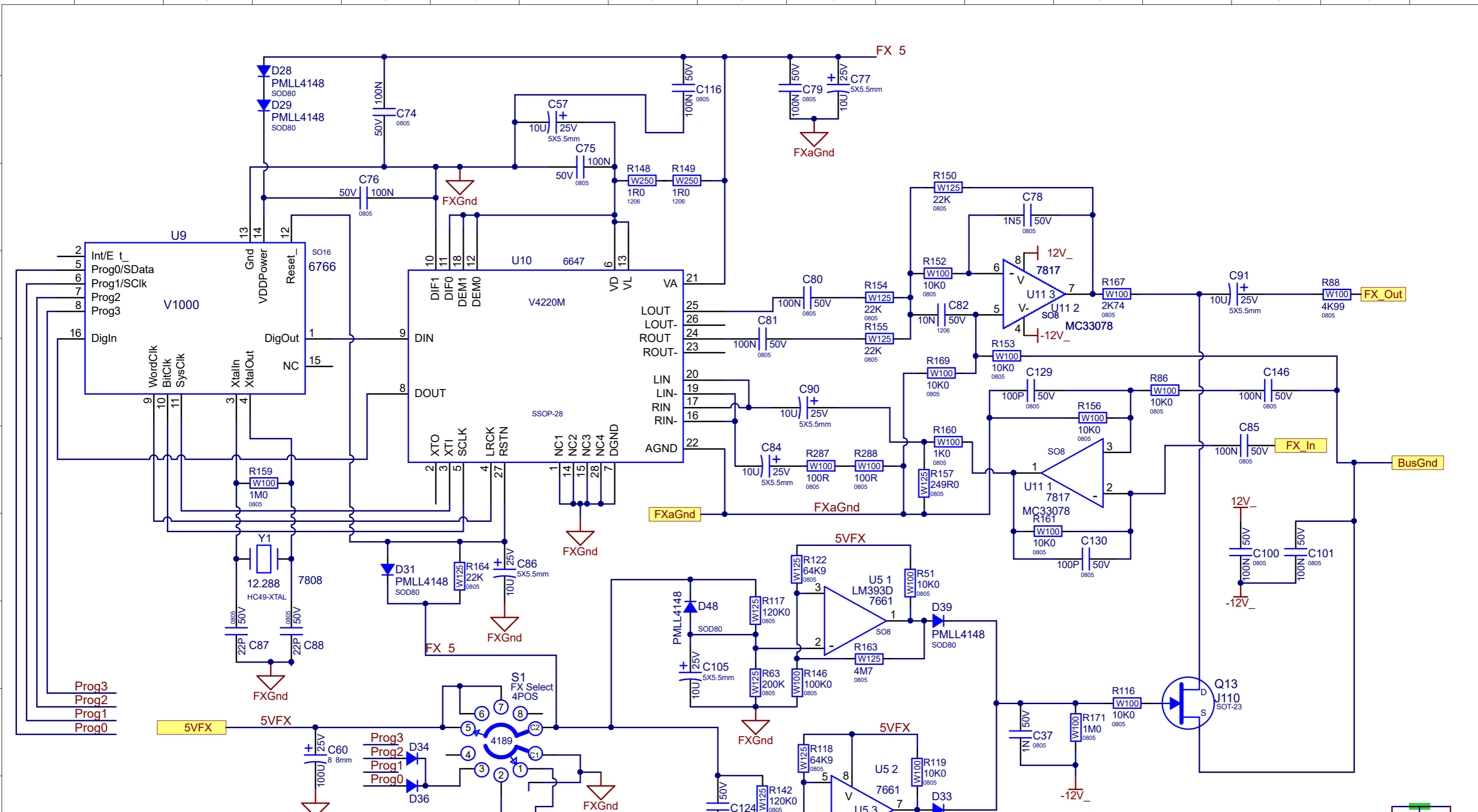




BatTem C argeDisa e

Wa eCir it

S ee Timer

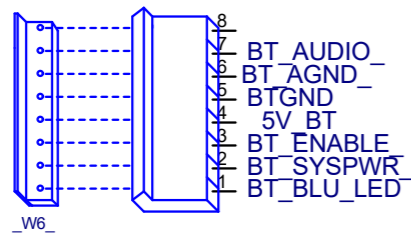


V1000 Effects selection

S1 Pos	Code	Effect
1	0010	Room3b-Reverb, Room (1.8 sec.)
2	0110	Room2a-Reverb Chapel (3 sec.)
3	1010	Delay7-Echo
4	N/A	Off

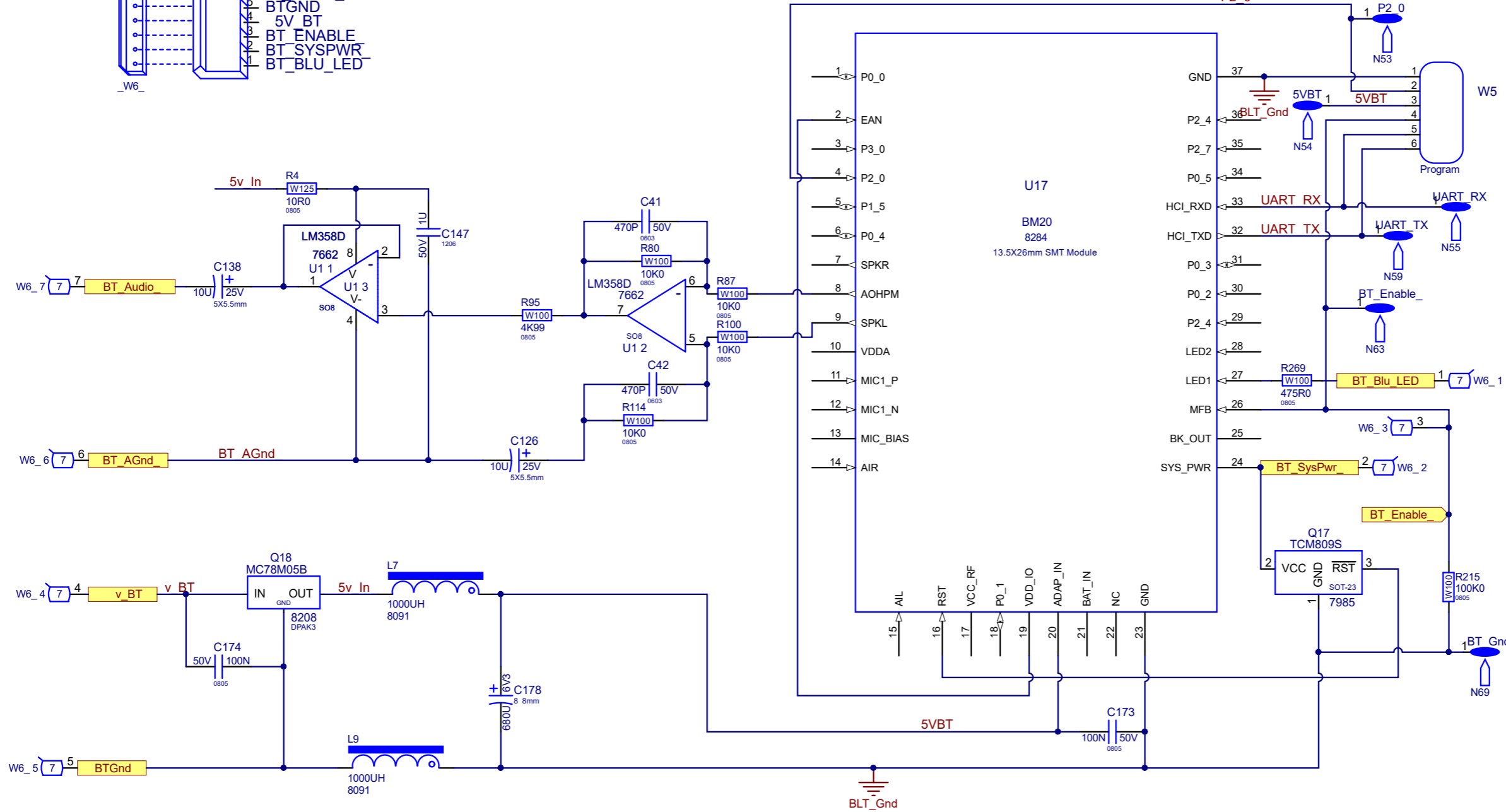


Section: Digital Effects	
Product(s): EXM70	
PCB#: M1916	Rev#: V05
EML Rev#: 01	Sheet 8 Of 10
Modified: 2022-04-08	File: FX.SchDoc
Tmp Rev: V031	



Tag_Connect - UART PCB connections - W5

10	-	5v In	-	3
9,7,3	-	RX	-	5
1	-	BT_GND	-	1
2	-	P0_0	-	2
4	-	P2_4	-	4
6	-	TX	-	6



Product(s): EXM70			
escription: Battery Powered PA Speaker			
PCB#: M1916	Rev#: V05	EML Rev#: 01	Sheet 16 Of 10
Modified: 2022-04-08	File: BluetoothBM20.SchDoc	Tmp Rev: V031	

DESIGN HISTORY AND INFORMATION

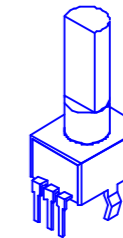
CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	06-AUG-2020	V01	.	RELEASED FOR PRODUCTION
2	18-SEP-2020	V02	9594	Multiple revisions per schematics in PC9594 pd document
3	18-NOV-2020	V03	9597	Replaced 5V regulators Q18 and Q19 7918 with 8208
4	19-NOV-2020	V03	9614	Backed o 5V copper fill and trace rom mtg screw in bluetooth section.
5	12-JAN-2021	V04	9619	Rerouted battery status and S3 connections according to PC9619.
6	13-Sept-2021	V04	9669	Updated heatsink to in-house version, updated heatsink assembly instructions.
7	07-APR-2022	V05	9713	Moved C170B away rom mounting hole
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#
P1A	LEVEL	4486	P32	.
P1B	LEVEL	4486	P32	.
P1C	LEVEL	4486	P32	.
P2A	Shape	4472	P32	.
P2B	Shape	4472	P32	.
P2C	Shape	4472	P32	.
P3A	FX Send	4471	P32	.
P3B	FX Send	4471	P32	.
P3C	FX Send	4471	P32	.
P4	Master	4433	P32	.
S1	FX Select	4189	.	.
S2	BT_Pair	3499	.	.
S3	Power	3522	.	.



"STYLE_P32"



EXM 70

Bluetooth™

1. Channel 1 Input

The combi-jack is for a mic (XLR) or a balanced line level (1/4-inch) source. 24V phantom power is present on the XLR portion of the jack.

2. Channel 2 Input

The combi-jack is for a mic (XLR) or an instrument (1/4-inch). 24V phantom power is present on the XLR portion of the jack.

3. Channel 3 Input

The XLR jack is for a mic, the 1/8-inch phone jack for media players and the Bluetooth™ for streaming audio. 24V phantom power is present on the XLR input of the jack.

Note: When Bluetooth™ is used the volume is controlled by Channel 3's Level control.

4. Bluetooth™

Bluetooth™ operating range is rated 10 meters (33 feet). The quality of the link can be affected by an excess of traffic in the 2.4 GHz bandwidth or obstructions.

Pairing

For 'Pairing' depress the Enable Button for 4 seconds and then release.

Status

Slow blinking indicates pairing mode while fast blinking indicates an available, unpaired connection. A steady (solid) blue light indicates it's paired and audio is available to Channel 3.

5. Channel Level Controls

The Level controls adjust the channel gain over an 85 dB range. Use these controls to adjust each channel's volume in the overall system mix. The LED indicates clipping.

6. Channel Shape Controls

Setting this control towards 'Music' shapes the response to be suited for reproducing prerecorded music while setting the control towards 'Speech' accentuates the mid-frequencies which help speech and vocals. The response is flat in the center position.

7. Channel Effects Controls

This control determines how much of the selected effect is applied to the corresponding channel.

8. Master Control

The Master Control is used to set the overall level of the Yorkville EXM70.

9. Effects Selector

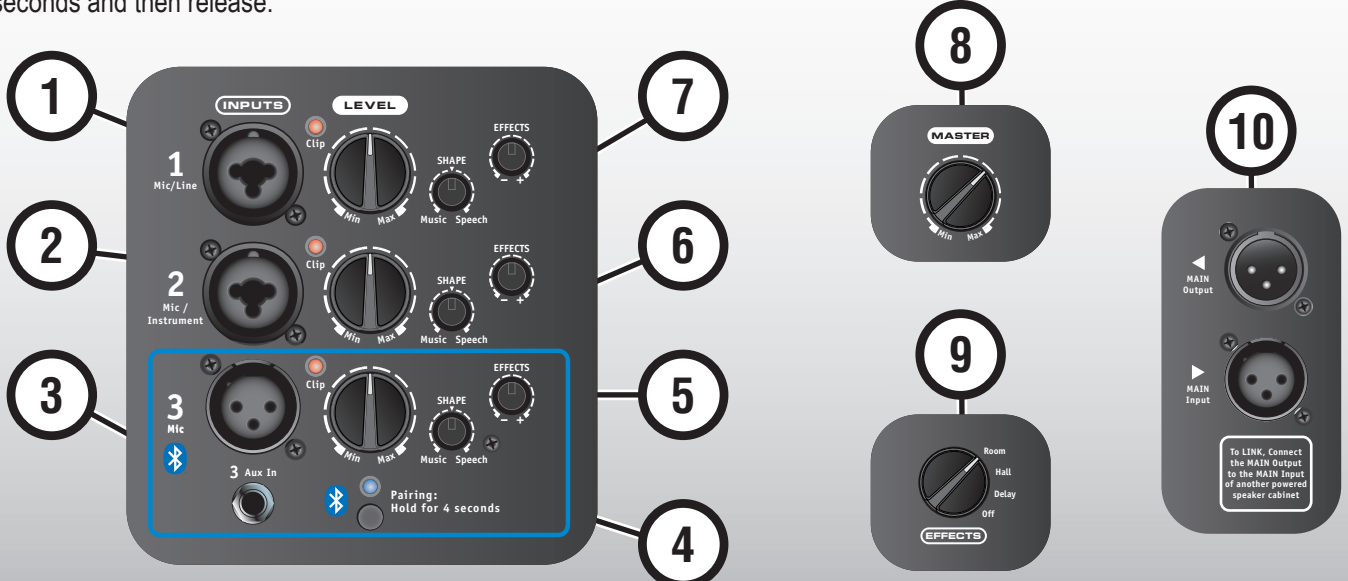
Three effects are available with this control, as well as an off (no-effects) position. The effects are Delay, Hall Reverb and Room Reverb. The selected effect is available to all 3 input channels and the amount of effect applied is controlled by the individual channel's effects knob.

10. Link Jacks

The Link jacks are used to connect multiple EXM70 systems and/or a subwoofer. The jacks are in parallel, both a male and female XLR to help make it more convenient to 'link' enclosures together. To use the Link feature, insert a standard XLR patch cable between cabinets.

11. Pole Mount

The built in pole stand adapter and can use a standard Yorkville pole-mount speaker stand.



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-EXM70-00-1v7 • YS#QSTARTEXM70 • December 15, 2022



EXM 70

Bluetooth™

1. Entrée Canal 1

Le combi-jack est pour un micro (XLR) ou une source de niveau ligne équilibrée (1/4-pouce). L'alimentation en duplex 24 V est présente sur la partie XLR du jack.

2. Entrée Canal 2

Le combi-jack est pour un micro (XLR) ou une source de niveau ligne équilibrée (1/4-pouce). L'alimentation en duplex 24V est présente sur la partie XLR du jack.

3. Entrée Canal 3

La prise XLR est pour un micro, la prise 1/8-pouce pour les lecteurs multimédia et la technologie Bluetooth™ pour la diffusion audio. L'alimentation en duplex 24V est présente sur la partie XLR du jack.

Remarque: Lorsque Bluetooth™ est utilisé, le volume est contrôlé par la commande de niveau du canal 3.

4. Bluetooth™

La portée de fonctionnement Bluetooth™ est évaluée à 10 mètres (33 pieds). La qualité de la connexion peut être affectée par un excès de trafic dans la bande passante de 2,4 GHz ou des obstructions.

Bluetooth™ Jumelage

Pour le jumelage, appuyez sur le bouton "Enable" pendant 4 secondes, puis relâchez.

Bluetooth™ Status

Le clignotement lent indique le mode de jumelage alors que le clignotement rapide indique une connexion non appariée disponible. Une lumière bleue fixe (solide) indique que l'enceinte est jumelée et que le canal 3 est disponible.

5. Commandes de Niveau de Canal

Les commandes de niveau règlent le gain du canal sur une plage de 85 dB. Utilisez ces commandes pour ajuster le volume de chaque canal pour l'ensemble du système. La DEL indique l'écrêtage.

6. Commandes "Shape" de Canal

Si vous réglez cette commande sur 'Music', la réponse est adaptée pour reproduire de la musique préenregistrée. Si vous la réglez à la position 'Speech', les fréquences moyennes qui aident la voix et le chant sont rehaussées. La réponse en fréquence est linéaire lorsque réglé à la position centrale.

7. Commande d'Effets de Canal

Cette commande détermine la quantité de l'effet sélectionné qui est appliqué au canal correspondant.

8. Commande Master

La commande Master est utilisé pour définir le niveau général du Yorkville EXM70.

9. Sélecteur d'Effets

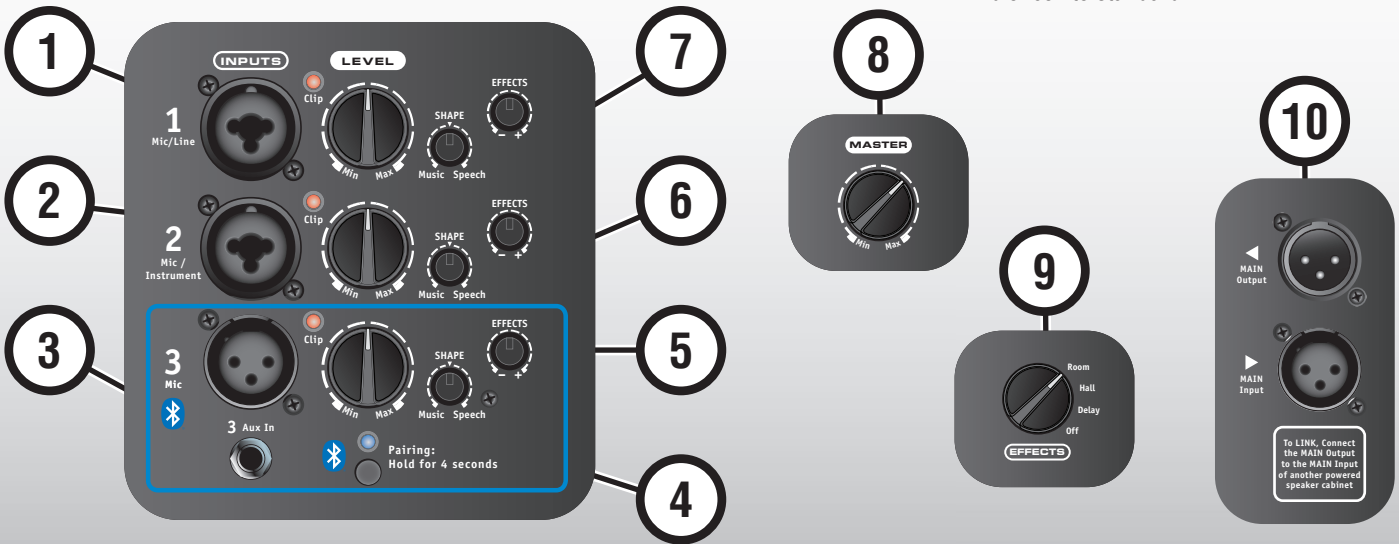
Trois effets sont disponibles avec cette commande, ainsi qu'une position off (sans effets). Les effets sont Delay, Hall Reverb et Room Reverb. L'effet sélectionné est disponible pour les 3 canaux d'entrée et la quantité d'effet appliquée est contrôlée par la commande d'effets de chaque canal.

10. Prises Link

Les prises Link sont utilisées pour connecter plusieurs systèmes EXM70 et / ou un subwoofer. Les prises sont en parallèle. Il y a une prise XLR mâle et une prise XLR femelle pour faciliter le raccordement de plusieurs enceintes. Pour utiliser la fonction Link, insérez un câble de raccordement XLR entre les enceintes.

11. Montage Sur Poteau

L'adaptateur de support de poteau intégré permet l'utilisation d'un poteau de support d'enceinte standard.



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: 905-837-8481
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



Yorkville Sound

550 Granite Court
Pickering, Ontario
Canada L1W 3Y8

Auto Attend: (905) 837-8550

Fax: (905) 837-8746

www.yorkville.com

Wave Solder

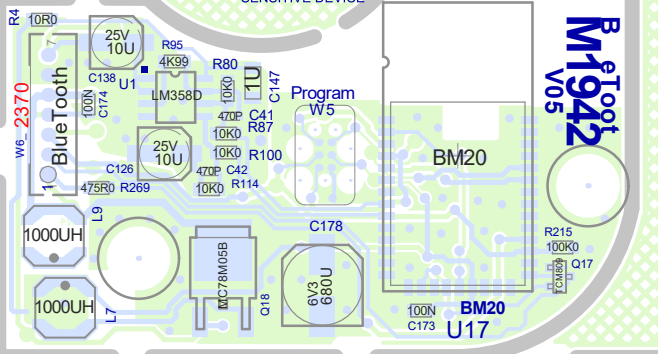
M1939 M1914 M1916

M1916 EXM70

2370 Blue Tooth W6



ATTENTION
ELECTROSTATIC
SENSITIVE DEVICE



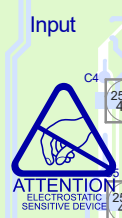
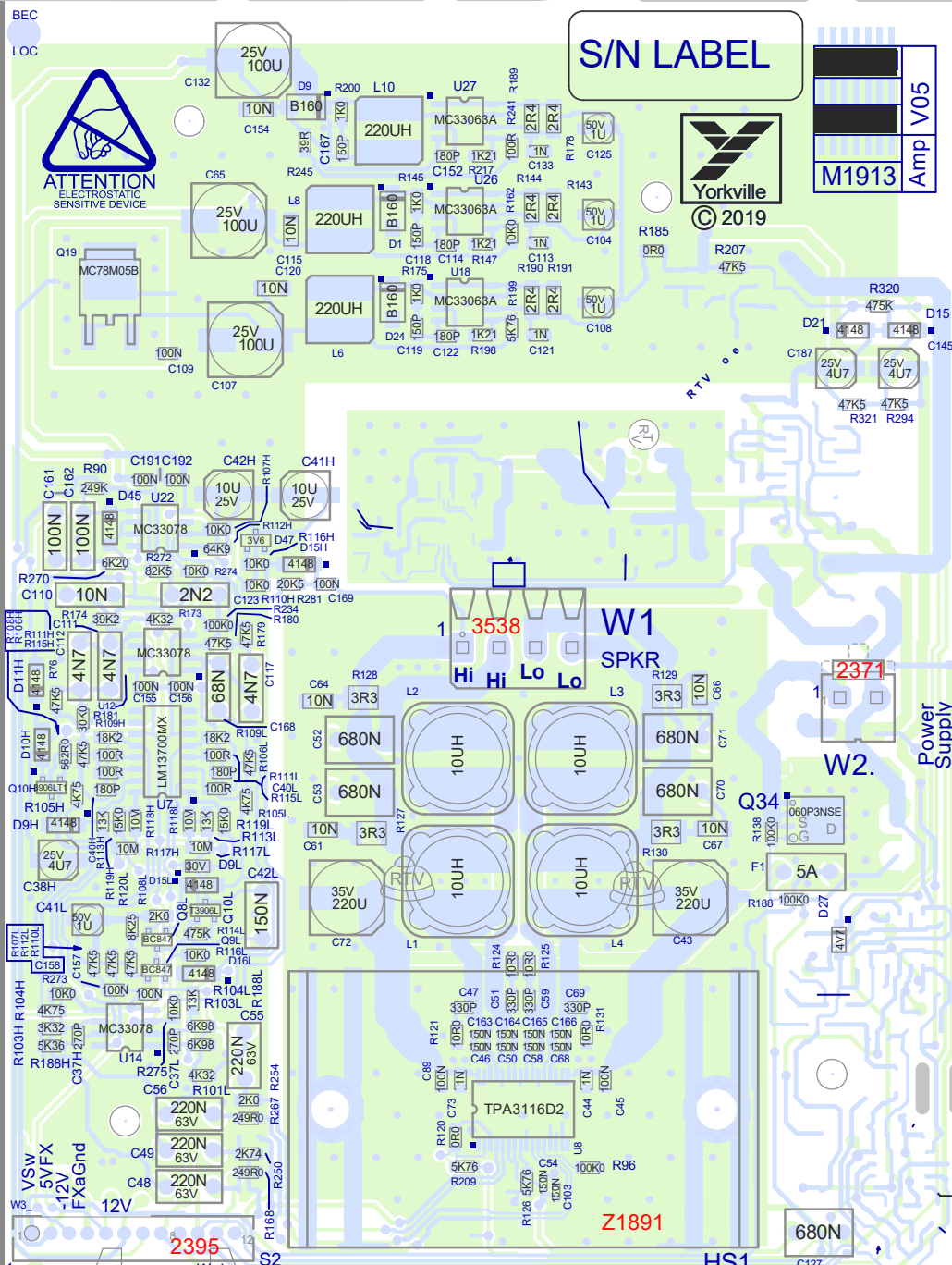
240D/A
023W/R
120D/A

S/N LABEL

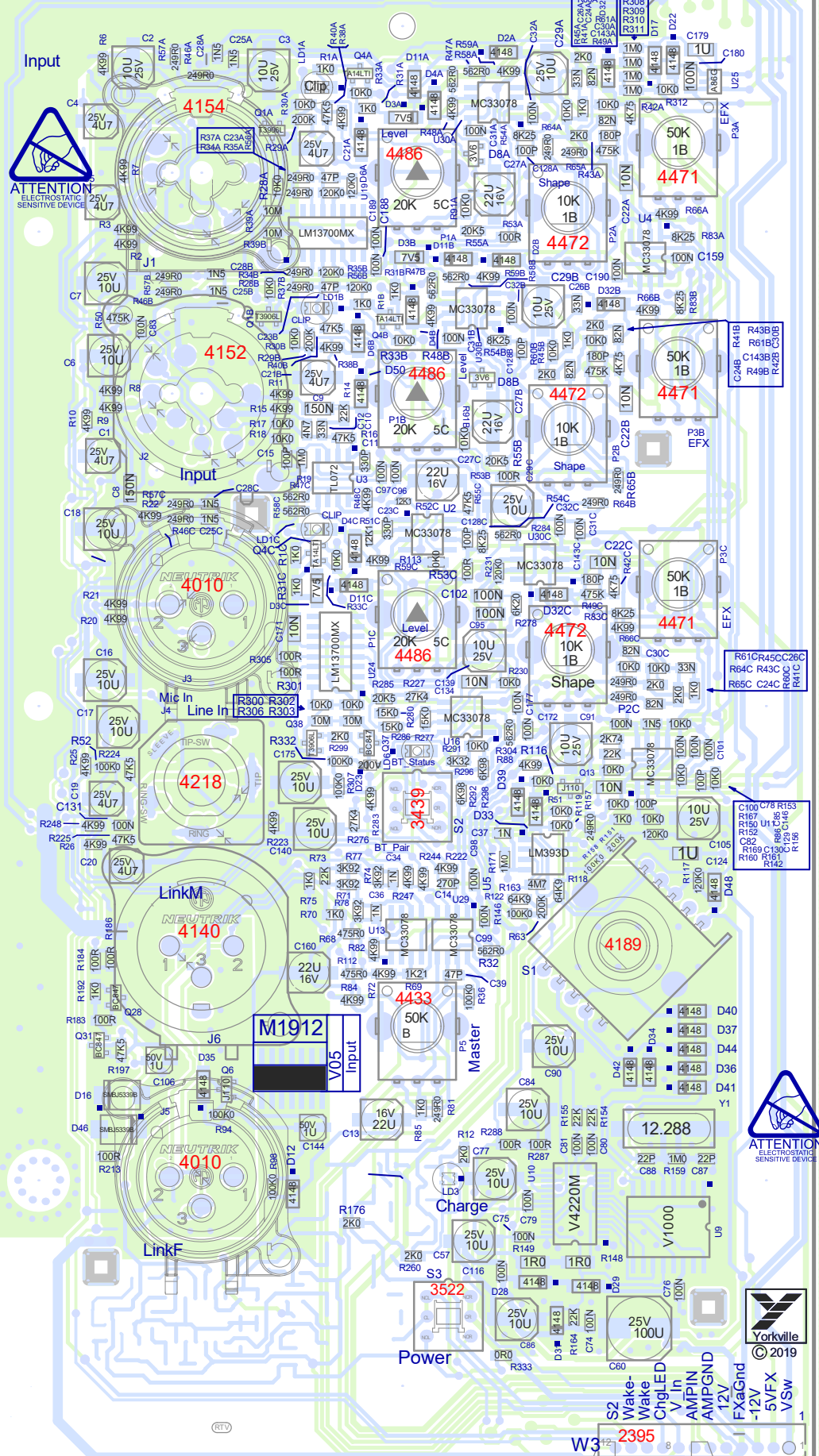


M1913
Amp V05

© 2019



ATTENTION
ELECTROSTATIC
SENSITIVE DEVICE



ATTENTION
ELECTROSTATIC
SENSITIVE DEVICE



© 2019

Blanksi e - 234.00mmX219.00mm 9212X8622

S ore

S2 Wake-
Wake
CngLED
V IN
AMPIN
AMPNGND
12V
FXAGnd
-12V
5VFX
VSW

PCB ASSEMBLY DOCUMENTATION

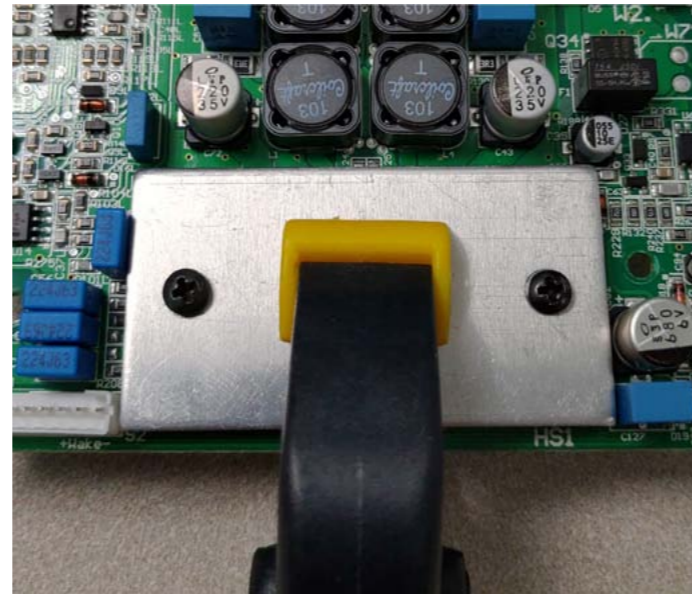
SPECIAL PRODUCTION NOTES

1 Place 2 YS#8741s resting on the edge of the PCB and secure it to YS#8793 nuts. Tighten to 4 in-lbs.

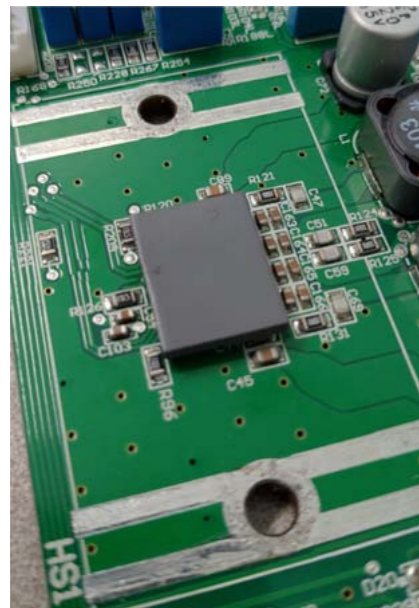


Heatsink Assembly PCB Finishing

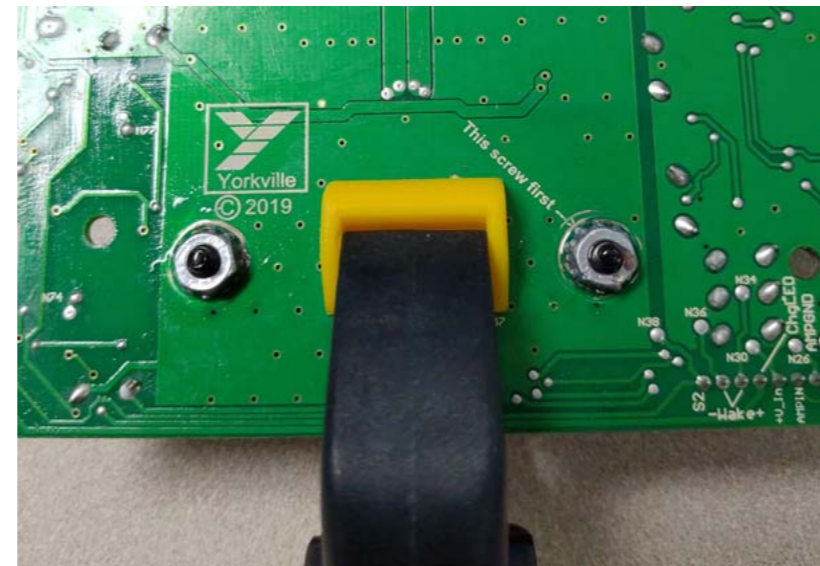
3 Place heatsink assembly from step 1 onto the PCB and onto the gap pad. Hold in place from the center of the PCB.



2 Add YS#4236 gap pad to U8. Hand the gap pad edges on your reference pads entered on U8.



4 Finish the PCB and apply Perma bond MM15. Thread one screw into each side. Secure heatsink to PCB with YS#8701 nuts. Tighten to 4 in-lbs.

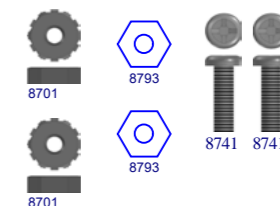


The input section needs to be air tight. All vias and part holes must be filled with solder.

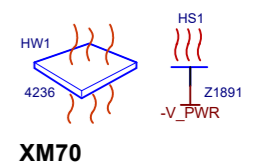
Apply Perma bond to the end of each screw.

PCB HARDWARE

NUTS AND BOLTS



HEATSINK AND GAP PAD



XM70

DESIGN HISTORY AND INFORMATION

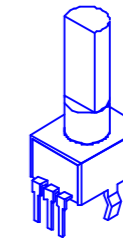
CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	06-AUG-2020	V01	.	RELEASED FOR PRODUCTION
2	18-SEP-2020	V02	9594	Multiple revisions per schematics in PC9594 pd document
3	18-NOV-2020	V03	9597	Replaced 5V regulators Q18 and Q19 7918 with 8208
4	19-NOV-2020	V03	9614	Backed o 5V copper fill and trace rom mtg screw in bluetooth section.
5	12-JAN-2021	V04	9619	Rerouted battery status and S3 connections according to PC9619.
6	13-Sept-2021	V04	9669	Updated heatsink to in-house version, updated heatsink assembly instructions.
7	07-APR-2022	V05	9713	Moved C170B away rom mounting hole
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

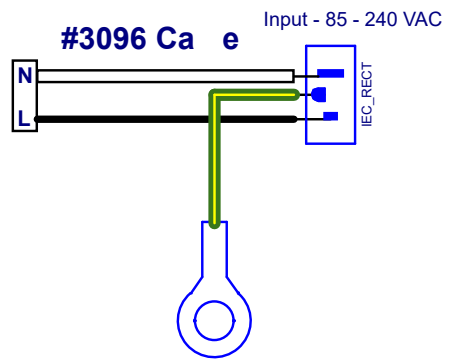
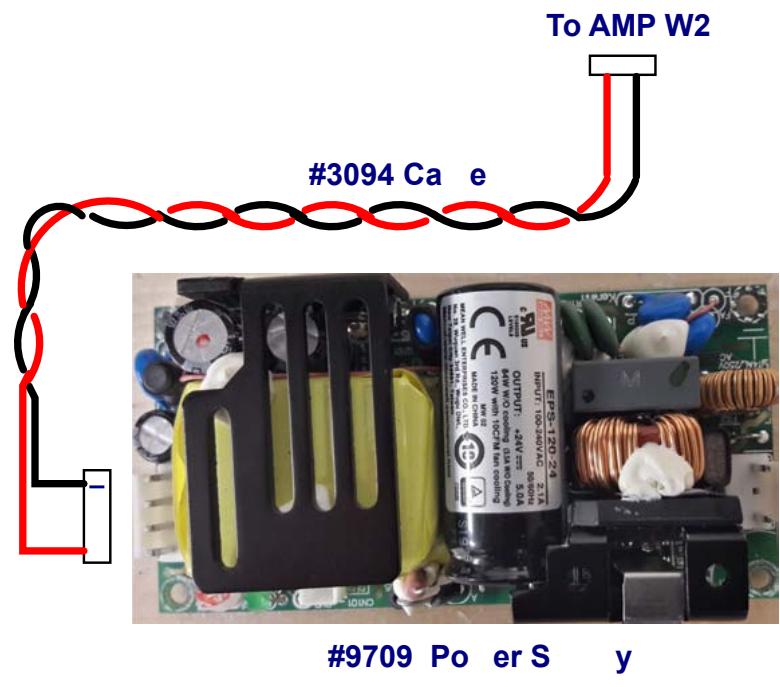
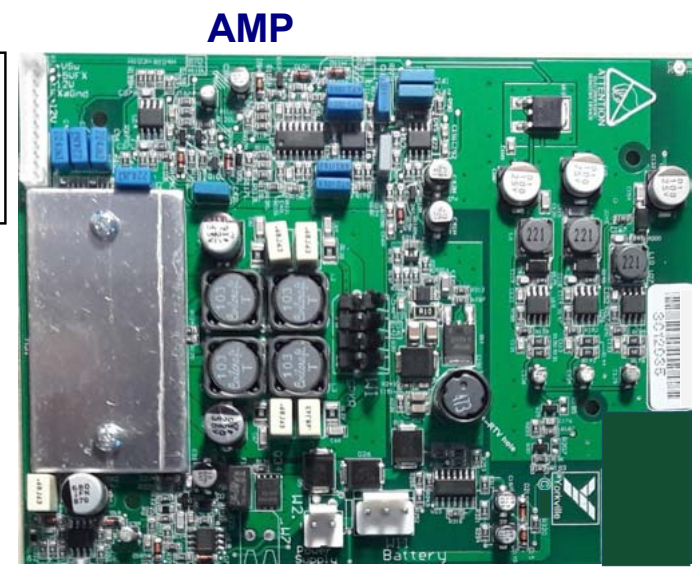
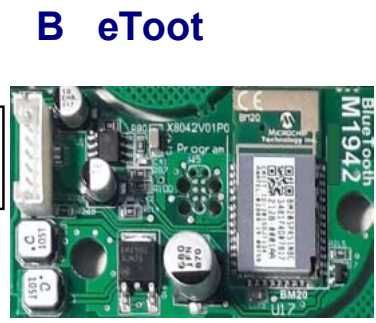
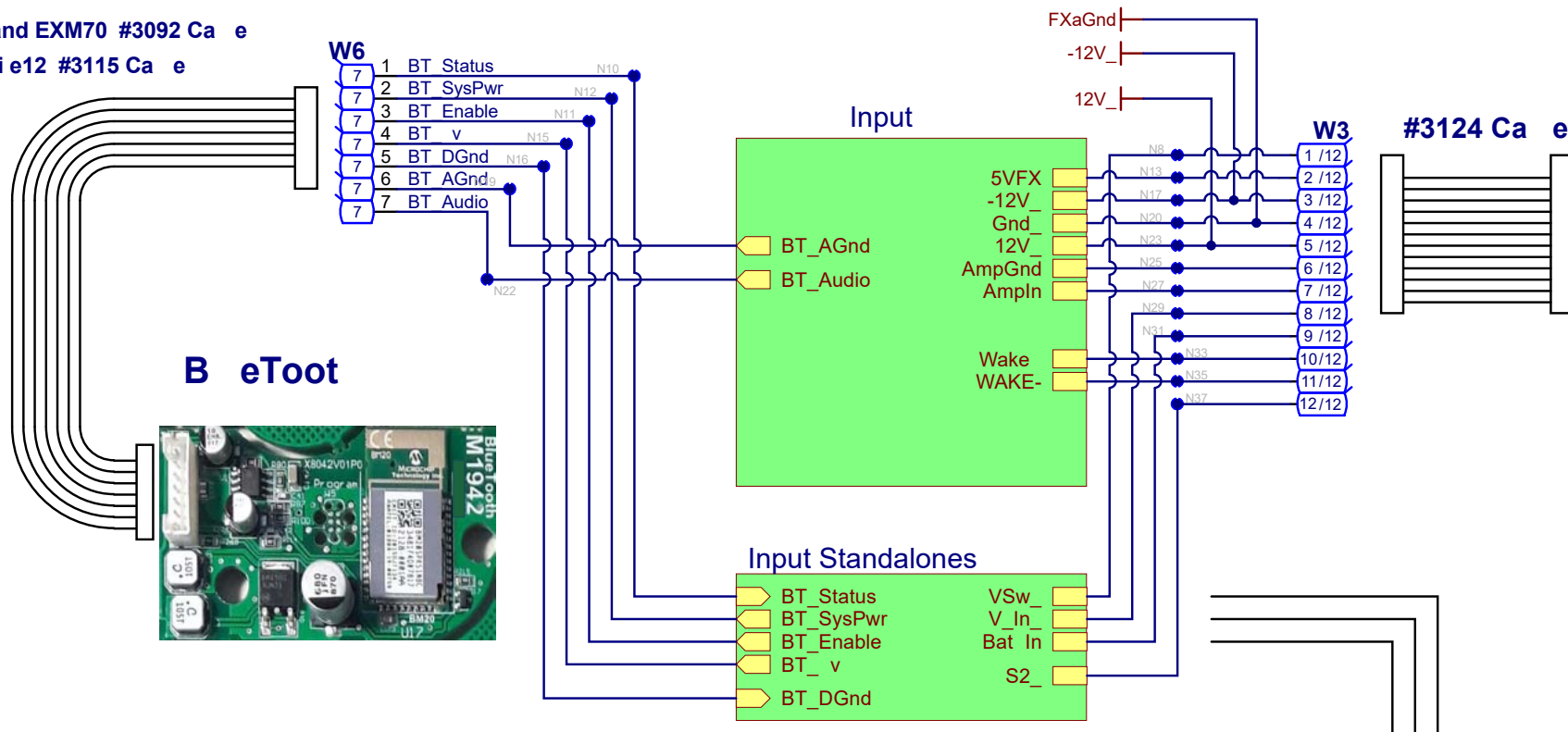
POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P1A	LEVEL	4486	P32	.
P1B	LEVEL	4486	P32	.
P1C	LEVEL	4486	P32	.
P2A	Shape	4472	P32	.
P2B	Shape	4472	P32	.
P2C	Shape	4472	P32	.
P3A	FX Send	4471	P32	.
P3B	FX Send	4471	P32	.
P3C	FX Send	4471	P32	.
P4	Master	4433	P32	.
S1	FX Select	4189	.	.
S2	BT_Pair	3499	.	.
S3	Power	3522	.	.



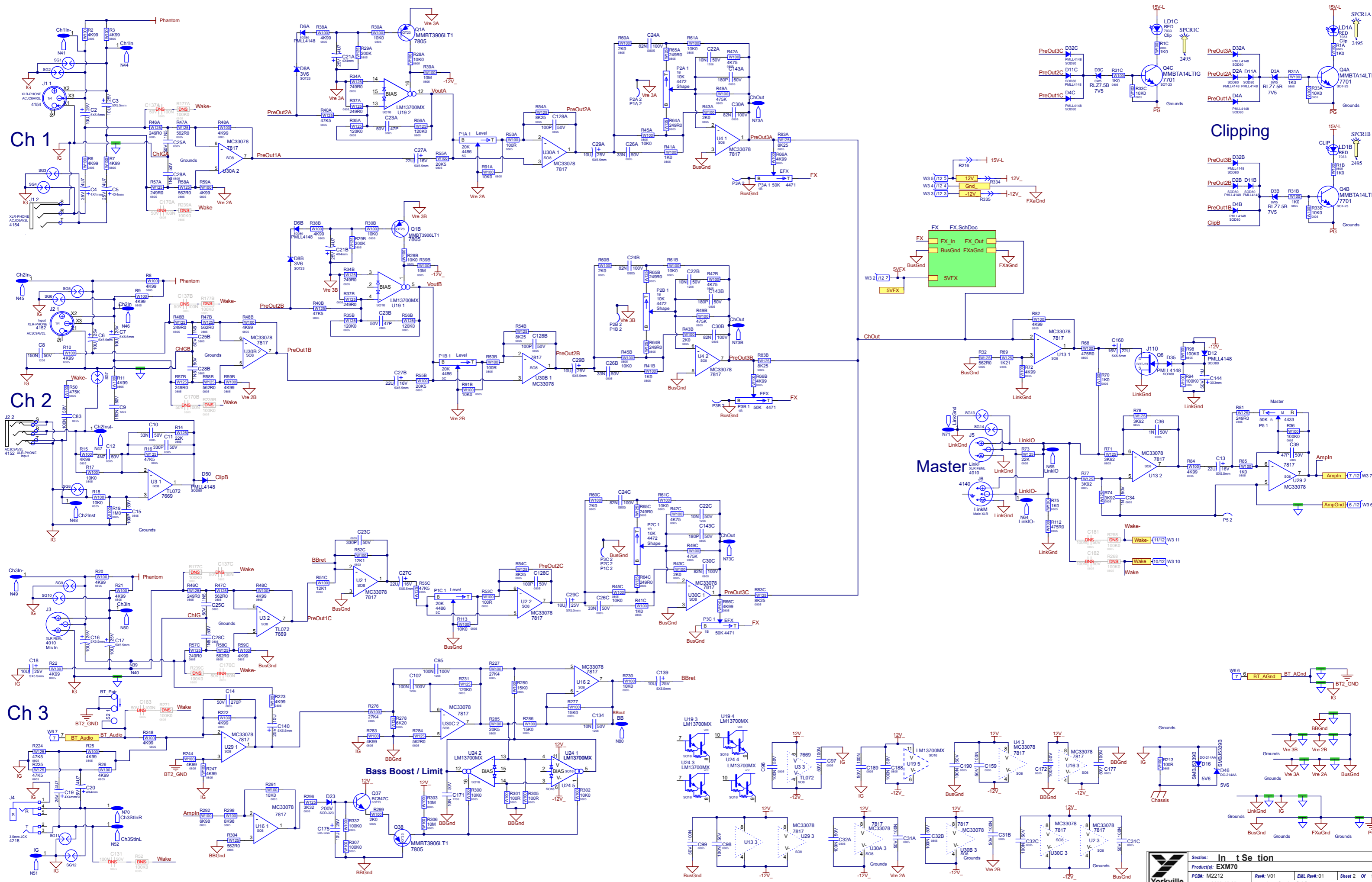
"STYLE_P32"

EXMmo i e and EXM70 #3092 Ca e
EXMmo i e12 #3115 Ca e



	#5099 Battery
EXMmo i e	<input checked="" type="checkbox"/>
EXMmo i e12	<input checked="" type="checkbox"/>
EXM70	<input type="checkbox"/>





Ch 1

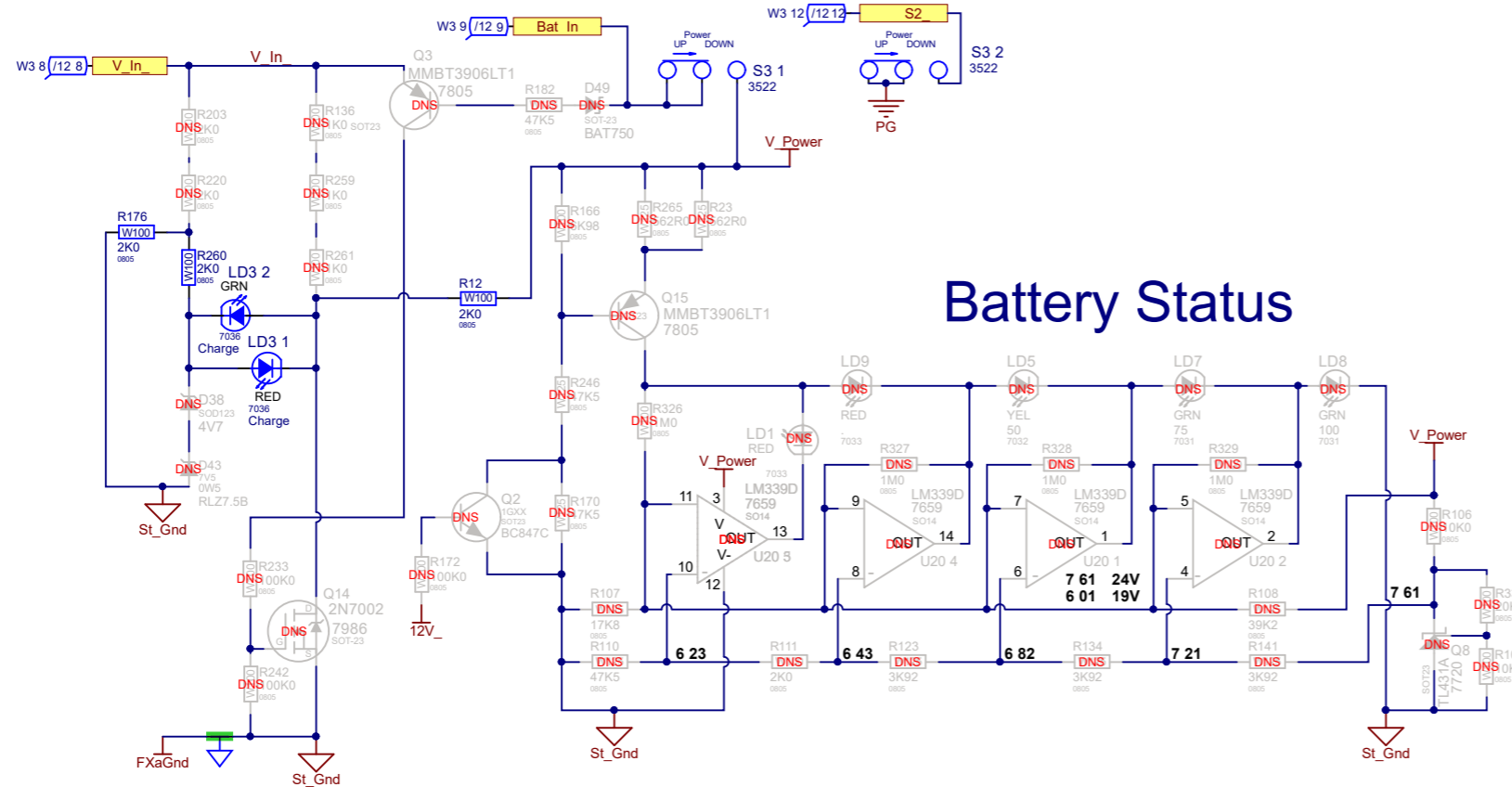
Ch 2

Ch 3

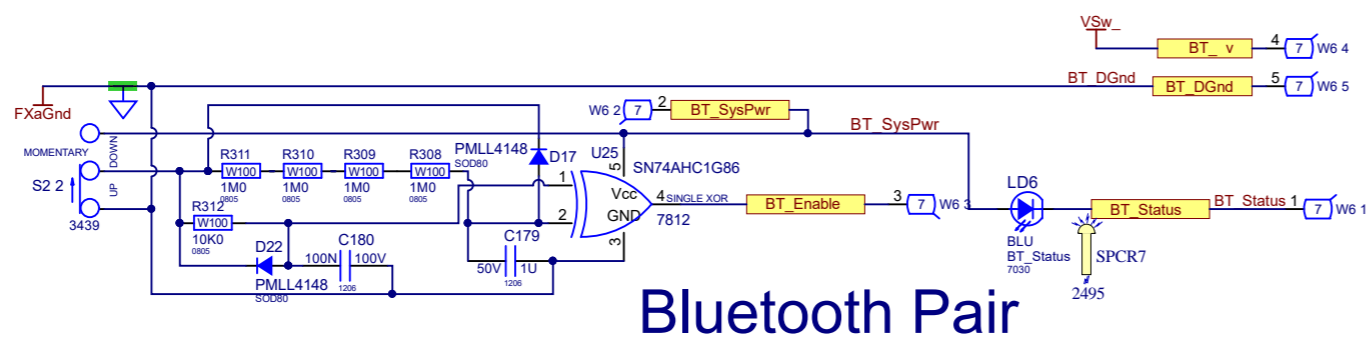
Clipping

Master

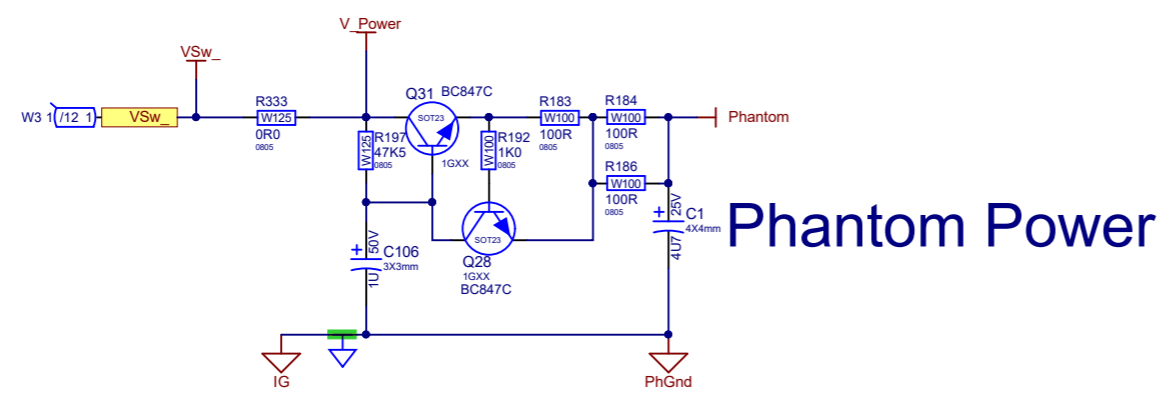
Bass Boost / Limit



Battery Status

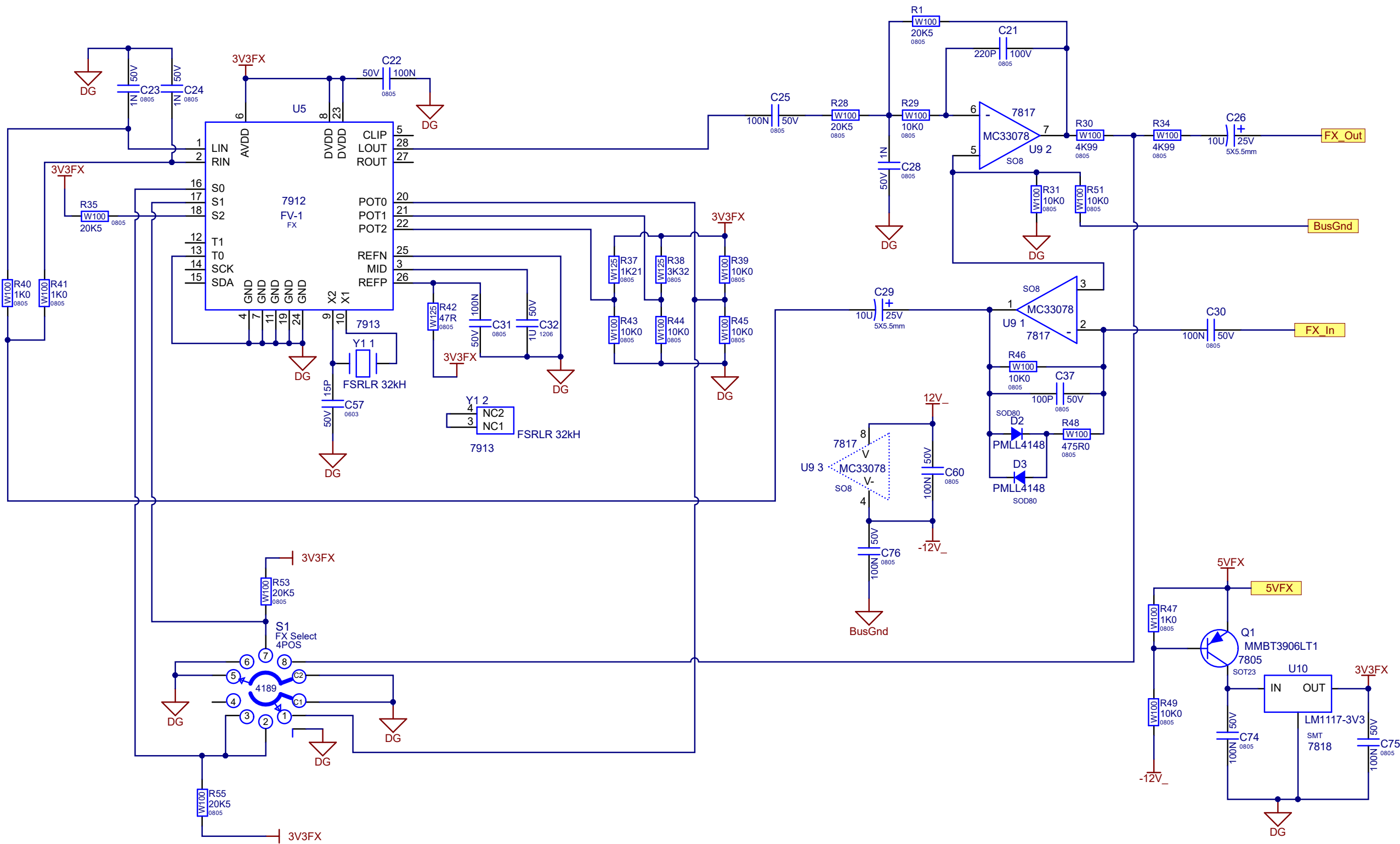


Bluetooth Pair

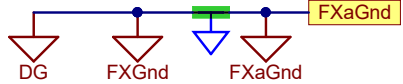


Phantom Power





Effects selection		
S1 Pos	Code	Effect
1	0010	Room3b-Reverb, Room (1.8 sec.)
2	0110	Room2a-Reverb Chapel (3 sec.)
3	1010	Delay7-Echo
4	N/A	Off



DESIGN HISTORY AND INFORMATION

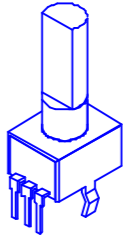
CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	01-DEC-2023	V01	.	Release or 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

POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P1A	LEVEL	4486	P32	.
P1B	LEVEL	4486	P32	.
P1C	LEVEL	4486	P32	.
P2A	Shape	4472	P32	.
P2B	Shape	4472	P32	.
P2C	Shape	4472	P32	.
P3A	FX Send	4471	P32	.
P3B	FX Send	4471	P32	.
P3C	FX Send	4471	P32	.
P4	Master	4433	P32	.
S1	FX Select	4189	.	.
S2	BT_Pair	3499	.	.
S3	Power	3522	.	.



"STYLE_P32"

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

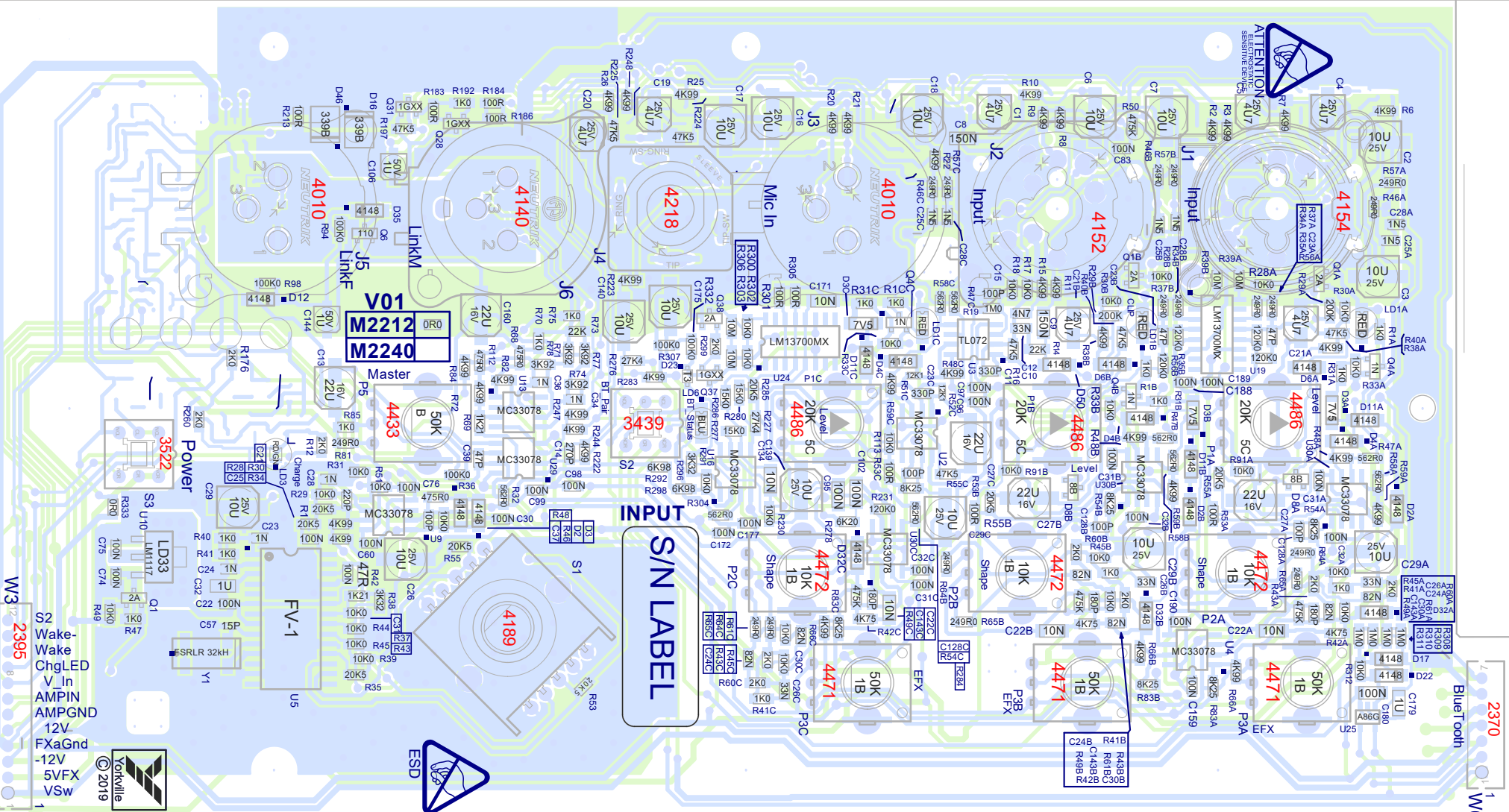


W3 12 2395

S2 Wake-Wake
 ChgLED
 V_{In}
 AMPIN
 AMPGND
 12V
 FxAGnd
 -12V
 5VFX
 VSw



M2212 EXM70 V01



Bluetooth

2370

1 W6

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

1. This board uses a wave soldering rig. Ensure all connectors and switches are flush to the surface of the board before placing soldering rig.

After Wave

1. Inspect bottom of board to ensure all vias are filled with solder.
2. Separate panel where applicable using pin cutter and separation breaking pliers.



DESIGN HISTORY AND INFORMATION

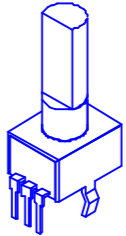
CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	01-DEC-2023	V01	.	Release or 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

POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P1A	LEVEL	4486	P32	.
P1B	LEVEL	4486	P32	.
P1C	LEVEL	4486	P32	.
P2A	Shape	4472	P32	.
P2B	Shape	4472	P32	.
P2C	Shape	4472	P32	.
P3A	FX Send	4471	P32	.
P3B	FX Send	4471	P32	.
P3C	FX Send	4471	P32	.
P4	Master	4433	P32	.
S1	FX Select	4189	.	.
S2	BT_Pair	3499	.	.
S3	Power	3522	.	.



"STYLE_P32"

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



EXMmobile and EXM70 #3092 Cable
EXMmobile12 #3115 Cable

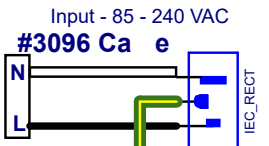


Input

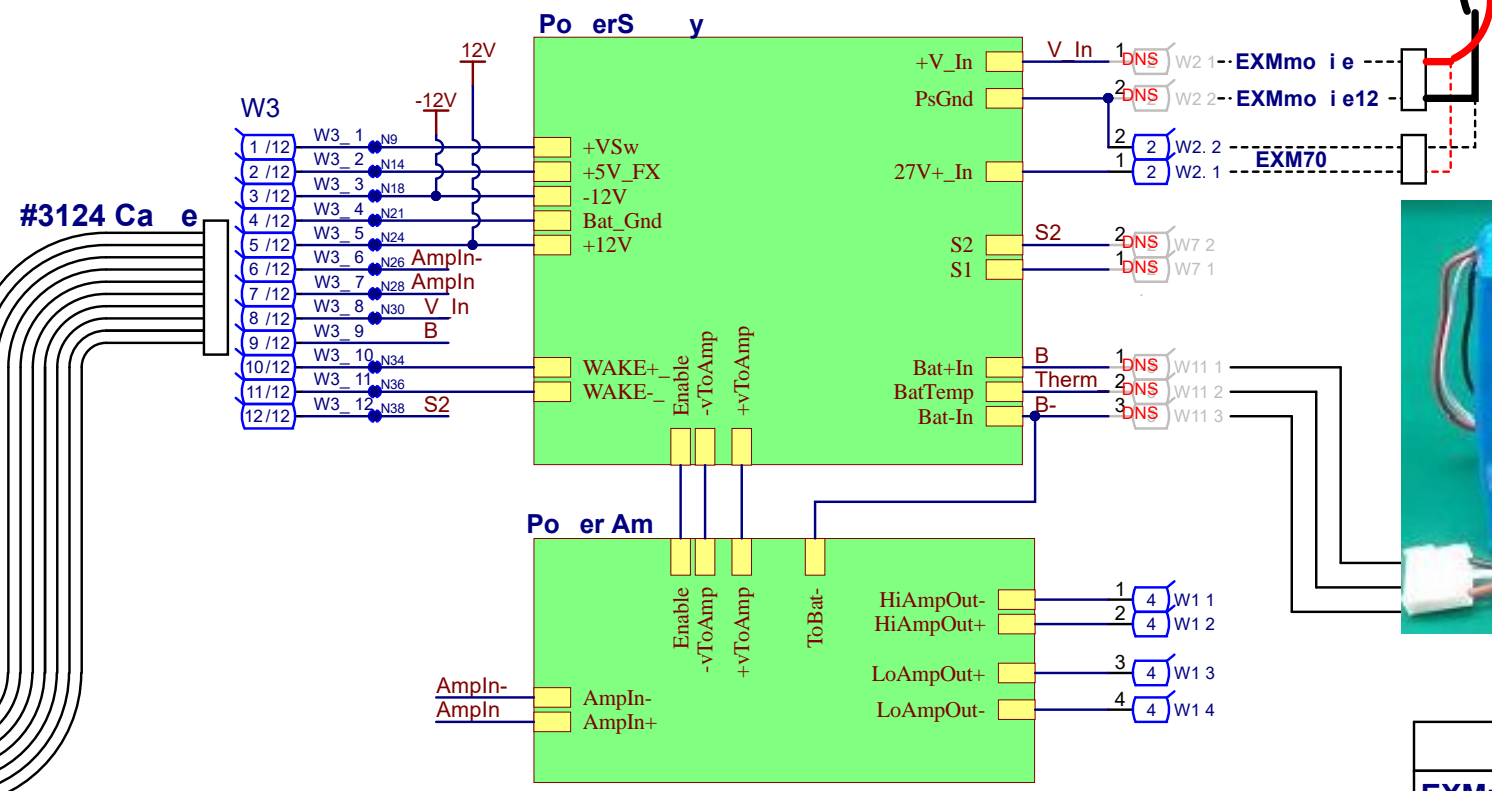
Bluetooth



#9709 Power Supply



#3094 Cable



#3124 Cable

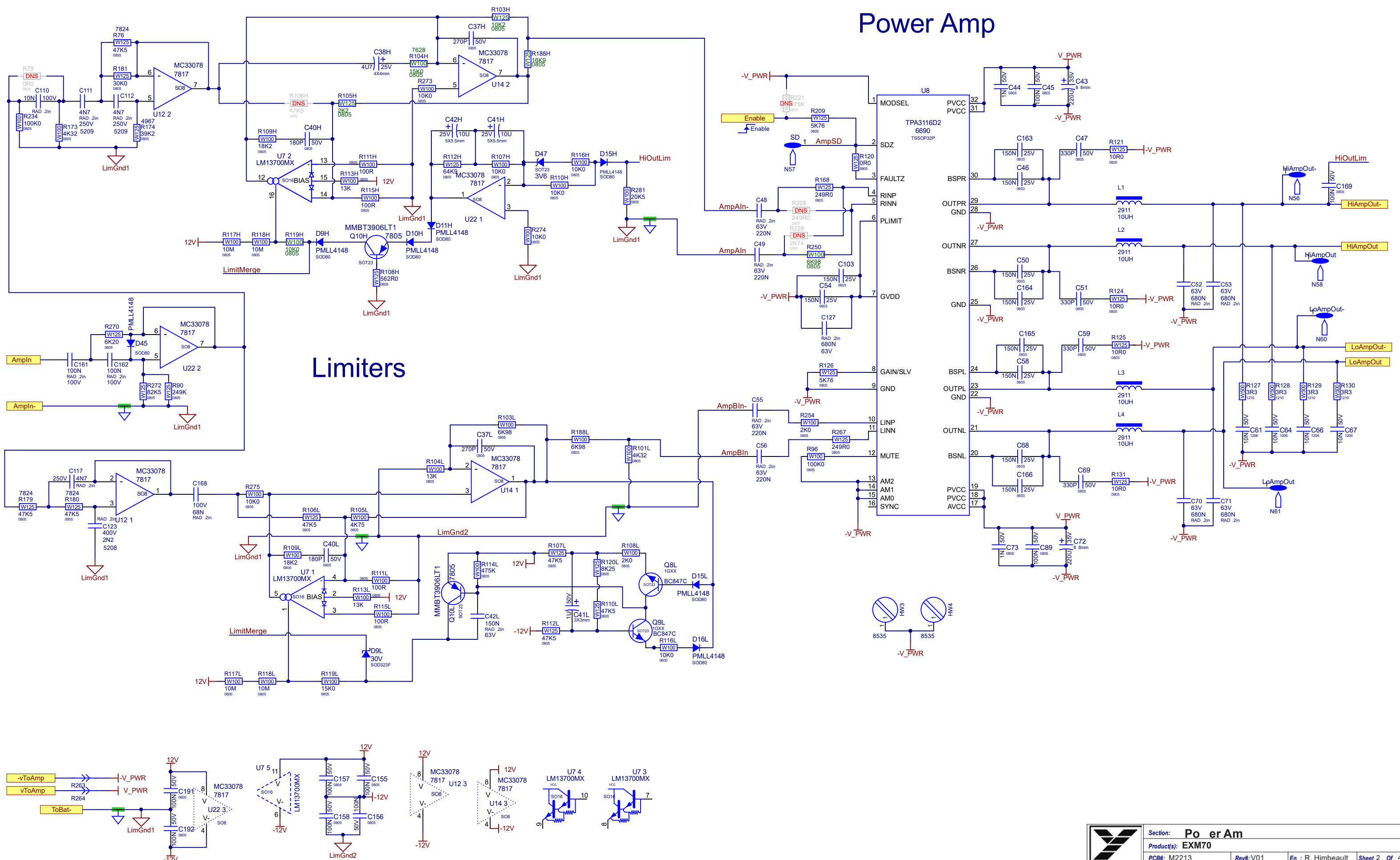
#5099 Battery



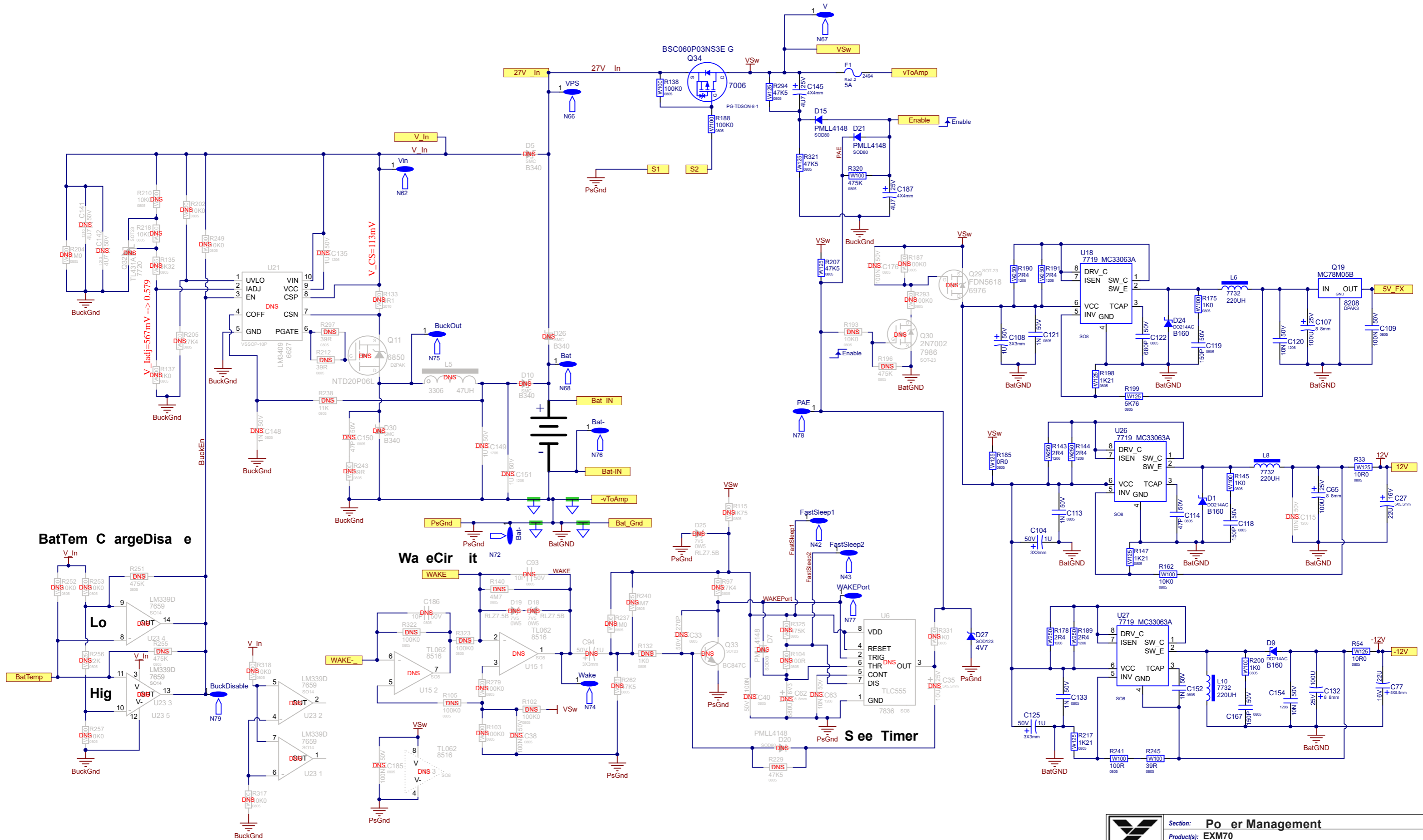
	#5099 Battery
EXMmobile	<input checked="" type="checkbox"/>
EXMmobile12	<input checked="" type="checkbox"/>
EXM70	NA



Power Amp



Limiters



BatTem C argeDisa e

Wa eCir it

S ee Timer

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	01-DEC-2023	V01	.	Release or 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

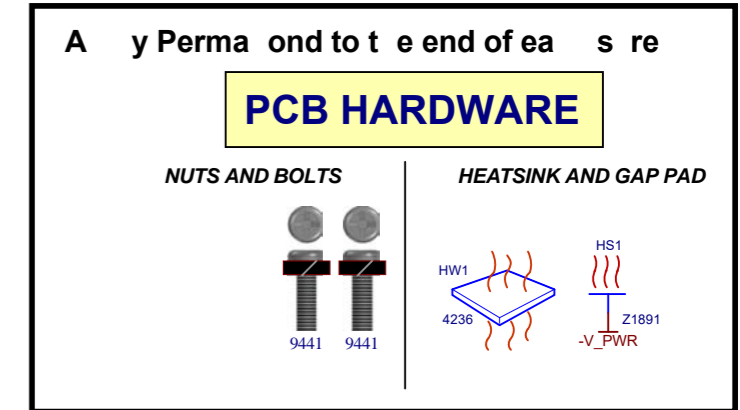
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1
2
3
4
5
6
7
8
9
10
11
12
13

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

SPECIAL PRODUCTION NOTES

PCB ASSEMBLY DOCUMENTATION

1. Follow instructions below to attach heatsink Z1891 to board.
2. Add RTV to the underside of L5 where indicated.
3. Inspect bottom of board to ensure vias are filled with solder.
4. Separate panel with pin cutter and/or appropriate break out tool.



Heatsink Assembly PCB Finishing

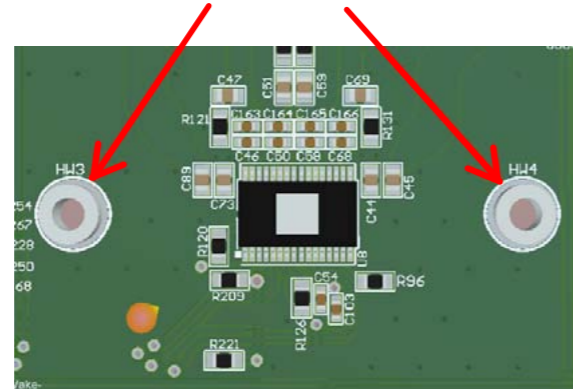
IMPORTANT BEFORE WAVE SOLDER

1_ADD Soldermask dots to the two threaded spacers to bottom side of pcb.

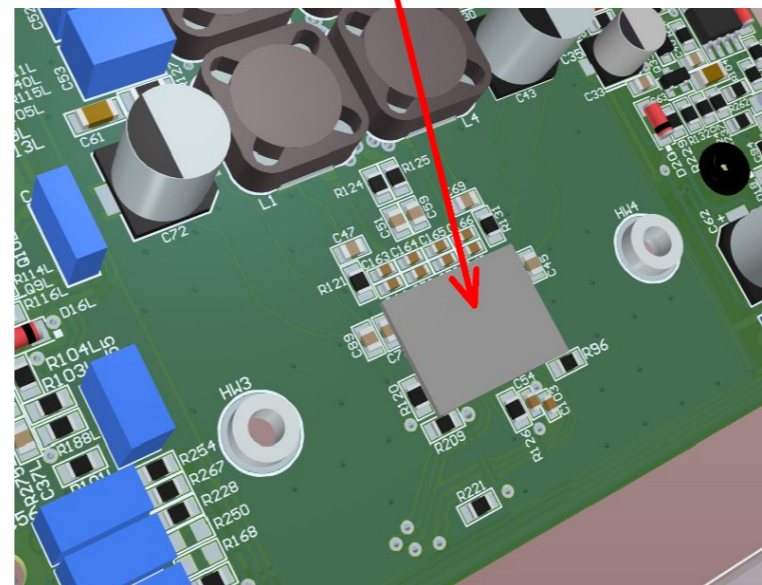


AFTER WAVE SOLDER

1_Remove the Kapton tape both sides of the board from the spacers.



2_Remove YS 4236 gappad from sheet and apply sticky side down to the top of U8. Handle the gappad edges only, ensure the pad is centered over U8.



3_Place HS1 YS Z1891 Heatsink directly on top of U8. Use legend outline as a guide.



4_Secure heatsink HS1 with two 9441 screws. Tighten to 8 Inch lbs and make sure heatsink is sitting flat to spacers.



Section: **Assembly Documentation**

Product(s): **EXM70**

PCB#: M2213

Rev#: V01

En : R. Himbeaut

Sheet 2 Of 3

Modified: 2023-12-06

File: Assembly.SchDoc

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	01-DEC-2023	V01	.	Release or 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

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