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STOMPWATCH

Printed in Canada

APPLIED RESEARCH AND TECHNOLOGY

SERVICE MANUAL

RM5

SMT Disclaimer

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

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

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

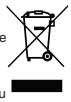
Yorkville Sound will repair and replace defective SMT components to ensure proper quality assurance and installation is maintained.

Manual-Service-ART-RM5-00-1v0 • August 20, 2018

IMPORTANT SAFETY INSTRUCTIONS

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

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



IEC 60417-5041

CAUTION • AVIS

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

CAUTION: HOT SURFACE
ATTENTION: SURFACE CHAUDE

S2125A

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

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

FOLLOW ALL INSTRUCTIONS

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

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
THIS DEVICE IS FOR INDOOR USE ONLY!

SUIVEZ TOUTES LES INSTRUCTIONS

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

AVIS: AFIN DE REDUIRE LES RISQUE DE CHOC ELECTRIQUE, N'ENLEVEZ PAS LE COUVERT (OU LE PANNEAU ARRIERE)
NE CONTIENT AUCUNE PIECE REPARABLE PAR L'UTILISATEUR.
CONSULTEZ UN TECHNICIEN QUALIFIE POUR L'ENTRETIENT
CE PRODUIT EST POUR L'USAGE À L'INTÉREUR SEULEMENT

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

Clean only with dry cloth.

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

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

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

Power Sources

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

Hazards

Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious personal injury and serious damage to the product. Use only with cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer. Only use attachments/accessories specified by the manufacturer
Note: Prolonged use of headphones at a high volume may cause health damage on your ears.

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

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

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

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

Power Cord

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

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

Service

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

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

Nettoyez seulement avec le tissu sec.

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

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

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

Alimentation

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

Risque

Ne pas placer cet appareil sur un chariot, un support, un trépied ou une table instables. L'appareil pourrait tomber et blesser quelqu'un ou subir des dommages importants. Utiliser seulement un chariot, un support, un trépied ou une table recommandés par le fabricant ou vendus avec le produit. Suivre les instructions du fabricant pour installer l'appareil et utiliser les accessoires recommandés par le fabricant. Utilisez seulement les attachements/accessoires indiqués par le fabricant
Note: L'utilisation prolongée des écouteurs à un volume élevé peut avoir des conséquences néfastes sur la santé sur vos oreilles. .

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

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

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

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

Cordon d'Alimentation

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

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

Service

Consultez un technicien qualifié pour l'entretien de votre appareil. L'entretien est nécessaire quand l'appareil a été endommagé de quelque façon que se soit. Par exemple si le cordon d'alimentation ou la prise du cordon sont endommagés, si il y a eu du liquide qui a été renversé à l'intérieur ou des objets sont tombés dans l'appareil, si l'appareil a été exposé à la pluie ou à l'humidité, si il ne fonctionne pas normalement, ou a été échappé.

IMPORTANT SAFETY INSTRUCTIONS (UL60065)

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

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

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

WARNING:

- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.
- To completely disconnect this apparatus from the ac mains, disconnect the power supply cord plug from the ac receptacle.
- The mains plug of the power supply cord or appliance coupler shall remain readily accessible.

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

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

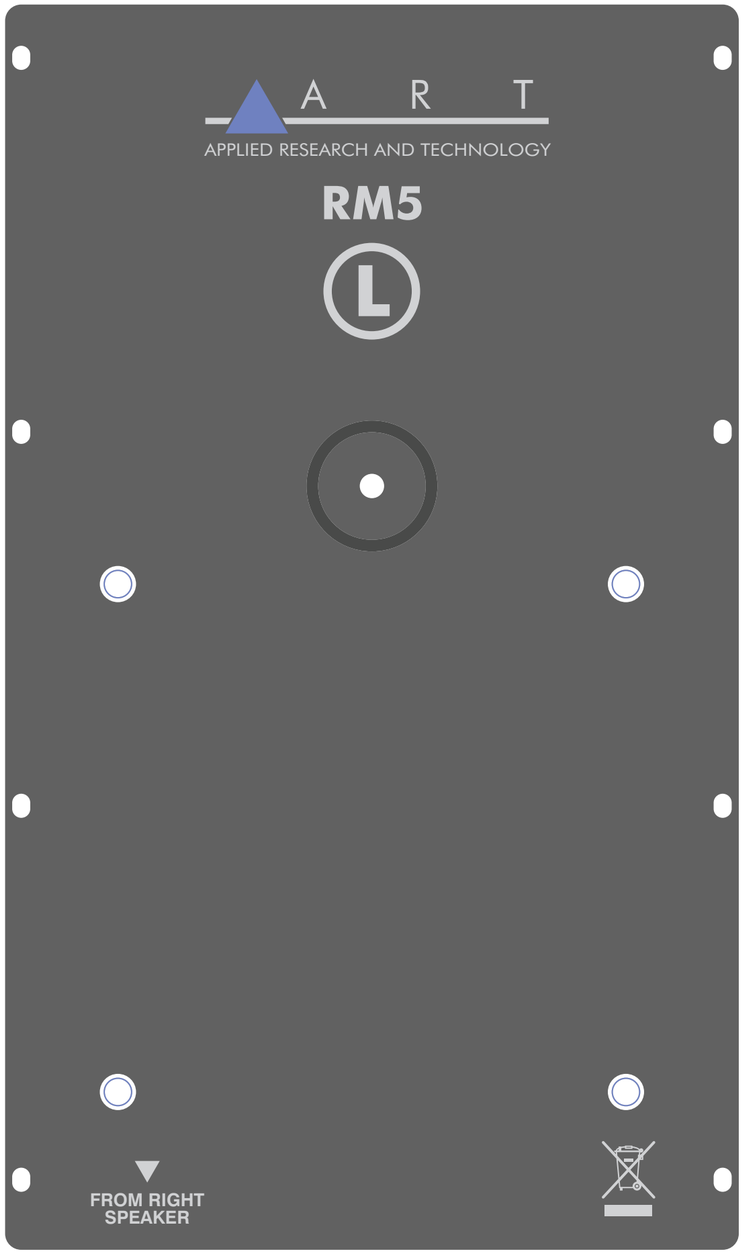
1. Lisez ces instructions.
2. Conservez ces instructions.
3. Respecter tous les avertissements.
4. Suivez toutes les instructions.
5. N'utilisez pas l'appareil près de l'eau.
6. Nettoyer uniquement avec chiffon sec.
7. Ne bloquez pas les ouvertures de ventilation. Installer en suivant les instructions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

AVERTISSEMENT:

- Pour réduire les risques d'incendie ou de choc électrique, ne pas exposer cet appareil à la pluie ou à l'humidité et ne placez pas d'objets contenant des liquides, tels que des vases, sur l'appareil.
- Pour isoler totalement cet appareil de l'alimentation secteur, débranchez totalement son cordon d'alimentation du réceptacle CA.
- La prise du cordon d'alimentation ou du prolongateur, si vous en utilisez un comme dispositif de débranchement, doit rester facilement accessible

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

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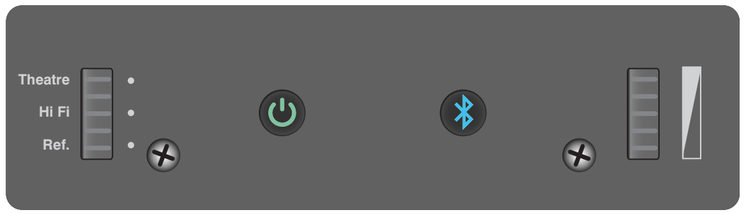
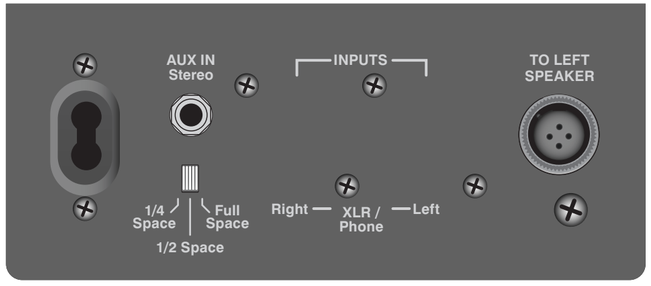
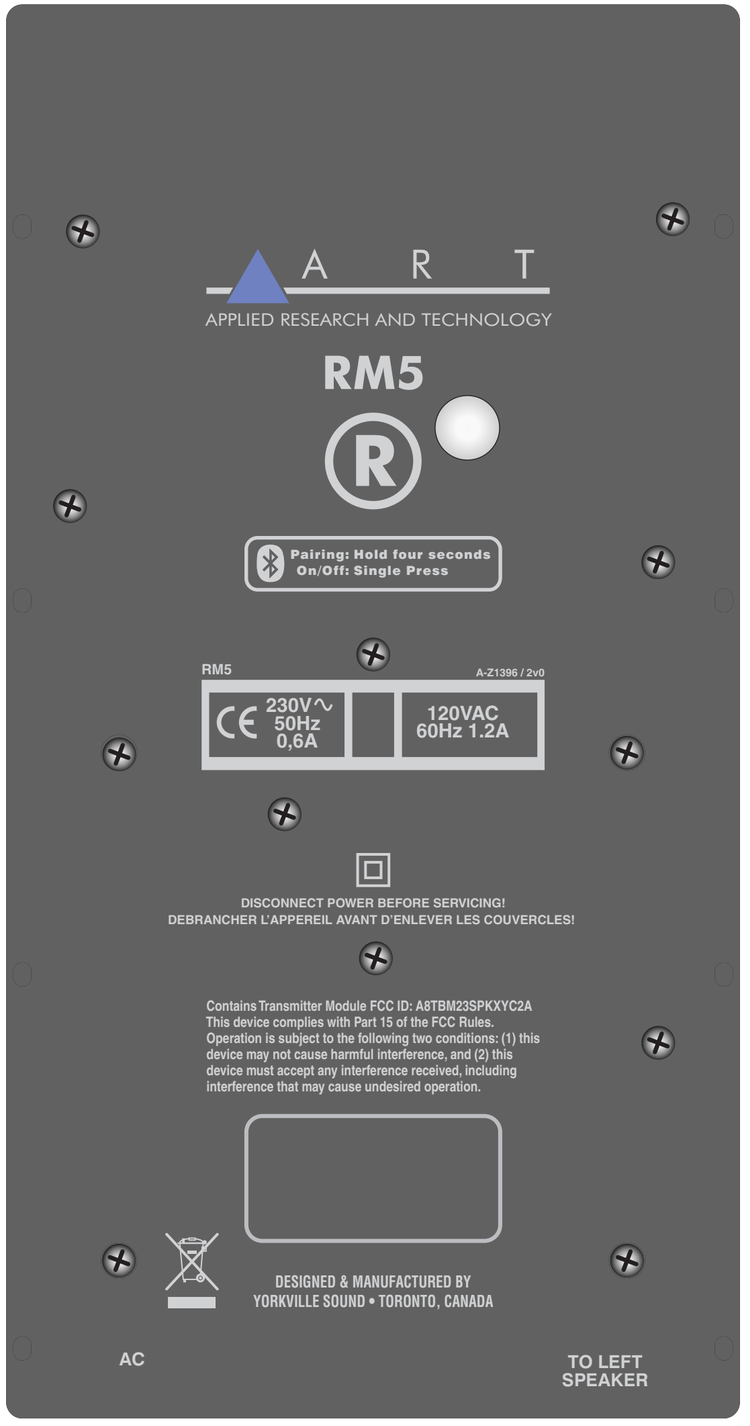
FROM RIGHT SPEAKER


Theatre
Hi Fi
Ref.


AUX IN
Stereo
INPUTS
TO LEFT SPEAKER
1/4 Space
Full Space
1/2 Space
Right
XLR / Phone
Left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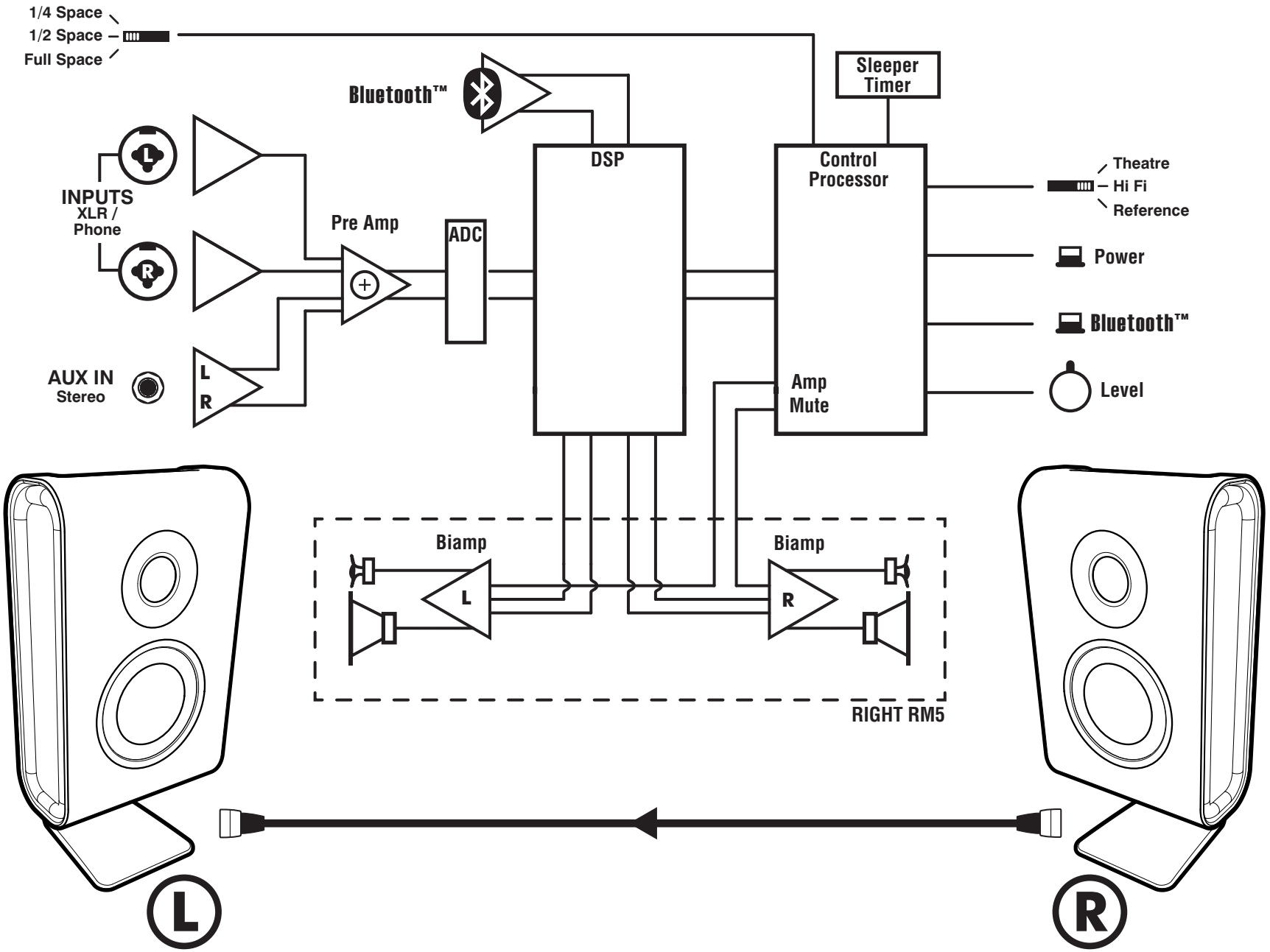
RM5
R
Pairing: Hold four seconds
On/Off: Single Press
RM5
A-Z1396 / 2v0
230V~ 50Hz 0,6A
120VAC 60Hz 1.2A
DISCONNECT POWER BEFORE SERVICING!
DEBRANCHER L'APPEREIL AVANT D'ENLEVER LES COUVERCLES!
Contains Transmitter Module FCC ID: A8TBM23SPKXYC2A
This device complies with Part 15 of the FCC Rules.
Operation 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.
DESIGNED & MANUFACTURED BY
YORKVILLE SOUND • TORONTO, CANADA
AC
TO LEFT SPEAKER

SPECIFICATIONS

System Type	Active 2-Way Stereo
Program Power (Watts)	300 W
Max SPL (dB)	109
Frequency Response (Hz +/- 3dB)	45-22,000
Crossover Frequency (Hz)	2200
HF Driver(s)	High Resolution Ring Radiator Center Plug to Improve Off Axis Response
HF Program Power (Watts)	25W (x 2)
LF Driver(s)	5-inch High X-Max Composite woofer
LF Program Power (Watts)	125W (x 2)
LF Protection	Thermal / Peak (X-max)
Inputs	2 x XLR & ¼-inch TRS Balanced Combi-Jacks (Left/Right), Stereo 1/8-inch TRS Jack / Bluetooth™ Wireless Streaming
Mode Controls	Reference, HiFi, and Theatre Room Compensation 1/4 Space, 1/2 Space and Full Space
Level Controls	Master Level
Cabinet Material	Aluminum Unibody Design
Power Supply	USA – 105 to 125 VAC /60HZ Export units are configured for country of destination
Bass Principal	Dual Opposing Passive Radiator
Dimensions (H, W, D)	12.4-inch x 7.6-inch x 3.6-inch each speaker 31mm x 19mm x 9mm each speaker
Weight	20lbs / 9kg (Pair)

ART maintains a policy of constant product improvement. ART reserves the right to make changes in design, or make additions to, or improvements upon, this product without any obligation to install same on products previously manufactured. Therefore, specifications are subject to change without notice.


1/4 Space
1/2 Space
Full Space
Bluetooth™
Sleeper Timer
DSP
Control Processor
Theatre
Hi Fi
Reference
INPUTS
XLR / Phone
Pre Amp
ADC
Power
Bluetooth™
AUX IN
Stereo
L
R
Amp Mute
Level
Biamp
Biamp
L
R
RIGHT RM5
L
R

ART RM5 PARTS Parts List 8/20/2018

YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.
6451	__4N7 250V 20%CAP BLK 'Y' 10MM AC	1	8256	FERRITE BEAD 600R @100MHZ 0805 SMT	3			
5635	1000U 35V 20%CAP BLK RADIAL ELECT	1	8318	ADAU1401 28/56 DSP 2AD4DA SMT IC	2			
5863	6800U 25V 20%CAP BLK 16X40MM EL	4	7918	LM1117 REGULATOR 5V0 SMT SOT223	2			
4453	_50K B LIN 12MM 4PIN HORZ DT P40	1	8285	BM23 BLUETOOTH DIGITAL SMT MOD	1			
9102	RM5 MONITOR FOOT PAD	3	7661	LM393D DUAL COMPARATOR SMT SO-8	2			
3465	WIRE TO BOARD CRIMP 16-18 AWG TIN	4	7817	33078 DUAL OPAMP SMT SO-8	4			
4186	3.5MM JCK PCB MT VERT ST	1	7817	33078 DUAL OPAMP SMT SO-8	4			
4194	2X2 3 MM MICRO MATE-N-LOK VRT	1	7883	26 PIN 25SQ 100 PIN SIL SMT	1			
4090	1/4IN &XLR PCB MT VERT COMBO NCJ6-V	2	5998	BL/RD LED 2V1 20MA 0805 SMT	5			
2370	7 CIR PH-HEADER 2MM	2	6692	11.2896MHZ CRYSTAL 4-PIN SMT	1			
3121	04 20AWG 06 R-B,Y-B MATENLOK-BARREL	1	4512	_10K 25% ACP KAP TRIM POT SMT T&R	4			
3118	04 18AWG 08 R-B,Y-B TWPR FSTON-156	1	7882	W250 0R 1206 SMT RES	2			
3119	04 18AWG 12 R-B,Y-B TWPR FSTON-BARL	1	7998	W750 0R 1% 2010 SMT JMP	5			
3115	PATCH 07 22AWG 3.0 PH	1	7868	1W00 0R047 5% 2512 SMT RES	12			
3126	BARREL CONNECTOR KIT FOR RM5	1	4615	W250 4R7 5% 1206 SMT RES	1			
2337	4 CIR XH-HEADER 0.098IN	2	7821	W125 10R0 1% 0805 SMT RES	14			
2327	6 CIR XH-HEADER 0.098IN	2	8131	W500 10R 5% 1210 SMT RES	8			
2381	09 CIR XH-HEADER RA 0.098IN	2	7923	W333 33R 5% 1210 SMT RES	10			
3065	PATCH 04 22AWG 08.0 XH	1	7854	W125 47R 5% 0805 SMT RES	20			
3117	PATCH 09 22AWG 13.0 XH	1	7854	W125 47R 5% 0805 SMT RES	16			
3044	PATCH 06 22AWG 07.0 XH FLAT	1	7624	W100 100R 1% 0805 SMT RES	4			
8554	SQUARE PROFILE O RING .5"ID 70 DURO	4	7624	W100 100R 1% 0805 SMT RES	11			
2493	FUSE T3.15A 300V RAD SLOW T&R	1	7709	W100 301R 1% 0805 SMT RES	4			
WEDGEKIT	WEDGE SPACER KIT FOR RM SERIES	1	8213	W250 330R 5% 1206 SMT RES	16			
7582	_4 OHM .75" PEERLESS RING RADIATOR	2	7856	W125 470R 5% 0805 SMT RES	4			
3810	4" NYLON CABLE TIE	3	7673	W100 475R 1% 0805 SMT RES	2			
4210	RECEPTACLE 2 PRONG IEC	1	7621	W100 1K0 1% 0805 SMT RES	4			
RM5KIT	RM5 UNIBODY/PASSIVES/STAND PAIR	1	7621	W100 1K0 1% 0805 SMT RES	4			
6535	HEADER SIL (FEMALE) 26 SOCKET	1	7859	W125 2K2 5% 0805 SMT RES	4			
3538	24 PIN BREAKAWAY LOCK .156	0.167	7859	W125 2K2 5% 0805 SMT RES	2			
4162	2 PIN POWER PIN HEADER MALE POLZED	1	7633	W100 2K74 1% 0805 SMT RES	4			
4163	5 PIN POWER PIN HEADER MALE POLZED	1	7678	W125 3K92 1% 0805 SMT RES	4			
9089	KNOB RM SERIES BUTTON IO	5	7795	W063 4K02 1% 0603 SMT RES	8			
3472	8' 18AWG IEC 320 2 PRONG LINE CORD	1	7642	W100 4K75 1% 0805 SMT RES	6			
9985	4-40 NYLON INSERT LOK NUT	2	7679	W100 4K99 1% 0805 SMT RES	13			
8788	1/4-20 KEPS NUT ZINC	2	8192	W125 5K76 1% 0805 SMT RES	6			
4155	RELAY 1A 10AMP DC05 040MA PC-S HC	1	7680	W100 6K98 1% 0805 SMT RES	1			
9145	.100" 48X96 UTILITY ALUMINUM	0.667	7625	W100 10K0 1% 0805 SMT RES	18			
9001	4-40X5/16 PAN PH MS ZN W/STAR WASHR	8	8257	W125 11K0 1% 0805 SMT RES	2			
8729	#4 X 3/8 FLAT QUAD TYPE A/B TBZ	4	7628	W100 15K0 1% 0805 SMT RES	10			
9975	#4 X 1/2 PAN PHILIP TYPE A/B TBZ	26	7823	W100 18K2 1% 0805 SMT RES	2			
8808	4-40X3/4 FLAT PHIL MS B.O.& WA	3	7900	W125 30K 0.5% 0805 SMT RES	8			
8831	6-32X1/4 PAN PHIL TAPTITE ZINC CLEA	8	8135	W125 47K 5% 0805 SMT RES	8			
8713	6-32X5/8 FL QD MS ZINC	4	5088	W125 49K9 1% 0805 SMT RES	4			
8779	1/4-20X2X1/2 CARRIAGE BOLT ZINC	1	4963	W125 64K9 1% 0805 SMT RES	3			
9093	#6 X 3/8 PAN PHILIP PLASTITE TBZ	2	8222	W100 1K02 1% 0603 SMT RES	7			
7730	__2.2UH COIL SMT	1	8233	W100 19K6 1% 0603 SMT RES	4			
2910	120.0UH COIL SR4018T 1R6 SMT	1	7866	W125 1M 5% 0805 SMT RES	2			
8143	_27P 50V 5%CAP 0805 SMT NPO	2	7834	_10K 5% THERMISTOR NTC 0603 SMT	1			
7748	_47P 100V 5%CAP 0805 SMT NPO	2	7837	MMBT5401 PNP SOT-23 SMT	5			
7813	_47P 50V 5%CAP 0805 SMT NPO	1	8022	MMBTA64LT1G PNP DARL SOT-23 SMT	20			
7927	100P 50V 10%CAP 0805 SMT NPO	2	7806	MMBF4391LT1 NCH JFET SOT-23 SMT T&R	4			
8272	220P 100V 10%CAP 0805 SMT X7R	7	7840	IRF530NS NCH MFET D2PAK SMT TS	4			
7602	330P 50V 5%CAP 0805 SMT NPO	2	8002	TEST POINT MINIATURE SMT	8			
7871	470P 50V 5%CAP 0603 SMT NPO	6	3752	1/4 SNAP IN SPACER RICHCO	4			
7693	__1N 50V 5%CAP 0805 SMT NPO	14	2335	#4X500MIL NYLON STANDOFF NUT	3			
8277	__1N8 50V 5%CAP 0805 SMT NPO	4	9079	4-40X7/16 ALUM HEX SPACER	1			
7694	__3N3 25V 5%CAP 0805 SMT NPO	1	8505	4-40X1/2 ALUM HEX SPACER	1			
7799	__5N6 50V 5%CAP 0805 SMT C0G	6	3858	#4X3/4 PLASTIC HEX SPACER	2			
7737	_10N 50V 10%CAP 0805 SMT X7R	1	8681	4-40 X .940" ALUMINUM HEX SPACER	1			
8176	_47N 100V 10%CAP 1206 SMT X7R	4	2380	10-32X3/8 BLND PEM THRD SPCR BZ	4			
5979	100N 50V 5%CAP 0805 SMT X7R	4	7581	5.25" 8R 160WPGM WOOFER CUS DUSTCAP	2			
7767	100N 16V 10%CAP 0603 SMT X7R	26	9044	0.500XOD1.5XID0.397 WASHER NATURAL	1			
7601	220N 50V 10%CAP 1206 SMT X7R	1	8852	#6 INTERNAL TOOTH LOCKWASHER	8			
7769	__1U 50V 20%CAP 4.3X3.9 SMT ELC	7	8947	1.250ODX1/4ID FENDER WASHER ZINC CL	1			
7879	__1U 50V 20%CAP 3.3MM SMT ELE	2	6548	2P3T SLID SW PCMT V	1			
7886	__4U7 25V 20%CAP 4X5.5 SMT ELC	1	4200	SP3T ROTA SW PCMT H RS1201	1			
7780	_10U 16V 20%CAP SMT ELC	8	3439	DPDT MINI PC VERT MOMENTARY	1			
7916	_10U 25V 20%CAP 5X5.4 SMT EL	10	3522	DPDT MINI PC VERT SNP ALT	1			
8140	_15U 35V 10%CAP 6032 SMT TNT	1	3958	BLK 18AWG 36STND WIRE DOU/INS	1.25			
8139	_22U 25V 20%CAP 1210 SMT X7R	4	1254	1VA 16V XFMR 36X31X25MM 115/230	1			
7880	_47U 35V 20%CAP 6.3MM SMT ELE	2	CH1345	XFMR:RM5	1			
8141	100U 10V 20%CAP 3528 SMT TNT	2	8425	1357 2MM X .29" 150 FEET WITH ADHES	17.25			
8510	220U 16V 20%CAP 8X6.5 SMT ELE	8						
7893	MBRA340T3 40V 3A SHTKY 403D SMT	25						
7984	BAS21L 250V 200MA SOT23 SMT	20						
7700	5237B 8V2 0W2 SOT-23 SMT ZEN	2						
7830	MM3Z12VT1G 12V0 0W2 5% SMT ZEN	8						
7831	MM3Z15VT1G 15V0 0W2 5% SMT ZEN	6						
7832	MM3Z18VT1G 18V0 0W2 5% SMT ZEN	1						

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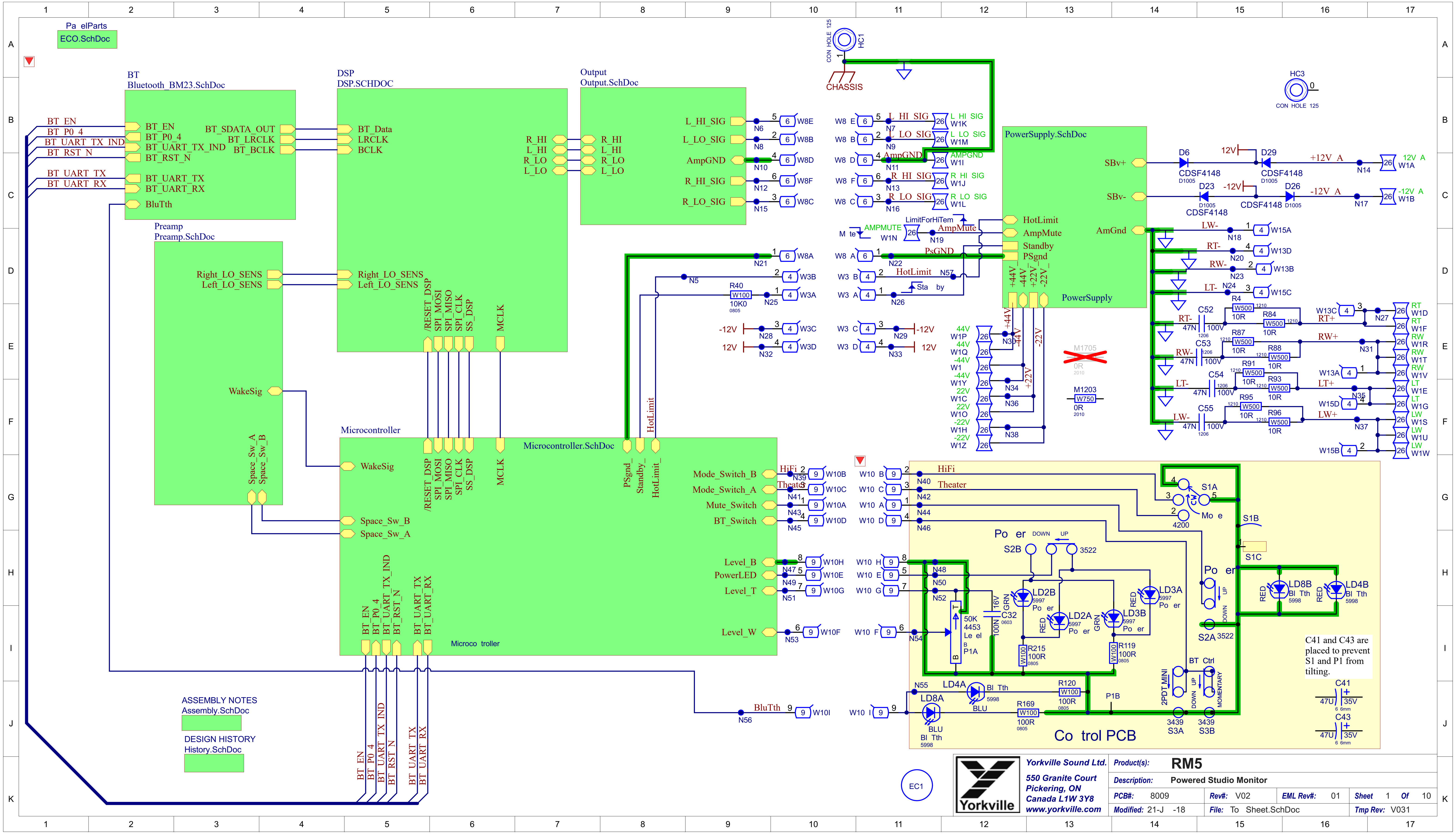
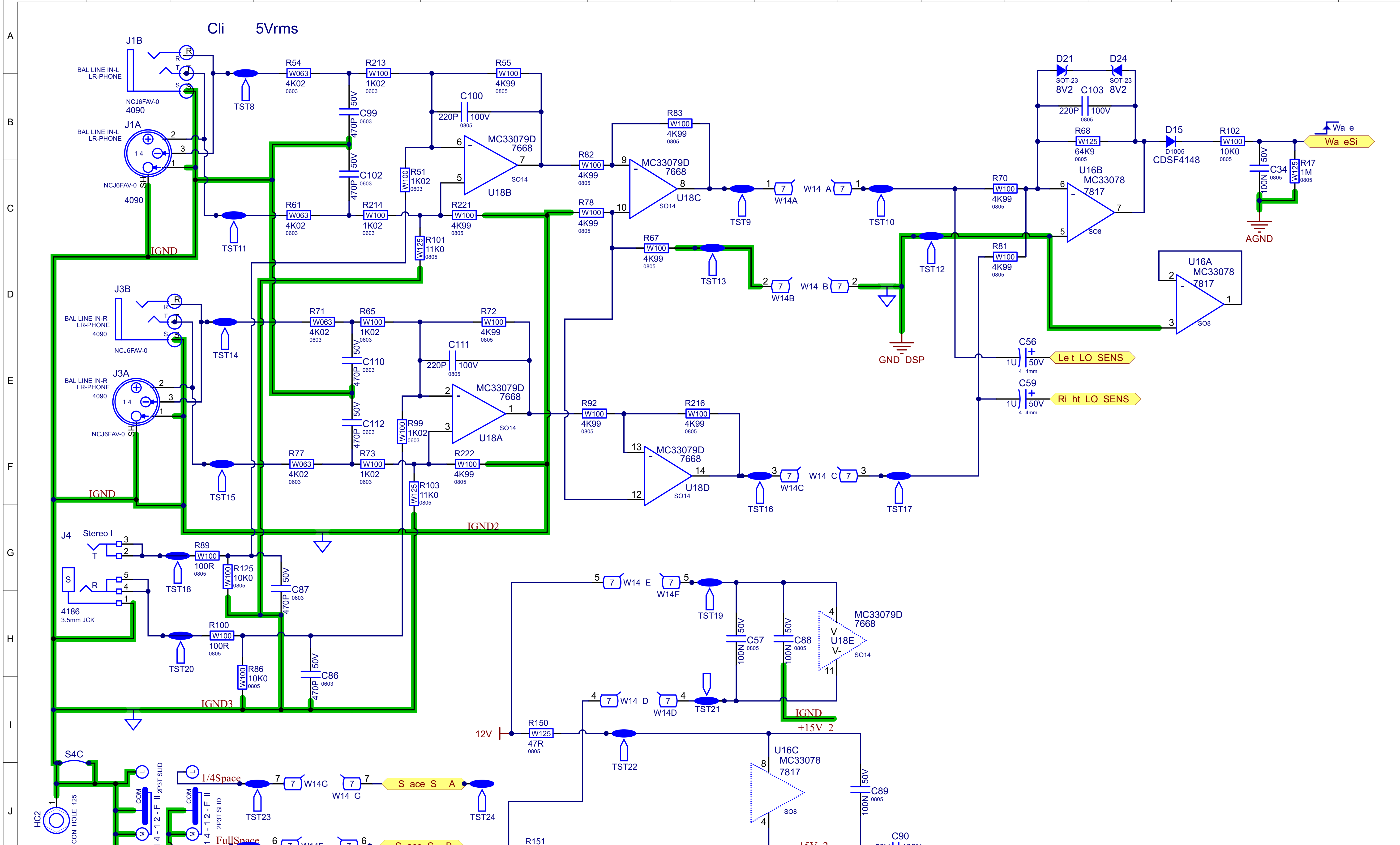
REF	YS #	Description
C1A		5N6 50V 5%CAP 0805 SMT C0G
C1B		5N6 50V 5%CAP 0805 SMT C0G
C2A		5N6 50V 5%CAP 0805 SMT C0G
C2B		5N6 50V 5%CAP 0805 SMT C0G
C3A		1N 50V 5%CAP 0805 SMT NPO
C3B		1N 50V 5%CAP 0805 SMT NPO
C4A		10U 16V 20%CAP SMT ELC
C4B		10U 16V 20%CAP SMT ELC
C5		1U 50V 20%CAP 3.3MM SMT ELE
C6A		1N 50V 5%CAP 0805 SMT NPO
C6B		1N 50V 5%CAP 0805 SMT NPO
C7		1U 50V 20%CAP 3.3MM SMT ELE
C38A		220U 16V 20%CAP 8X6.5 SMT ELE
C38B		220U 16V 20%CAP 8X6.5 SMT ELE
C49A		100N 50V 5%CAP 0805 SMT X7R
C49B		100N 50V 5%CAP 0805 SMT X7R
C50A		1N 50V 5%CAP 0805 SMT NPO
C50B		1N 50V 5%CAP 0805 SMT NPO
C51A		220U 16V 20%CAP 8X6.5 SMT ELE
C51B		220U 16V 20%CAP 8X6.5 SMT ELE
C52A		1N 50V 5%CAP 0805 SMT NPO
C52B		1N 50V 5%CAP 0805 SMT NPO
C53A		27P 50V 5%CAP 0805 SMT NPO
C53B		27P 50V 5%CAP 0805 SMT NPO
C59A		5N6 50V 5%CAP 0805 SMT C0G
C59B		5N6 50V 5%CAP 0805 SMT C0G
C60A		10U 16V 20%CAP SMT ELC
C60B		10U 16V 20%CAP SMT ELC
C62A		100P 50V 10%CAP 0805 SMT NPO
C62B		100P 50V 10%CAP 0805 SMT NPO
C64A		10U 16V 20%CAP SMT ELC
C64B		10U 16V 20%CAP SMT ELC
C65A		1N 50V 5%CAP 0805 SMT NPO
C65B		1N 50V 5%CAP 0805 SMT NPO
C66A		220U 16V 20%CAP 8X6.5 SMT ELE
C66B		220U 16V 20%CAP 8X6.5 SMT ELE
C67A		100N 50V 5%CAP 0805 SMT X7R
C67B		100N 50V 5%CAP 0805 SMT X7R
C68A		1N 50V 5%CAP 0805 SMT NPO
C68B		1N 50V 5%CAP 0805 SMT NPO
C69A		47P 100V 5%CAP 0805 SMT NPO
C69B		47P 100V 5%CAP 0805 SMT NPO
C70A		1N 50V 5%CAP 0805 SMT NPO
C70B		1N 50V 5%CAP 0805 SMT NPO
C71A		10U 16V 20%CAP SMT ELC
C71B		10U 16V 20%CAP SMT ELC
C72A		220U 16V 20%CAP 8X6.5 SMT ELE
C72B		220U 16V 20%CAP 8X6.5 SMT ELE
C95A		330P 50V 5%CAP 0805 SMT NPO
C95B		330P 50V 5%CAP 0805 SMT NPO
D1		MM3Z12VT1G 12V0 0W2 5% SMT ZEN
D2		MM3Z12VT1G 12V0 0W2 5% SMT ZEN
D24A		BAS21L 250V 200MA SOT23 SMT
D24B		BAS21L 250V 200MA SOT23 SMT
D30A		CDSF4148 75V 0A15 1005 SMT
D30B		CDSF4148 75V 0A15 1005 SMT
D32A		BAS21L 250V 200MA SOT23 SMT
D32B		BAS21L 250V 200MA SOT23 SMT
D33A		BAS21L 250V 200MA SOT23 SMT
D33B		BAS21L 250V 200MA SOT23 SMT
D34A		BAS21L 250V 200MA SOT23 SMT
D34B		BAS21L 250V 200MA SOT23 SMT
D35A		MURA240T3 400V 2A DIO 403D SMT
D35B		MURA240T3 400V 2A DIO 403D SMT
D37A		MURA240T3 400V 2A DIO 403D SMT
D37B		MURA240T3 400V 2A DIO 403D SMT
D38A		CDSF4148 75V 0A15 1005 SMT
D38B		CDSF4148 75V 0A15 1005 SMT
D41A		BAS21L 250V 200MA SOT23 SMT
D41B		BAS21L 250V 200MA SOT23 SMT
D42A		BAS21L 250V 200MA SOT23 SMT
D42B		BAS21L 250V 200MA SOT23 SMT
P2A		10K 25% ACP KAP TRIM POT SMT T&R
P2B		10K 25% ACP KAP TRIM POT SMT T&R
P3A		10K 25% ACP KAP TRIM POT SMT T&R
P3B		10K 25% ACP KAP TRIM POT SMT T&R
Q1		MJD122 NPN DARL DPAK3 SMT
Q2		MMBT3904 NPN SOT-23 SMT
Q3		MMBT5401 PNP SOT-23 SMT
Q4		MJD127 PNP DARL DPAK3 SMT
Q21A		MJD122 NPN DARL DPAK3 SMT
Q21B		MJD122 NPN DARL DPAK3 SMT
Q23A		MMBTA64LT1G PNP DARL SOT-23 SMT
Q23B		MMBTA64LT1G PNP DARL SOT-23 SMT
Q24A		MMBF4391LT1 NCH JFET SOT-23 SMT T&R
Q24B		MMBF4391LT1 NCH JFET SOT-23 SMT T&R
Q25A		MJD127 PNP DARL DPAK3 SMT
Q25B		MJD127 PNP DARL DPAK3 SMT
Q26A		IRF530NS NCH MFET D2PAK SMT TS
Q26B		IRF530NS NCH MFET D2PAK SMT TS
Q27A		MJD122 NPN DARL DPAK3 SMT
Q27B		MJD122 NPN DARL DPAK3 SMT
Q28A		MJD122 NPN DARL DPAK3 SMT
Q28B		MJD122 NPN DARL DPAK3 SMT
Q29A		MMBTA64LT1G PNP DARL SOT-23 SMT
Q29B		MMBTA64LT1G PNP DARL SOT-23 SMT
Q30A		MMBF4391LT1 NCH JFET SOT-23 SMT T&R
Q30B		MMBF4391LT1 NCH JFET SOT-23 SMT T&R
Q31A		MJD127 PNP DARL DPAK3 SMT
Q31B		MJD127 PNP DARL DPAK3 SMT
Q32A		MJD127 PNP DARL DPAK3 SMT
Q32B		MJD127 PNP DARL DPAK3 SMT
Q33A		IRF9530NS PCH MFET D2PAK SMT TS
Q33B		IRF9530NS PCH MFET D2PAK SMT TS
R1A		W125 47R 5% 0805 SMT RES
R1B		W125 47R 5% 0805 SMT RES
R2A		W125 47R 5% 0805 SMT RES
R2B		W125 47R 5% 0805 SMT RES
R3		W125 10R0 1% 0805 SMT RES
R4		W100 301R 1% 0805 SMT RES
R5		W100 15K0 1% 0805 SMT RES
R6A		W250 0R 1206 SMT RES
R6B		W250 0R 1206 SMT RES
R7		W125 10R0 1% 0805 SMT RES
R8		W100 301R 1% 0805 SMT RES
R9		W100 15K0 1% 0805 SMT RES
R10		W125 10R0 1% 0805 SMT RES
R11A		W125 10R0 1% 0805 SMT RES
R11B		W125 10R0 1% 0805 SMT RES
R12		W125 10R0 1% 0805 SMT RES
R13A		W125 33R 5% 0805 SMT RES
R13B		W125 33R 5% 0805 SMT RES
R45A		W125 47R 5% 0805 SMT RES
R45B		W125 47R 5% 0805 SMT RES
R46A		W250 330R 5% 1206 SMT RES
R46B		W250 330R 5% 1206 SMT RES
R47A		W250 330R 5% 1206 SMT RES
R47B		W250 330R 5% 1206 SMT RES
R48A		W125 47R 5% 0805 SMT RES
R48B		W125 47R 5% 0805 SMT RES
R64A		W100 2K74 1% 0805 SMT RES
R64B		W100 2K74 1% 0805 SMT RES
R98A		W125 10R0 1% 0805 SMT RES
R98B		W125 10R0 1% 0805 SMT RES
R99A		W333 33R 5% 1210 SMT RES
R99B		W333 33R 5% 1210 SMT RES
R102A		W125 30K 0.5% 0805 SMT RES
R102B		W125 30K 0.5% 0805 SMT RES
R114A		W100 301R 1% 0805 SMT RES
R114B		W100 301R 1% 0805 SMT RES
R115A		1W00 0R047 5% 2512 SMT RES
R115B		1W00 0R047 5% 2512 SMT RES
R116A		W125 30K 0.5% 0805 SMT RES
R116B		W125 30K 0.5% 0805 SMT RES
R118A		W125 2K2 5% 0805 SMT RES
R118B		W125 2K2 5% 0805 SMT RES
R119A		W125 5K76 1% 0805 SMT RES
R119B		W125 5K76 1% 0805 SMT RES
R141A		1W00 0R047 5% 2512 SMT RES
R141B		1W00 0R047 5% 2512 SMT RES
R143A		W125 470R 5% 0805 SMT RES
R143B		W125 470R 5% 0805 SMT RES
R144A		W125 49K9 1% 0805 SMT RES
R144B		W125 49K9 1% 0805 SMT RES
R145A		W125 10R0 1% 0805 SMT RES
R145B		W125 10R0 1% 0805 SMT RES
R146A		W333 33R 5% 1210 SMT RES
R146B		W333 33R 5% 1210 SMT RES
R153A		W100 15K0 1% 0805 SMT RES
R153B		W100 15K0 1% 0805 SMT RES
R156A		W100 15K0 1% 0805 SMT RES
R156B		W100 15K0 1% 0805 SMT RES
R162A		W125 47R 5% 0805 SMT RES
R162B		W125 47R 5% 0805 SMT RES
R166A		W100 1K0 1% 0805 SMT RES
R166B		W100 1K0 1% 0805 SMT RES
R190A		W250 330R 5% 1206 SMT RES
R190B		W250 330R 5% 1206 SMT RES
R196A		W250 330R 5% 1206 SMT RES
R196B		W250 330R 5% 1206 SMT RES
R197A		W125 47R 5% 0805 SMT RES
R197B		W125 47R 5% 0805 SMT RES
R199A		W250 330R 5% 1206 SMT RES
R199B		W250 330R 5% 1206 SMT RES
R200A		W250 330R 5% 1206 SMT RES
R200B		W250 330R 5% 1206 SMT RES
R223A		W100 100R 1% 0805 SMT RES
R223B		W100 100R 1% 0805 SMT RES
R224A		W100 2K74 1% 0805 SMT RES
R224B		W100 2K74 1% 0805 SMT RES
R225A		W125 47R 5% 0805 SMT RES
R225B		W125 47R 5% 0805 SMT RES
R226A		W125 5K76 1% 0805 SMT RES
R226B		W125 5K76 1% 0805 SMT RES
R227A		W125 30K 0.5% 0805 SMT RES
R227B		W125 30K 0.5% 0805 SMT RES
R228A		W125 10R0 1% 0805 SMT RES
R228B		W125 10R0 1% 0805 SMT RES
R229A		W333 33R 5% 1210 SMT RES
R229B		W333 33R 5% 1210 SMT RES
R230A		W125 47R 5% 0805 SMT RES
R230B		W125 47R 5% 0805 SMT RES
R231A		W125 2K2 5% 0805 SMT RES
R231B		W125 2K2 5% 0805 SMT RES
R232A		W125 5K76 1% 0805 SMT RES
R232B		W125 5K76 1% 0805 SMT RES
R233A		1W00 0R047 5% 2512 SMT RES
R233B		1W00 0R047 5% 2512 SMT RES
R234A		1W00 0R047 5% 2512 SMT RES
R234B		1W00 0R047 5% 2512 SMT RES
R235A		W125 30K 0.5% 0805 SMT RES
R235B		W125 30K 0.5% 0805 SMT RES
R236A		1W00 0R047 5% 2512 SMT RES
R236B		1W00 0R047 5% 2512 SMT RES
R237A		1W00 0R047 5% 2512 SMT RES
R237B		1W00 0R047 5% 2512 SMT RES
R240A		W100 15K0 1% 0805 SMT RES
R240B		W100 15K0 1% 0805 SMT RES
R242A		W125 49K9 1% 0805 SMT RES
R242B		W125 49K9 1% 0805 SMT RES
R243A		W125 470R 5% 0805 SMT RES
R243B		W125 470R 5% 0805 SMT RES
R244A		W125 10R0 1% 0805 SMT RES
R244B		W125 10R0 1% 0805 SMT RES
R245A		W333 33R 5% 1210 SMT RES
R245B		W333 33R 5% 1210 SMT RES
R246A		W100 1K0 1% 0805 SMT RES
R246B		W100 1K0 1% 0805 SMT RES
R247A		W125 47R 5% 0805 SMT RES
R247B		W125 47R 5% 0805 SMT RES
R248A		W100 15K0 1% 0805 SMT RES
R248B		W100 15K0 1% 0805 SMT RES
R249A		W125 47R 5% 0805 SMT RES
R249B		W125 47R 5% 0805 SMT RES
R250A		W250 330R 5% 1206 SMT RES
R250B		W250 330R 5% 1206 SMT RES
R251A		W250 330R 5% 1206 SMT RES
R251B		W250 330R 5% 1206 SMT RES
R252A		W100 100R 1% 0805 SMT RES
R252B		W100 100R 1% 0805 SMT RES
TP1A		TEST POINT MINIATURE SMT
TP1B		TEST POINT MINIATURE SMT
TP2A		TEST POINT MINIATURE SMT
TP2B		TEST POINT MINIATURE SMT
TP3A		TEST POINT MINIATURE SMT
TP3B		TEST POINT MINIATURE SMT
TP4A		TEST POINT MINIATURE SMT
TP4B		TEST POINT MINIATURE SMT
U8A		33078 DUAL OPAMP SMT SO-8
U8B		33078 DUAL OPAMP SMT SO-8
U23A		33078 DUAL OPAMP SMT SO-8
U23B		33078 DUAL OPAMP SMT SO-8
W1		26 PIN 25SQ 100 PIN SIL SMT
ZD1A		MM3Z12VT1G 12V0 0W2 5% SMT ZEN
ZD1B		MM3Z12VT1G 12V0 0W2 5% SMT ZEN
ZD2A		MM3Z12VT1G 12V0 0W2 5% SMT ZEN
ZD2B		MM3Z12VT1G 12V0 0W2 5% SMT ZEN
ZD3A		MM3Z15VT1G 15V0 0W2 5% SMT ZEN
ZD3B		MM3Z15VT1G 15V0 0W2 5% SMT ZEN
ZD4A		MM3Z12VT1G 12V0 0W2 5% SMT ZEN
ZD4B		MM3Z12VT1G 12V0 0W2 5% SMT ZEN
ZD5A		MM3Z15VT1G 15V0 0W2 5% SMT ZEN
ZD5B		MM3Z15VT1G 15V0 0W2 5% SMT ZEN
ZD6A		MM3Z15VT1G 15V0 0W2 5% SMT ZEN
ZD6B		MM3Z15VT1G 15V0 0W2 5% SMT ZEN

M1705 Parts Reference List 8/17/2018

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
C1		10U 25V 20%CAP 5X5.4 SMT EL	C117		22U 25V 20%CAP 1210 SMT X7R	R26		W125 47R 5% 0805 SMT RES	R120		W100 100R 1% 0805 SMT RES			
C2	6451	4N7 250V 20%CAP BLK 'Y' 10MM AC	C134		100N 50V 5%CAP 0805 SMT X7R	R27		W100 100R 1% 0805 SMT RES	R121		W100 10K0 1% 0805 SMT RES			
C3	5863	6800U 25V 20%CAP BLK 16X40MM EL	C145	5635	1000U 35V 20%CAP BLK RADIAL ELECT	R28		W063 4K02 1% 0603 SMT RES	R122		W125 0R 5% 0805 SMT RES			
C4	5863	6800U 25V 20%CAP BLK 16X40MM EL	C195		10U 25V 20%CAP 5X5.4 SMT EL	R29		W125 1M 5% 0805 SMT RES	R123		W125 0R 5% 0805 SMT RES			
C5	5863	6800U 25V 20%CAP BLK 16X40MM EL	D1		ES3D 200V 3A0 D214 SMT SMC	R30		W100 10K0 1% 0805 SMT RES	R124		W100 4K75 1% 0805 SMT RES			
C6		100N 16V 10%CAP 0603 SMT X7R	D2		ES3D 200V 3A0 D214 SMT SMC	R31		W100 10K0 1% 0805 SMT RES	R125		W100 10K0 1% 0805 SMT RES			
C7		10U 10V 10%CAP 1206 SMT X5R	D3		ES3D 200V 3A0 D214 SMT SMC	R32		W125 3K92 1% 0805 SMT RES	R126		W125 47K 5% 0805 SMT RES			
C8		100N 16V 10%CAP 0603 SMT X7R	D4		ES3D 200V 3A0 D214 SMT SMC	R33		W100 100R 1% 0805 SMT RES	R127		W125 47K 5% 0805 SMT RES			
C9		100N 16V 10%CAP 0603 SMT X7R	D5		ES3D 200V 3A0 D214 SMT SMC	R34		W125 47K 5% 0805 SMT RES	R128		W100 10K0 1% 0805 SMT RES			
C10		100N 16V 10%CAP 0603 SMT X7R	D6		CDSF4148 75V 0A15 1005 SMT	R35		W063 4K02 1% 0603 SMT RES	R129		W100 4K75 1% 0805 SMT RES			
C11		10U 10V 10%CAP 1206 SMT X5R	D7		ES3D 200V 3A0 D214 SMT SMC	R36		W125 3K92 1% 0805 SMT RES	R130		W100 6K98 1% 0805 SMT RES			
C12		100N 16V 10%CAP 0603 SMT X7R	D8		ES3D 200V 3A0 D214 SMT SMC	R37		W100 100R 1% 0805 SMT RES	R137		W100 1K0 1% 0805 SMT RES			
C13		100N 16V 10%CAP 0603 SMT X7R	D9		ES3D 200V 3A0 D214 SMT SMC	R38		W125 47K 5% 0805 SMT RES	R150		W125 47R 5% 0805 SMT RES			
C14		10U 10V 10%CAP 1206 SMT X5R	D10		CDSF4148 75V 0A15 1005 SMT	R39		W063 4K02 1% 0603 SMT RES	R151		W125 47R 5% 0805 SMT RES			
C15		100N 16V 10%CAP 0603 SMT X7R	D11		CDSF4148 75V 0A15 1005 SMT	R40		W100 10K0 1% 0805 SMT RES	R154		W125 47R 5% 0805 SMT RES			
C16		3N3 25V 5%CAP 0805 SMT NPO	D12		MBRA340T3 40V 3A SHTKY 403D SMT	R41		W125 3K92 1% 0805 SMT RES	R155		W125 47R 5% 0805 SMT RES			
C17		220N 50V 10%CAP 1206 SMT X7R	D13		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	R42		W100 100R 1% 0805 SMT RES	R164		W125 47R 5% 0805 SMT RES			
C18		10U 10V 10%CAP 1206 SMT X5R	D14		CDSF4148 75V 0A15 1005 SMT	R43		W100 18K2 1% 0805 SMT RES	R169		W100 100R 1% 0805 SMT RES			
C19		100N 16V 10%CAP 0603 SMT X7R	D15		CDSF4148 75V 0A15 1005 SMT	R44		W125 47K 5% 0805 SMT RES	R213		W100 1K02 1% 0603 SMT RES			
C20		10U 10V 10%CAP 1206 SMT X5R	D17		CDSF4148 75V 0A15 1005 SMT	R45		W125 47K 5% 0805 SMT RES	R214		W100 1K02 1% 0603 SMT RES			
C21		100U 25V 20%CAP 8X5.4 SMT ELE	D18		CDSF4148 75V 0A15 1005 SMT	R46		W100 1K02 1% 0603 SMT RES	R215		W100 100R 1% 0805 SMT RES			
C22		100N 16V 10%CAP 0603 SMT X7R	D19		CDSF4148 75V 0A15 1005 SMT	R47		W125 1M 5% 0805 SMT RES	R216		W100 4K99 1% 0805 SMT RES			
C23		10U 10V 10%CAP 1206 SMT X5R	D20		CDSF4148 75V 0A15 1005 SMT	R48		W250 4R7 5% 1206 SMT RES	R221		W100 4K99 1% 0805 SMT RES			
C24		100N 16V 10%CAP 0603 SMT X7R	D21		5237B 8V2 0W2 SOT-23 SMT ZEN	R49		W750 0R 1% 2010 SMT JMP	R222		W100 4K99 1% 0805 SMT RES			
C25		220P 100V 10%CAP 0805 SMT X7R	D22		CDSF4148 75V 0A15 1005 SMT	R51		W100 1K02 1% 0603 SMT RES	R274		W125 47R 5% 0805 SMT RES			
C26		1U 50V 20%CAP 4.3X3.9 SMT ELC	D23		CDSF4148 75V 0A15 1005 SMT	R54		W063 4K02 1% 0603 SMT RES	S1	4200	SP3T ROTA SW PCMT H RS1201			
C27		1U 50V 20%CAP 4.3X3.9 SMT ELC	D24		5237B 8V2 0W2 SOT-23 SMT ZEN	R55		W100 4K99 1% 0805 SMT RES	S2	3522	DPDT MINI PC VERT SNP ALT			
C28		1U 50V 20%CAP 4.3X3.9 SMT ELC	D25		CDSF4148 75V 0A15 1005 SMT	R60		W125 64K9 1% 0805 SMT RES	S3	3439	DPDT MINI PC VERT MOMENTARY			
C29		100N 16V 10%CAP 0603 SMT X7R	D26		CDSF4148 75V 0A15 1005 SMT	R61		W063 4K02 1% 0603 SMT RES	S4	6548	2P3T SLID SW PCMT V			
C30		100N 16V 10%CAP 0603 SMT X7R	D27		CDSF4148 75V 0A15 1005 SMT	R62		W100 4K99 1% 0805 SMT RES	T4	1254	1VA 16V XFMR 36X31X25MM 115/230			
C31		100N 16V 10%CAP 0603 SMT X7R	D28		CDSF4148 75V 0A15 1005 SMT	R65		W100 1K02 1% 0603 SMT RES	U1		LM1117 REGULATOR 5V0 SMT SOT223			
C32		100N 16V 10%CAP 0603 SMT X7R	D29		CDSF4148 75V 0A15 1005 SMT	R67		W100 4K99 1% 0805 SMT RES	U2		ADAU1401 28/56 DSP 2AD4DA SMT IC			
C33		100N 16V 10%CAP 0603 SMT X7R	F1	2493	FUSE T3.15A 300V RAD SLOW T&R	R68		W125 64K9 1% 0805 SMT RES	U3		MKL15Z64VLH4 48MHZ MCU SMT LQFP64			
C34		100N 50V 5%CAP 0805 SMT X7R	J1	4090	1/4IN &XLR PCB MT VERT COMBO NCJ6-V	R69		W100 19K6 1% 0603 SMT RES	U4		LM393D DUAL COMPARATOR SMT SO-8			
C35		100N 16V 10%CAP 0603 SMT X7R	J2	4210	RECEPTACLE 2 PRONG IEC	R70		W100 4K99 1% 0805 SMT RES	U5		LM2671 3V3 REG 0A5 SMT SO8			
C36		1U 50V 20%CAP 4.3X3.9 SMT ELC	J3	4090	1/4IN &XLR PCB MT VERT COMBO NCJ6-V	R71		W063 4K02 1% 0603 SMT RES	U6		LM393D DUAL COMPARATOR SMT SO-8			
C37		100N 16V 10%CAP 0603 SMT X7R	J4	4186	3.5MM JCK PCB MT VERT ST	R72		W100 4K99 1% 0805 SMT RES	U12		33078 DUAL OPAMP SMT SO-8			
C38	5863	6800U 25V 20%CAP BLK 16X40MM EL	K1	4155	RELAY 1A 10AMP DC05 040MA PC-S HC	R73		W100 1K02 1% 0603 SMT RES	U13		BM23 BLUETOOTH DIGITAL SMT MOD			
C39		4U7 25V 20%CAP 4X5.5 SMT ELC	L1		2.2UH COIL SMT	R74		W750 0R 1% 2010 SMT JMP	U14		33078 DUAL OPAMP SMT SO-8			
C40		1U 50V 20%CAP 4.3X3.9 SMT ELC	L2		FERRITE BEAD 600R @100MHZ 0805 SMT	R75		W125 64K9 1% 0805 SMT RES	U16		33078 DUAL OPAMP SMT SO-8			
C41		47U 35V 20%CAP 6.3MM SMT ELE	L3		FERRITE BEAD 600R @100MHZ 0805 SMT	R76		W100 10K0 1% 0805 SMT RES	U18		MC33079D QUAD OPAMP SMT SO14			
C42		10N 50V 10%CAP 0805 SMT X7R	L4		FERRITE BEAD 600R @100MHZ 0805 SMT	R77		W063 4K02 1% 0603 SMT RES	W1	6535	HEADER SIL (FEMALE) 26 SOCKET			
C43		47U 35V 20%CAP 6.3MM SMT ELE	L5		120.0UH COIL SR4018T 1R6 SMT	R78		W100 4K99 1% 0805 SMT RES	W3	2337	4 CIR XH-HEADER 0.098IN			
C44		15U 35V 10%CAP 6032 SMT TNT	LD2		RD/GN LED 2V1 20MA 0805 SMT	R79		W100 10K0 1% 0805 SMT RES	W3_	2337	4 CIR XH-HEADER 0.098IN			
C49		100U 10V 20%CAP 3528 SMT TNT	LD3		RD/GN LED 2V1 20MA 0805 SMT	R80		W100 19K6 1% 0603 SMT RES	W4	3465	WIRE TO BOARD CRIMP 16-18 AWG TIN			
C50		10U 10V 10%CAP 1206 SMT X5R	LD4		BL/RD LED 2V1 20MA 0805 SMT	R81		W100 4K99 1% 0805 SMT RES	W4_	3465	WIRE TO BOARD CRIMP 16-18 AWG TIN			
C51		47P 50V 5%CAP 0805 SMT NPO	LD8		BL/RD LED 2V1 20MA 0805 SMT	R82		W100 4K99 1% 0805 SMT RES	W6	4162	2 PIN POWER PIN HEADER MALE POLZED			
C52		47N 100V 10%CAP 1206 SMT X7R	LED1		RD/GN LED 2V1 20MA 0805 SMT	R83		W100 4K99 1% 0805 SMT RES	W7	4163	5 PIN POWER PIN HEADER MALE POLZED			
C53		47N 100V 10%CAP 1206 SMT X7R	M1203		W750 0R 1% 2010 SMT JMP	R84		W500 10R 5% 1210 SMT RES	W8	2327	6 CIR XH-HEADER 0.098IN			
C54		47N 100V 10%CAP 1206 SMT X7R	M1705		W750 0R 1% 2010 SMT JMP	R85		W100 10K0 1% 0805 SMT RES	W8_	2327	6 CIR XH-HEADER 0.098IN			
C55		47N 100V 10%CAP 1206 SMT X7R	P1	4453	50K B LIN 12MM 4PIN HORZ DT P40	R86		W100 10K0 1% 0805 SMT RES	W9	3465	WIRE TO BOARD CRIMP 16-18 AWG TIN			
C56		1U 50V 20%CAP 4.3X3.9 SMT ELC	Q1		MMBT3906LT1 PNP SOT-23 SMT T&R	R87		W500 10R 5% 1210 SMT RES	W9_	3465	WIRE TO BOARD CRIMP 16-18 AWG TIN			
C57		100N 50V 5%CAP 0805 SMT X7R	Q2		11.2896MHZ CRYSTAL 4-PIN SMT	R88		W500 10R 5% 1210 SMT RES	W10	2358	9 CIR XH-HEADER 0.098IN			
C59		1U 50V 20%CAP 4.3X3.9 SMT ELC	Q3		MMBT5401 PNP SOT-23 SMT	R89		W100 100R 1% 0805 SMT RES	W10_	2381	09 CIR XH-HEADER RA 0.098IN			
C60		10U 10V 10%CAP 1206 SMT X5R	Q4		MMBTA14 NPN DARL SOT-23 SMT	R90		W100 10K0 1% 0805 SMT RES	W11	4018	10 CIR WAFER DIL VT 0.1			
C61		100N 50V 5%CAP 0805 SMT X7R	Q6		MMBT5401 PNP SOT-23 SMT	R91		W500 10R 5% 1210 SMT RES	W13	3538	24 PIN BREAKAWAY LOCK .156			
C74		1N8 50V 5%CAP 0805 SMT NPO	Q11		MMBT5401 PNP SOT-23 SMT	R92		W100 4K99 1% 0805 SMT RES	W14	2370	7 CIR PH-HEADER 2MM			
C75		220P 100V 10%CAP 0805 SMT X7R	R1		W100 475R 1% 0805 SMT RES	R93		W500 10R 5% 1210 SMT RES	W14_	2370	7 CIR PH-HEADER 2MM			
C76		22U 25V 20%CAP 1210 SMT X7R	R2		W100 475R 1% 0805 SMT RES	R94		W100 4K75 1% 0805 SMT RES	W15	4194	2X2 3 MM MICRO MATE-N-LOK VRT			
C77		1N8 50V 5%CAP 0805 SMT NPO	R3		W100 1K0 1% 0805 SMT RES	R95		W500 10R 5% 1210 SMT RES						
C81		220P 100V 10%CAP 0805 SMT X7R	R4		W500 10R 5% 1210 SMT RES	R96		W500 10R 5% 1210 SMT RES						
C82		22U 25V 20%CAP 1210 SMT X7R	R5		W125 47R 5% 0805 SMT RES	R97		10K 5% THERMISTOR NTC 0603 SMT						
C83		1N8 50V 5%CAP 0805 SMT NPO	R7		W125 47R 5% 0805 SMT RES	R98		W100 10K0 1% 0805 SMT RES						
C84		220P 100V 10%CAP 0805 SMT X7R	R8		W125 47R 5% 0805 SMT RES	R99		W100 1K02 1% 0603 SMT RES						
C85		22U 25V 20%CAP 1210 SMT X7R	R9		W100 18K2 1% 0805 SMT RES	R100		W100 100R 1% 0805 SMT RES						
C86		470P 50V 5%CAP 0603 SMT NPO	R10		W125 47R 5% 0805 SMT RES	R101		W125 11K0 1% 0805 SMT RES						
C87		470P 50V 5%CAP 0603 SMT NPO	R11		W100 1K0 1% 0805 SMT RES	R102		W100 10K0 1% 0805 SMT RES						
C88		100N 50V 5%CAP 0805 SMT X7R	R12		W125 47R 5% 0805 SMT RES	R103		W125 11K0 1% 0805 SMT RES						
C89		100N 50V 5%CAP 0805 SMT X7R	R13		W125 2K2 5% 0805 SMT RES	R104		W100 10K0 1% 0805 SMT RES						
C90		100N 50V 5%CAP 0805 SMT X7R	R14		W063 4K02 1% 0603 SMT RES	R105		W100 4K75 1% 0805 SMT RES						
C91		1N8 50V 5%CAP 0805 SMT NPO	R15		W100 10K0 1% 0805 SMT RES	R106		W100 10K0 1% 0805 SMT RES						
C96		100N 50V 5%CAP 0805 SMT X7R	R16		W100 19K6 1% 0603 SMT RES	R107		W100 4K75 1% 0805 SMT RES						
C97		100N 50V 5%CAP 0805 SMT X7R	R17		W100 19K6 1% 0603 SMT RES	R108		W100 10K0 1% 0805 SMT RES						
C99		470P 50V 5%CAP 0603 SMT NPO	R19		W750 0R 1% 2010 SMT JMP	R110		W125 47R 5% 0805 SMT RES						
C100		220P 100V 10%CAP 0805 SMT X7R	R20		W125 2K2 5% 0805 SMT RES	R111		W100 1K0 1% 0805 SMT RES						
C102		470P 50V 5%CAP 0603 SMT NPO	R21		W125 47R 5% 0805 SMT RES	R112		W100 10K0 1% 0805 SMT RES						
C103		220P 100V 10%CAP 0805 SMT X7R	R22		W125 47R 5% 0805 SMT RES	R116		W100 4K75 1% 0805 SMT RES						
C110		470P 50V 5%CAP 0603 SMT NPO	R23		W125 3K92 1% 0805 SMT RES	R117		W125 47R 5% 0805 SMT RES						
C111		220P 100V 10%CAP 0805 SMT X7R	R24		W100 100R 1% 0805 SMT RES	R118		W125 47K 5% 0805 SMT RES						
C112		470P 50V 5%CAP 0603 SMT NPO	R25		W125 47K 5% 0805 SMT RES	R119		W100 100R 1% 0805 SMT RES						



PanelParts
ECO.SchDoc
BT
Bluetooth_BM23.SchDoc
BT_EN
BT_P0_4
BT_UART_TX_IND
BT_RST_N
BT_UART_TX
BT_UART_RX
BluTth
BT_SDATA_OUT
BT_LRCLK
BT_BCLK
DSP
DSP.SCHDOC
BT_Data
LRCLK
BCLK
R_HI
L_HI
R_LO
L_LO
Right_LO_SENS
Left_LO_SENS
/RESET_DSP
SPI_MOSI
SPI_MISO
SPI_CLK
SS_DSP
MCLK
Output
Output.SchDoc
L_HI_SIG
L_LO_SIG
AmpGND
R_HI_SIG
R_LO_SIG
Preamp
Preamp.SchDoc
WakeSig
Space_Sw_A
Space_Sw_B
Microcontroller
Microcontroller.SchDoc
PSgnd_
Standby_
HotLimit_
HotLimit
Mode_Switch_B
Mode_Switch_A
Mute_Switch
BT_Switch
Level_B
PowerLED
Level_T
Level_W
Microcontroller
PowerSupply.SchDoc
SBv+
SBv-
AmGnd
HotLimit
AmpMute
Standby
PSgnd
PowerSupply
LimitForHiTem
AmpMute
CHASSIS
CON HOLE 125
HC1
HC3
CDSF4148
+12V_A
-12V_A
Control PCB
C41 and C43 are placed to prevent S1 and P1 from tilting.
ASSEMBLY NOTES
Assembly.SchDoc
DESIGN HISTORY
History.SchDoc
EC1
Yorkville
Yorkville Sound Ltd.
550 Granite Court
Pickering, ON
Canada L1W 3Y8
www.yorkville.com
Product(s): RM5
Description: Powered Studio Monitor
PCB#: 8009
Rev#: V02
EML Rev#: 01
Sheet 1 Of 10
Modified: 21-J -18
File: To Sheet.SchDoc
Tmp Rev: V031

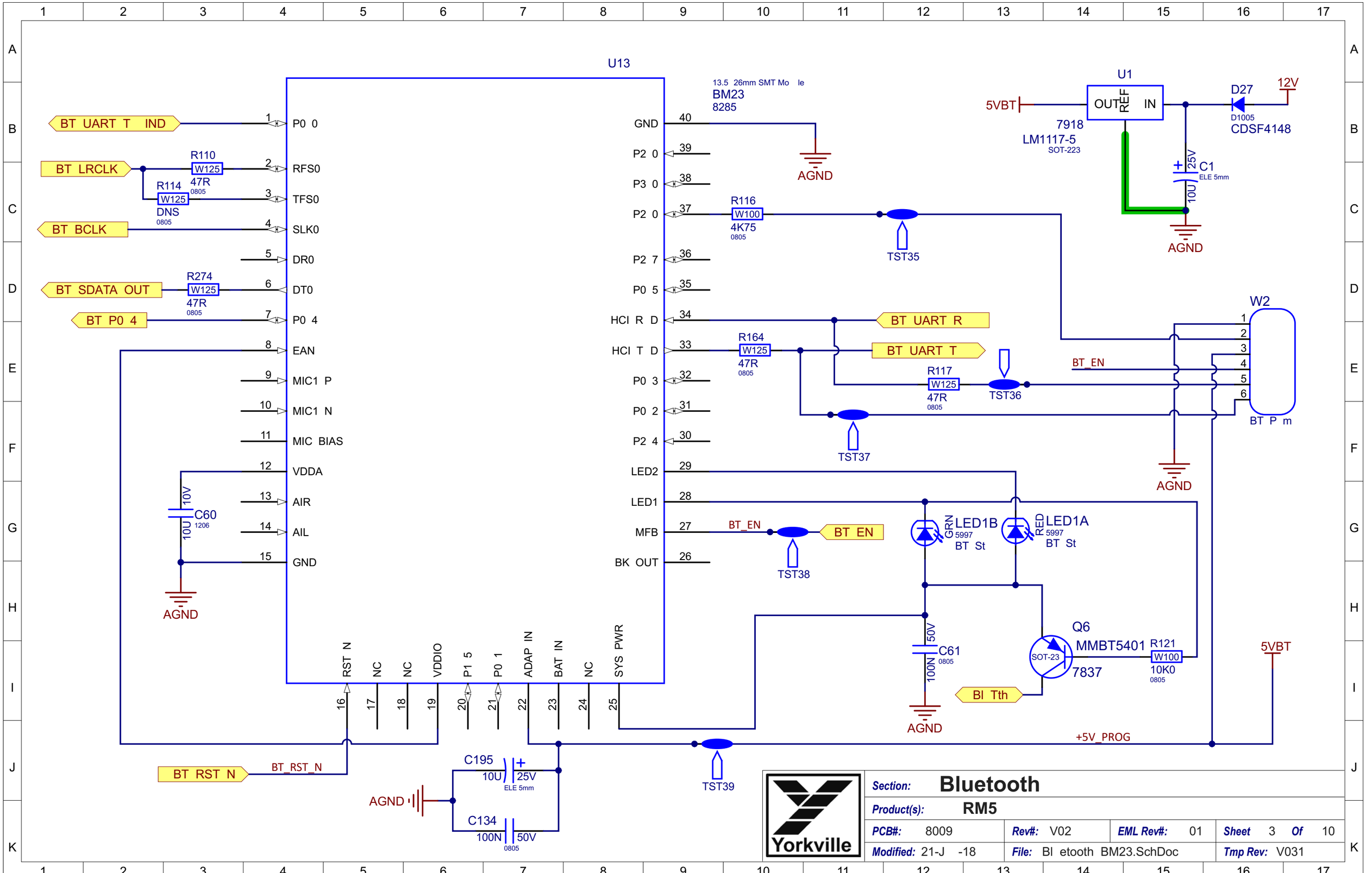


Section: Preamp

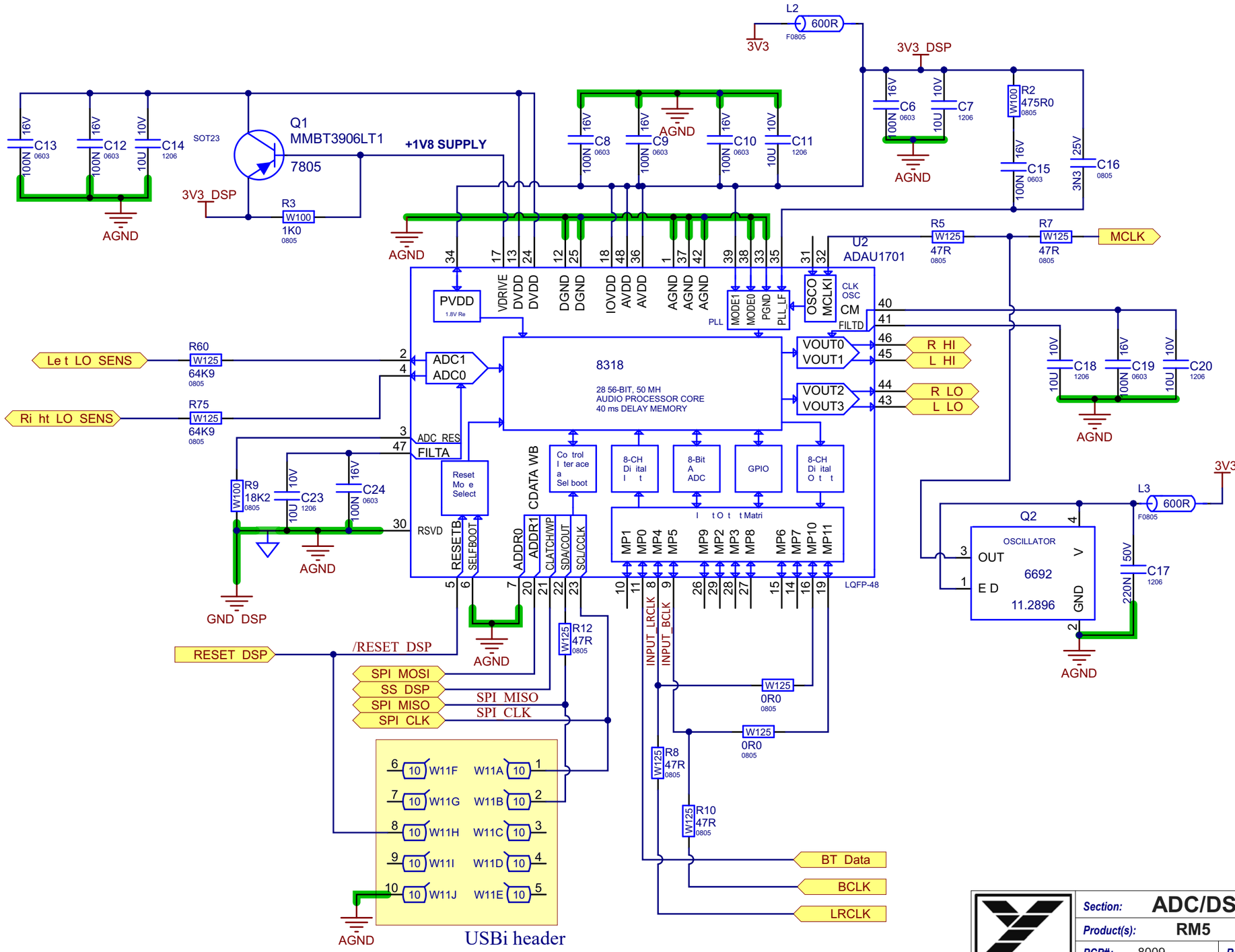
Product(s): RM5

PCB#: 8009 **Rev#:** V02 **EML Rev#:** 01 **Sheet** 2 **Of** 10

Modified: 21-J -18 **File:** Pream .SchDoc **Tmp Rev:** V031



Section:	**Bluetooth**		
Product(s):	**RM5**		
PCB#: 8009	**Rev#:** V02	**EML Rev#:** 01	**Sheet** 3 **Of** 10
Modified: 21-J -18	**File:** Bl etooth BM23.SchDoc		**Tmp Rev:** V031

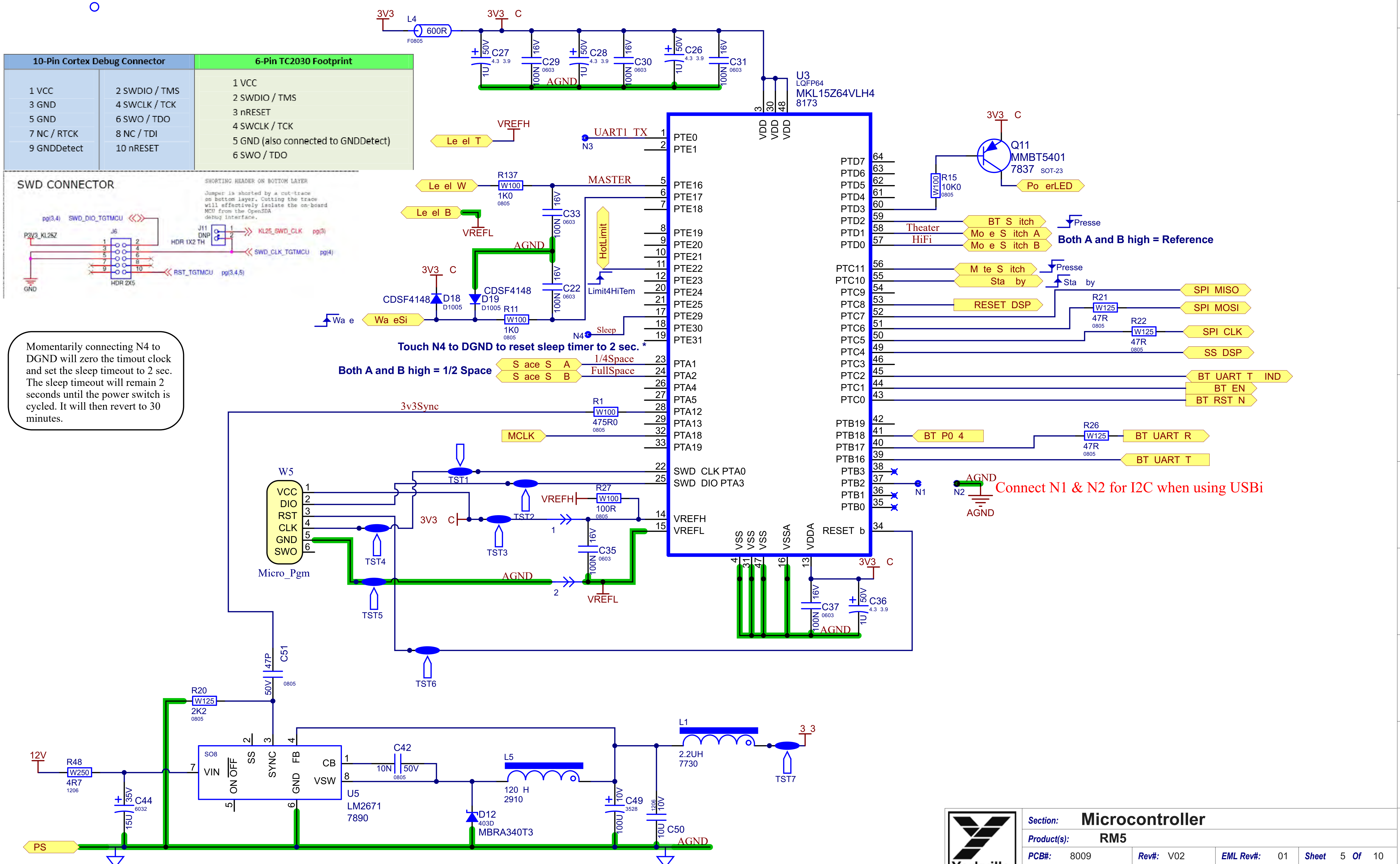


Section:	ADC/DSP				
Product(s):	RM5				
PCB#: 8009	Rev#: V02	EML Rev#: 01	Sheet 4 Of 10		
Modified: 21-J -18	File: DSP.SCHDOC		Tmp Rev: V031		

Microco troller

10-Pin Cortex Debug Connector	
1 VCC	2 SWDIO / TMS
3 GND	4 SWCLK / TCK
5 GND	6 SWO / TDO
7 NC / RTCK	8 NC / TDI
9 GNDDetect	10 nRESET

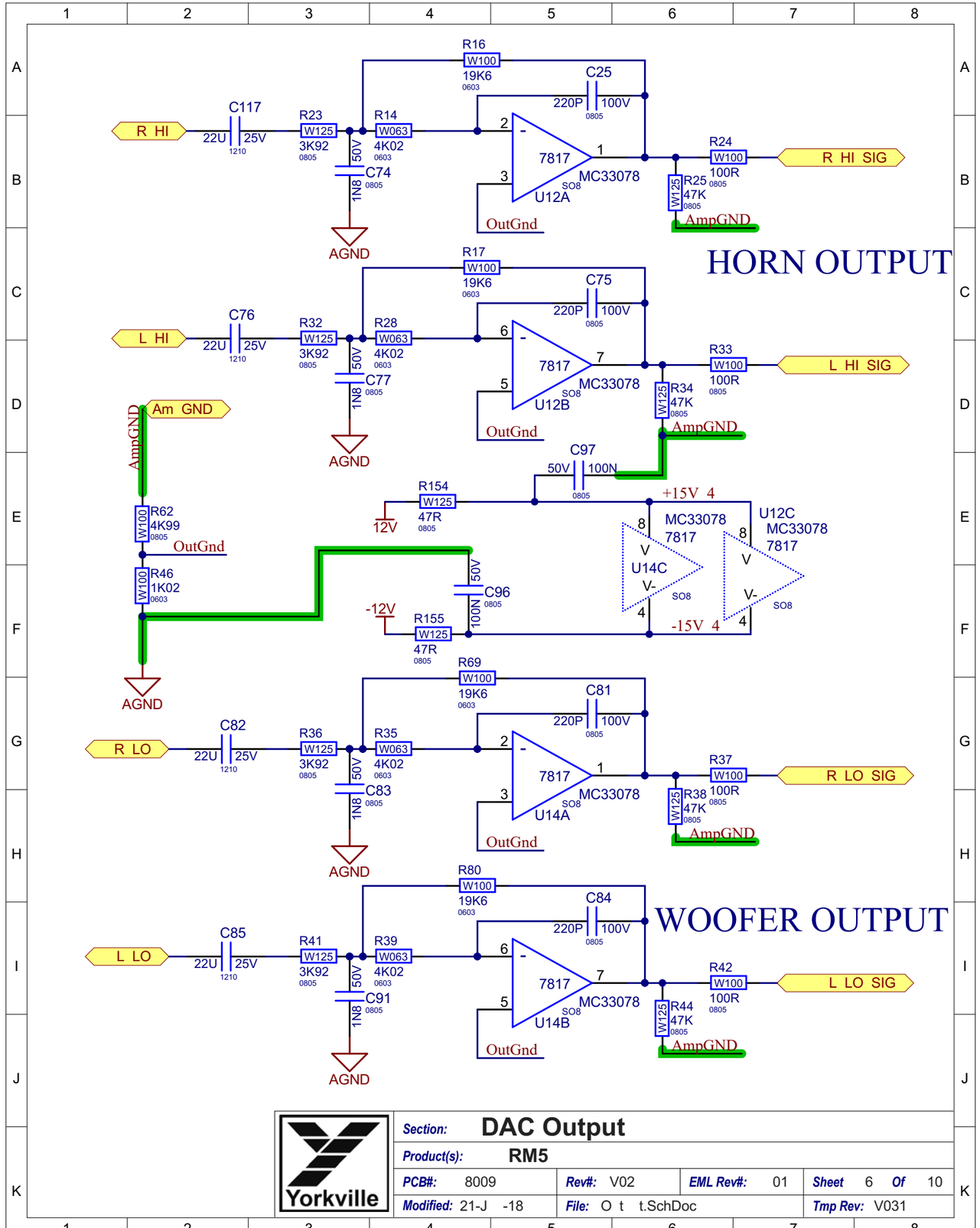
6-Pin TC2030 Footprint
1 VCC
2 SWDIO / TMS
3 nRESET
4 SWCLK / TCK
5 GND (also connected to GNDDetect)
6 SWO / TDO



SWD CONNECTOR
3V3
L4
600R
F0805
3V3 C
C27
C29
C28
C30
C26
C31
AGND
U3
LQFP64
MKL15Z64VLH4
8173
VREFH
Le el T
UART1 TX
N3
PTE0
PTE1
R137
Le el W
MASTER
PTE16
PTE17
PTE18
Le el B
C33
VREFL
HotLimit
PTE19
PTE20
PTE21
PTE22
PTE23
PTE24
PTE25
PTE29
PTE30
PTE31
CDSF4148
D18
D19
R11
C22
Limit4HiTem
Wa eSi
N4
Sleep
Touch N4 to DGND to reset sleep timer to 2 sec. *
Both A and B high = 1/2 Space
S ace S A
S ace S B
1/4Space
FullSpace
PTA1
PTA2
PTA4
PTA5
PTA12
PTA13
PTA18
PTA19
3v3Sync
R1
475R0
MCLK
SWD CLK PTA0
SWD DIO PTA3
VREFH
VREFL
RESET b
VSS
VSSA
VDDA
VDD
W5
VCC
DIO
RST
CLK
GND
SWO
Micro_Pgm
TST1
TST2
TST3
TST4
TST5
TST6
TST7
R27
100R
C35
C37
C36
Q11
MMBT5401
7837
SOT-23
R15
10K0
Po erLED
PTD7
PTD6
PTD5
PTD4
PTD3
PTD2
PTD1
PTD0
BT S itch
Theater
HiFi
Mo e S itch A
Mo e S itch B
Presse
Both A and B high = Reference
PTC11
PTC10
PTC9
PTC8
PTC7
PTC6
PTC5
PTC4
PTC3
PTC2
PTC1
PTC0
M te S itch
Sta by
RESET DSP
R21
47R
R22
SPI MISO
SPI MOSI
SPI CLK
SS DSP
BT UART T IND
BT EN
BT RST N
PTB19
PTB18
PTB17
PTB16
PTB3
PTB2
PTB1
PTB0
BT P0 4
R26
BT UART R
BT UART T
N1
N2
AGND
Connect N1 & N2 for I2C when using USBi
C51
47P
R20
2K2
12V
R48
4R7
C44
15U
PS
U5
LM2671
7890
VIN
ON OFF
SS
SYNC
FB
GND
CB
VSW
C42
10N
L5
120 H
2910
D12
MBRA340T3
C49
C50
L1
2.2UH
7730
3 3

Momentarily connecting N4 to DGND will zero the timout clock and set the sleep timeout to 2 sec. The sleep timeout will remain 2 seconds until the power switch is cycled. It will then revert to 30 minutes.

Yorkville	Section: Microcontroller				
	Product(s): RM5				
	PCB#: 8009	Rev#: V02	EML Rev#: 01	Sheet 5 Of 10	
	Modified: 21-J -18	File: Microco troller.SchDoc		Tmp Rev: V031	


HORN OUTPUT
WOOFER OUTPUT
R HI
L HI
R LO
L LO
R HI SIG
L HI SIG
R LO SIG
L LO SIG
Am GND
AmpGND
OutGnd
AGND
12V
-12V
+15V 4
-15V 4
R16 W100 19K6 0603
R17 W100 19K6 0603
R80 W100 19K6 0603
R69 W100 19K6 0603
C117 22U 25V 1210
C76 22U 25V 1210
C82 22U 25V 1210
C85 22U 25V 1210
R23 W125 3K92 0805
R32 W125 3K92 0805
R36 W125 3K92 0805
R41 W125 3K92 0805
R14 W063 4K02 0603
R28 W063 4K02 0603
R35 W063 4K02 0603
R39 W063 4K02 0603
C74 50V 1N8 0805
C77 50V 1N8 0805
C83 50V 1N8 0805
C91 50V 1N8 0805
C25 220P 100V 0805
C75 220P 100V 0805
C81 220P 100V 0805
C84 220P 100V 0805
C97 50V 100N 0805
C96 50V 100N 0805
R24 W100 100R 0805
R33 W100 100R 0805
R37 W100 100R 0805
R42 W100 100R 0805
R25 W125 47K 0805
R34 W125 47K 0805
R38 W125 47K 0805
R44 W125 47K 0805
R154 W125 47R 0805
R155 W125 47R 0805
R62 W100 4K99 0805
R46 W100 1K02 0603
7817 MC33078 SO8
U12A
U12B
U14A
U14B
U12C MC33078 7817
U14C
Section: DAC Output
Product(s): RM5
PCB#: 8009
Rev#: V02
EML Rev#: 01
Sheet 6 Of 10
Modified: 21-J -18
File: O t t.SchDoc
Tmp Rev: V031
Yorkville

FOR NA STUFF R19 AND R74
FOR CE STUFF R49

W1000 TERMINAL W9 — F1 3A15 2493 — 7.5 BLK 18AWG 36STND D I 2 3465

7.5 BLK 18AWG 36STND D I 2 3465 — W1000 TERMINAL W4

R19 0R 2010 NA — R74 0R 2010 NA — R49 0R 2010 W755 CE

T4 1254

CDSF4148 D22 D1005 — D17 D1005 — CDSF4148 — D20 D1005 — CDSF4148 — D25 D1005 — CDSF4148

+7v — C145 1000U RADIAL 35V — C21 25V 1000U 8 8mm

TST28 SB — PSgnd TST29 GND — TST40 SB -

W9 TERMINAL W1000 — W4 TERMINAL W1000 — IEC RECT-2 i 4210 J2

K1A RELAY 1A 4155

2 W6B — 1 W6A 4093

BLK 120V — WHT 0V — 120V RED — BLU 0V

GRY — RED — YEL — RED — GRY

4163

W7E 5 GRY — W7D 5 4 GRY — W7C 5 3 YEL — W7A 5 1 RED — W7B 5 2 RED

NA CH1345
CE CH1345E

C2 4N7 250V — CHASSIS

44V — C3 25V 6800U 16 35MM — TST30 — 22V

D1 S3D DO-214AB — D2 S3D DO-214AB — D3 S3D DO-214AB — D4 S3D DO-214AB

R76 W100 10K0 0805 — R79 W100 10K0 0805

C4 25V 6800U 16 35MM — PS — AmG — GND — TST31

D5 S3D DO-214AB — D7 S3D DO-214AB — D8 S3D DO-214AB — D9 S3D DO-214AB

C5 25V 6800U 16 35MM

R85 W100 10K0 0805 — R90 W100 10K0 0805

-44V — C38 25V 6800U 16 35MM — TST32 — -22V

+7v — R105 W100 4K75 0805 — R118 W125 47K 0805 — R126 W125 47K 0805 — R104 W100 10K0 0805

TST41 — U6B 7661 LM393D — U6C — R43 W100 18K2 0805 — R31 W100 10K0 0805 — HotLimit — LimitForHiTem

R94 W100 4K75 0805 — TST43 — R130 W100 6K98 0805 — R97 W063 10K

+7v — R106 W100 10K0 0805 — R127 W125 47K 0805 — R107 W100 4K75 0805 — TST42

U6A 7661 LM393D — R129 W100 4K75 0805 — Sta by — Sta by — R108 W100 10K0 0805 — D28 CDSF4148 D1005

+7v — R98 W100 10K0 0805 — R45 W125 47K 0805 — TST34 — U4A 7661 LM393D — R111 W100 1K0 0805

+7v — R124 W100 4805 — Q4 SOT-23 MMBTA14LTIG 7701 — 4155 K1B RELAY 1A — D14 CDSF4148 D1005

R112 W100 10K0 0805 — U4C — U4B 7661 LM393D — R128 W100 10K0 0805

-20V UNMUTE

MUTE OFF

D10 CDSF4148 D1005 — D11 CDSF4148 D1005 — R13 W125 2K2 0805 — D13 18V0 SOD-323 — C40 1U 50V 4.3 3.9 — R30 W100 10K0 0805 — C39 4U7 25V Elec

R29 W125 1M 0805 — Q3 SOT-23 MMBT5401 7837 — Am M te — TST33 — M te

GND

Yorkville

Section: Power Supply			
Product(s): RM5			
PCB#: 8009	Rev#: V02	EML Rev#: 01	Sheet 7 Of 10
Modified: 21-J -18	File: Po erS ly.SchDoc		Tmp Rev: V031

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	07-APR-2017	V01	.	RELEASED FOR PRODUCTION
2	01-SEP-2017	V02 1	.	Thermal circ it mo s. Cha e W8 9- i to 6- i l s W3 4- i or HotLimit si al to micro.
3	12-JUN-2018	V02	9242	U ate layo t PDF art mbers or C3, C4, C5 a C38 to YS#5863.
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THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section:	Design Information And History				
Product(s):	RM5				
PCB#:	8009	Rev#:	V02	EML Rev#:	01
Modified:	21-J -18	File:	History.SchDoc	Tmp Rev:	V031

PCB ASSEMBLY DOCUMENTATION

Cannot open file D:\RM5 AC RTV.jpg

SPECIAL PRODUCTION NOTES

1. Do ot be tra s ormer lea s o T1 YS# 1254.

2. A ly RTV to all tall ca s a a ro riate areas.

3. For North America (M1705) st R19 a R74.
   For CE (M1203) st R49 a o ot st R19 a R74.

4. Use i a c tter here ossible to se arate cb rom a el.

Cannot open file D:\RM5 IP RTV.jpg

PCB HARDWARE

SCREWS AND BOLTS	NUTS	STANDOFFS	MISCELLANEOUS

POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS

REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P1	LEVEL	4453	P40	9086
S1	MODE	4200	ROT3	9086
S2	O O	3522	.	9089
S3	BT Mo e	3439	.	9088
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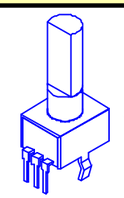


"STYLE_P32"

9089

9088

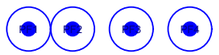
THIS SHEET CONTAINS SPECIAL PRODUCTION NOTES AND A LIST OF PCB HARDWARE PARTS REQUIRED FOR THE BUILD.

Yorkville

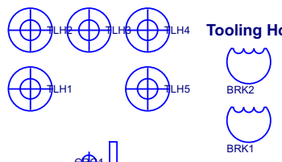
Section:	Assembly Documentation				
Product(s):	RM5				
PCB#: 8009		Rev#: V02	EML Rev#: 01	Sheet 9	Of 10
Modified: 21-J -18		File: Assembly.SchDoc		Tmp Rev: V031	

PANEL PARTS

Corners



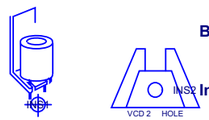
Panel Fiducials



Tooling Holes

Clinch Origin

M1203 *RM5CE*



BEC LOC

Insert Origin

Bla Si e - 285.000mm 152.000mm(11220 5984)

PCB Title

Ste & Re eat 1 1.234Y1 123.4

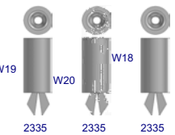
1

1.234

1

123.4

Room1
Fi ePitchU8
Room2
Fi ePitchU10
Room4
I oreAC 1



DOCUMENTATION

Blank PCB

PCB

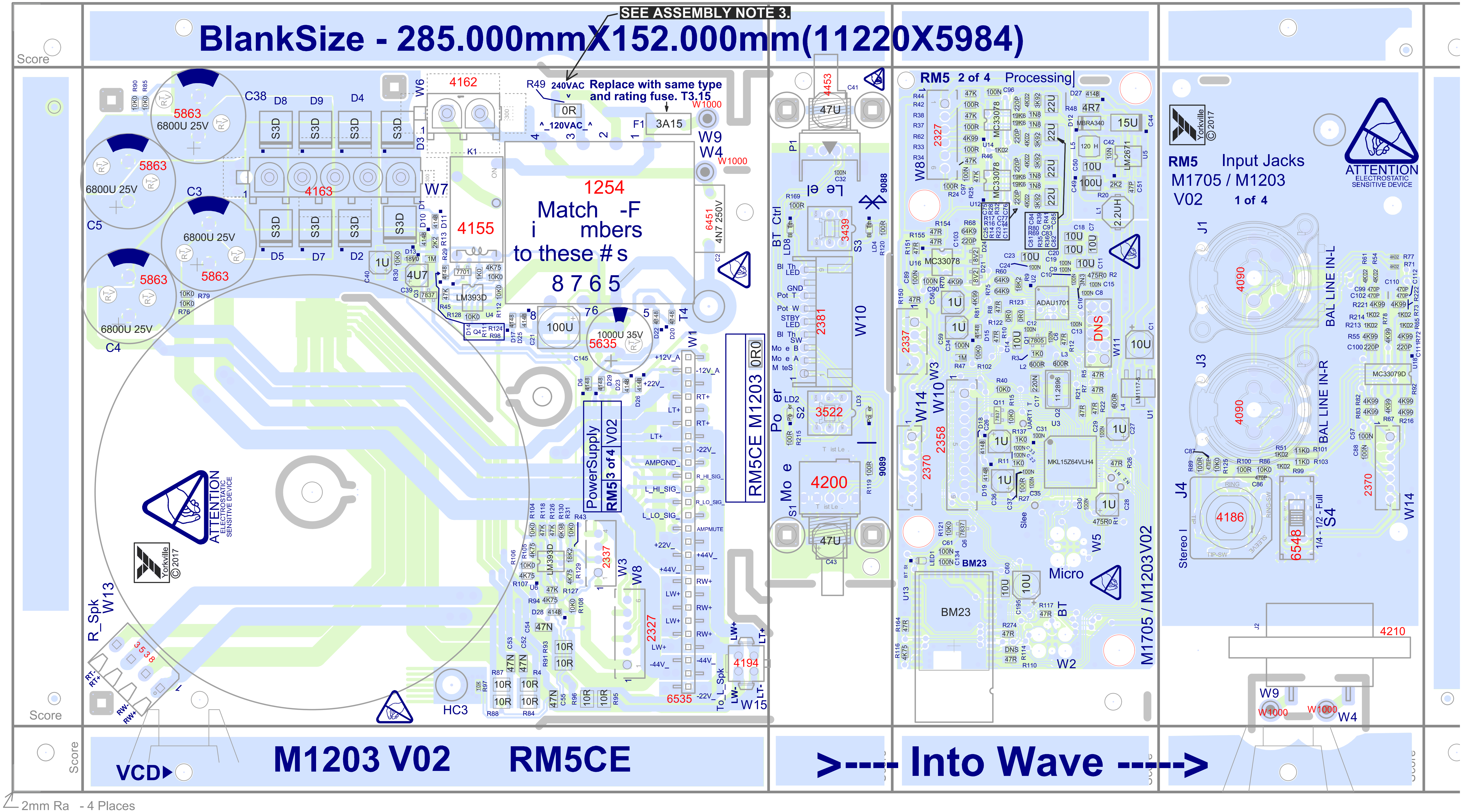
AI Sub-Assembly

AI-ASSY

Room3
I oreAC

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

Yorkville	Section: ECAD Incidentals				
	Product(s): RM5				
	PCB#: 8009	Rev#: V02	EML Rev#: 01	Sheet 10 Of 10	
	Modified: 21-J -18	File: ECO.SchDoc		Tmp Rev: V031	



M1705 / M1203 V02

PCB ASSEMBLY DOCUMENTATION

Cannot open file D:\RM5 AC RTV.jpg

SPECIAL PRODUCTION NOTES

1. Do ot be tra s ormer lea s o T1 YS# 1254.

2. A ly RTV to all tall ca s a a ro riate areas.

3. For North America (M1705) st R19 a R74.
   For CE (M1203) st R49 a o ot st R19 a R74.

4. Use i a c tter here ossible to se arate cb rom a el.

Cannot open file D:\RM5 IP RTV.jpg

PCB HARDWARE

SCREWS AND BOLTS	*NUTS*	*STANDOFFS*	*MISCELLANEOUS*

POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS

REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P1	LEVEL	4453	P40	9086
S1	MODE	4200	ROT3	9086
S2	O O	3522	.	9089
S3	BT Mo e	3439	.	9088
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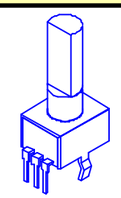

"STYLE_P32"

9089

9088

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

Yorkville

Section:	**Assembly Documentation**				
Product(s):	**RM5**				
PCB#: 8009		*Rev#:* V02	*EML Rev#:* 01	*Sheet* 1 *Of* 9	
Modified: 12-J -18		*File:* Assembly.SchDoc		*Tmp Rev:* V031	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	07-APR-2017	V01	.	RELEASED FOR PRODUCTION
2	01-SEP-2017	V02 1	.	Thermal circ it mo s. Cha e W8 9- i to 6- i l s W3 4- i or HotLimit si al to micro.
3	12-JUN-2018	V02	9242	U ate layo t PDF art mbers or C3, C4, C5 a C38 to YS#5863.
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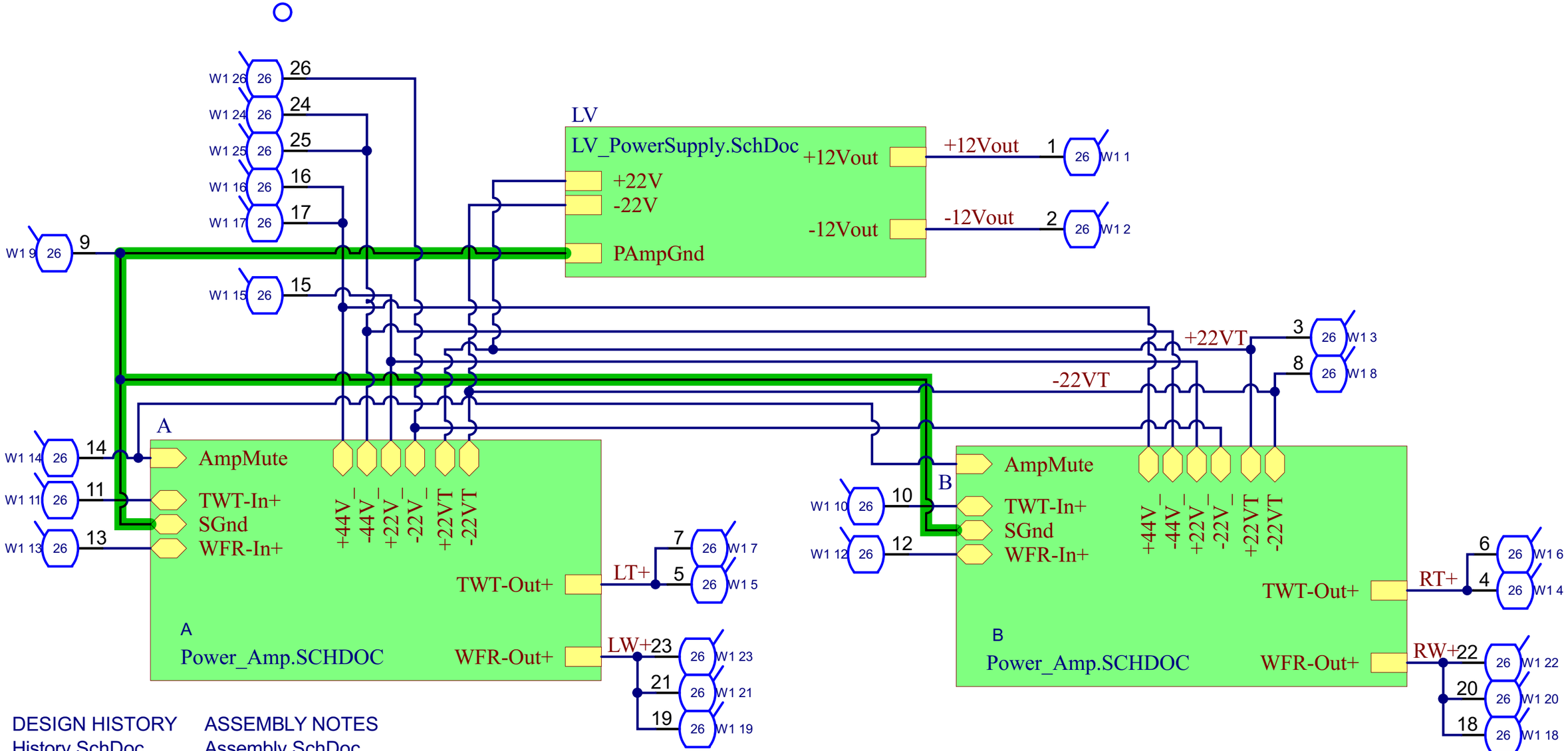
THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section:	Design Information And History			
Product(s):	RM5			
PCB#: 8009	Rev#: V02	EML Rev#: 01	Sheet 9 Of 9	
Modified: 12-J -18	File: History.SchDoc		Tmp Rev: V031	

RM5 Am li ier - To Sheet



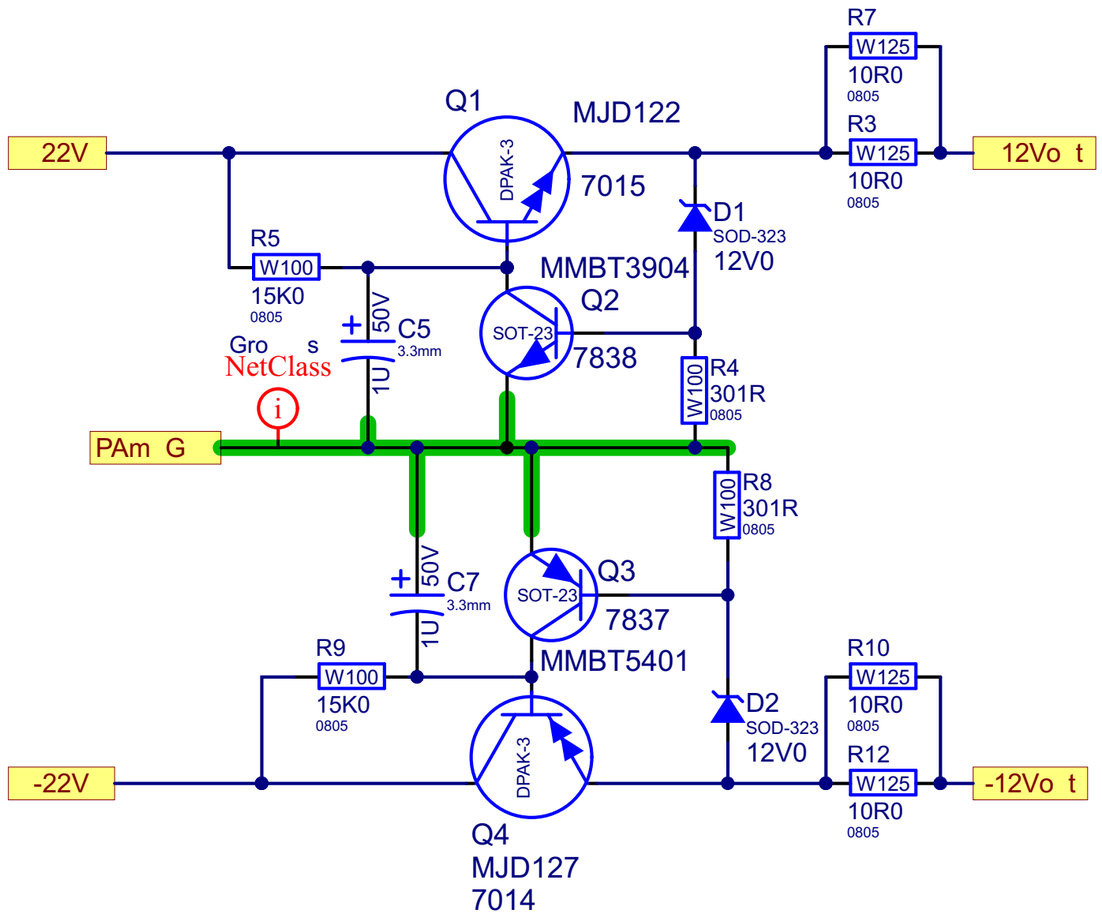
DESIGN HISTORY
History.SchDoc

ASSEMBLY NOTES
Assembly.SchDoc

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

Product(s): RM5			
Description: Powered Studio Monitor			
PCB#: M1494	Rev#: V02	EML Rev#: 01	Sheet 1 Of 6
Modified: 2018-02-06	File: To Sheet.SchDoc		Tmp Rev: V031

LV Po er S ly



Section: LV Power Supply			
Product(s): RM5			
PCB#: M1494	**Rev#:** V02	**EML Rev#:** 01	**Sheet** 1 **Of** 6
Modified: 2018-02-06	**File:** LV Po erS ly.SchDoc		**Tmp Rev:** V031

Yorkville

Po er Am

Ch Amps

Tweeter Amp

Horn Bias Set to 1.5mV
Between TP1Ch and TP2Ch

TWT-I
TWT-In+
R114 W100 301R 0805
C4 10U Elec 16V
R102 W125 0805 30K0
R64 W100 2K74
U8 2 SO8 MC33078
R118 W125 2K2
C52 1N 50V
C53 27P 50V
MMBF4391LT1
Q24 SOT-23
R119 W125 5K76 0805
7806
SGND
C60 10U Elec 16V
R153 W100 15K0
R166 W100 1K0
C62 100P 50V
SG
SGND
AmpMute
Am M te
R45 W125 47R
D24 250V SOT-23
22VT
P2 B 10K Bias 4512
R98 W125 10R0
R99 W333 33R
R46 W250 1206 330R
R47 W250 1206 330R
R48 W125 47R
C2 5N6 50V
Q21 MJD122 7015 DPAK-3
Desi ator TP1
R115 W100 0R047 2512
C3 1N 0805 50V
MMBTA64 8022
Q23 SOT-23
100N C49 50V 0805
R116 W125 30K0 0805
U8 3 SO8 MC33078
C38 ELE 8mm 25V 100U
ZD1 12V0 SOD-323
ZD2 12V0 SOD-323
C51 ELE 8mm 25V 100U
R141 1W00 0R047 2512
TWT-O t
C50 1N 0805 50V
R143 470R
R144 49K9 0805
R145 W125 10R0
R146 W333 33R
C59 5N6 50V
R162 W125 47R
TP2
Q25 MJD127 7014 DPAK-3
R156 W100 15K0
D30 CDSF4148 D1005
U8 1 SO8 MC33078
R197 W125 47R
R190 W250 1206 330R
R196 W250 1206 330R
D32 250V SOT-23
-22VT

Woofer Amp

Woofer Bias Set to 1.5mV
Between TP3Ch and TP4Ch

WFR-I
WFR-In+
R11 W125 10R0 0805
C64 10U Elec 16V
R226 W125 5K76 0805
R227 W125 0805 30K0
R224 W100 2K74
U23 2 SO8 MC33078
R231 2K2
C68 1N 50V
C69 47P 100V
R232 5K76 0805
Q30 SOT-23
7806
MMBF4391LT1
SGND
C71 10U Elec 16V
R240 W100 15K0
R246 W100 1K0
C95 330P 50V
C1 5N6 50V 0805
R230 W125 47R
C67 100N 50V 0805
P3 B 10K Bias 4512
Q29 SOT-23
MMBTA64 8022
R235 W125 30K0 0805
R243 470R
R242 W125 49K9 0805
R248 W100 15K0
D38 CDSF4148 D1005
U23 1 SO8 MC33078
R249 W125 47R
D33 250V SOT-23
D34 250V SOT-23
R1 W125 47R
R225 W125 47R
R199 W250 1206 330R
R200 W250 1206 330R
R223 W100 100R
ZD3 15V0 SOD-323
C6 1N 0805 50V
R13 W125 0805 33R
Q27 MJD122 DPAK-3
7015
TP3
R233 1W00 0R047 2512
+44V
44V
Q26 IRF530NS 7840 D2PAK
D35 MURA240T3 403D
+22V
22V
Q28 MJD122 7015 DPAK-3
R234 1W00 0R047 2512
R6 W250 0R
WFR-O t
C65 1N 0805 50V
U23 3 SO8 MC33078
C66 ELE 8mm 25V 100U
ZD4 12V0 SOD-323
ZD5 15V0 SOD-323
C72 ELE 8mm 25V 100U
R236 1W00 0R047 2512
R237 1W00 0R047 2512
C70 1N 0805 50V
R244 W125 10R0
R245 W333 33R
R247 W125 47R
R2 W125 47R
D41 250V SOT-23
MJD127 7014
TP4 Q31
Q32 MJD127 7014 DPAK-3
MURA240T3 D37 -22V 403D
R250 W250 1206 330R
R251 W250 1206 330R
R252 W100 100R
ZD6 15V0 SOD-323
D42 250V SOT-23
Q33 IRF9530NS 7839 D2PAK
-44V

Yorkville	Section: Power Amp		
	Product(s): RM5		
PCB#: M1494	Rev#: V02	EML Rev#: 01	Sheet 2 Of 6
Modified: 2018-02-06	File: Po er Am .SCHDOC		Tmp Rev: V031

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	13-APR-2017	V01	.	RELEASED V01
2	22-JAN-2018	.	9151	FOR DETAILS SEE PC AND ASSEMBLY PAGE
3	06-FEB-2018	V02	9151	PC IMPLEMENTED ON BOARD
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POTENTIOMETERS AND KNOBS

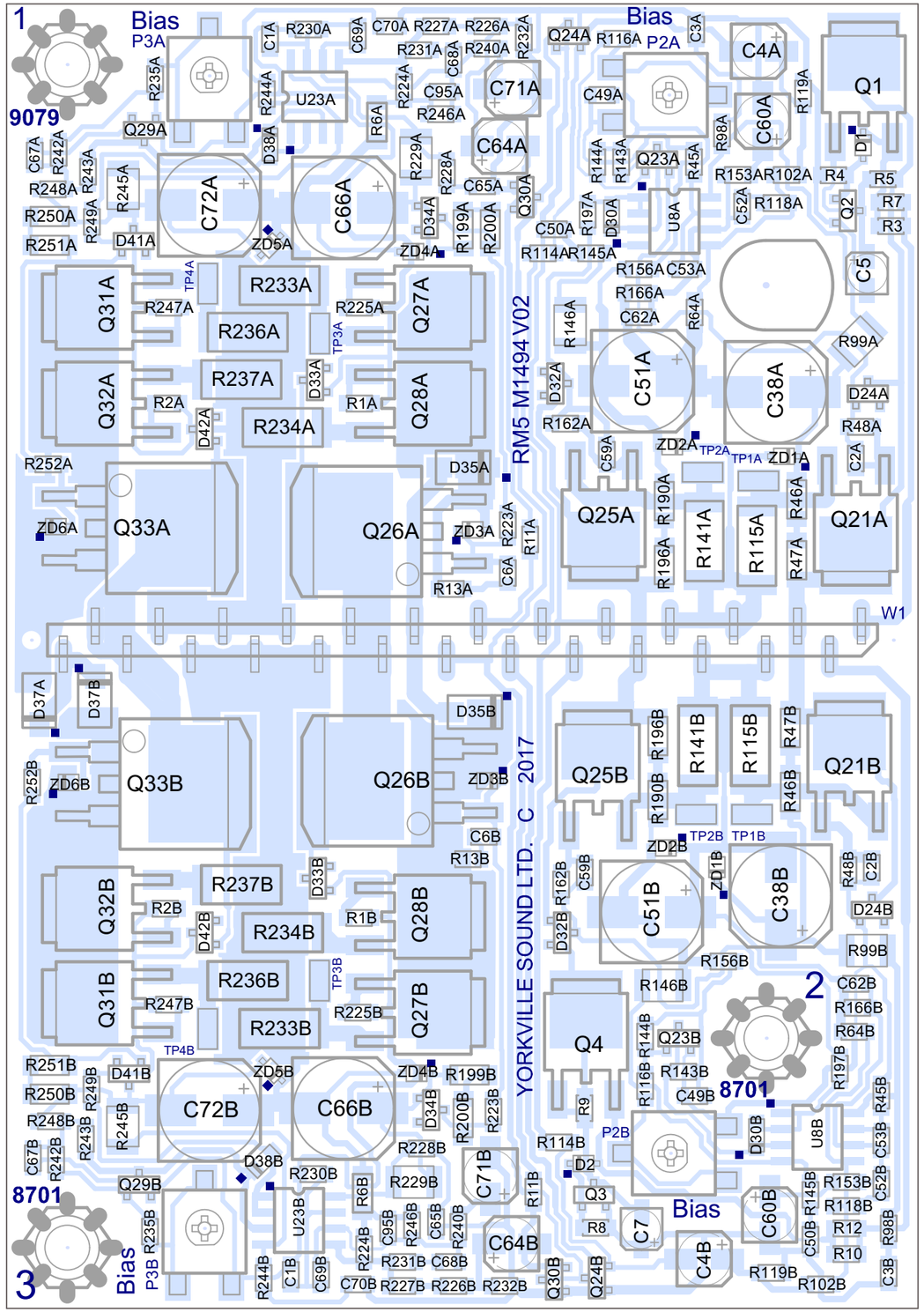
POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#

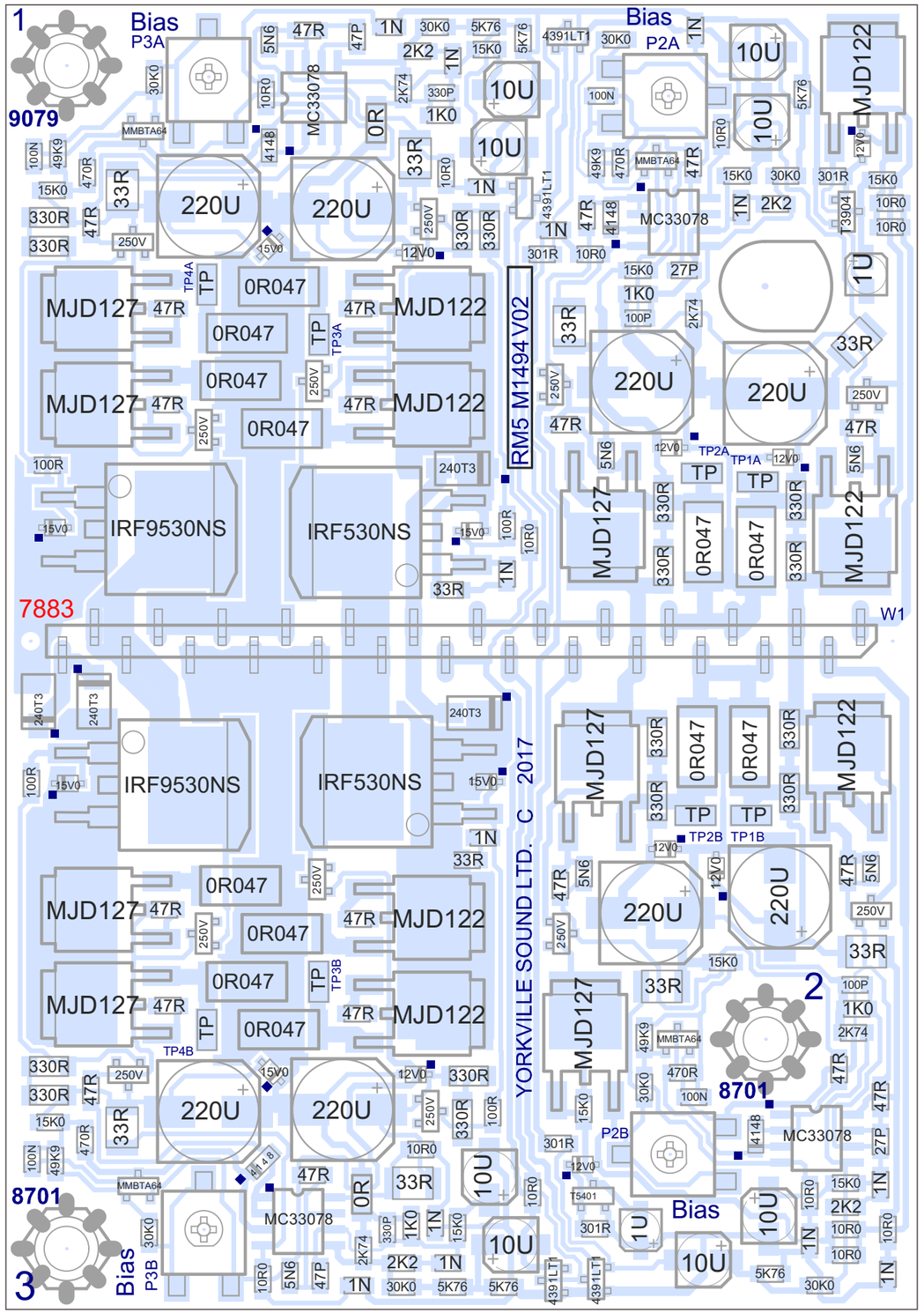
THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section:	Design Information And History				
Product(s):	RM5				
PCB#:	M1494	Rev#:	V02	EML Rev#:	01
Modified:	2018-02-07	File:	History.SchDoc	Tmp Rev:	V031

Sheet 1 Of 6





DESIGNATORS

M1494 V02 RM5

VALUES

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

1. HAND PLACE CONNECTOR W1 (#7883) BEFORE THE REFLOW OVEN.
2. USE PIZZA CUTTER TO SEPERATE BOARDS FROM PANEL.

PCB HARDWARE

SCREWS AND BOLTS	NUTS	STANDOFFS	MISCELLANEOUS

DOCUMENTATION


PCB

Blank PCB


AI-ASSY

AI Sub-Assembly

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

Yorkville

Section:	Assembly Documentation				
Product(s):	RM5				
PCB#: M1494	Rev#: V02	EML Rev#: 01	Sheet 1 Of 6		
Modified: 2018-02-26	File: Assembly.SchDoc		Tmp Rev: V031		

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	13-APR-2017	V01	.	RELEASED V01
2	22-JAN-2018	.	9151	FOR DETAILS SEE PC AND ASSEMBLY PAGE
3	06-FEB-2018	V02	9151	PC IMPLEMENTED ON BOARD
4	.	.	.	CHANGE YS#7811 ON C38A, C51A, C66A, C72A,
5	26-FEB-2018	.	9171	C38B, C51B, C66B, C72B WITH YS#8510
6	.	.	.	.
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POTENTIOMETERS AND KNOBS

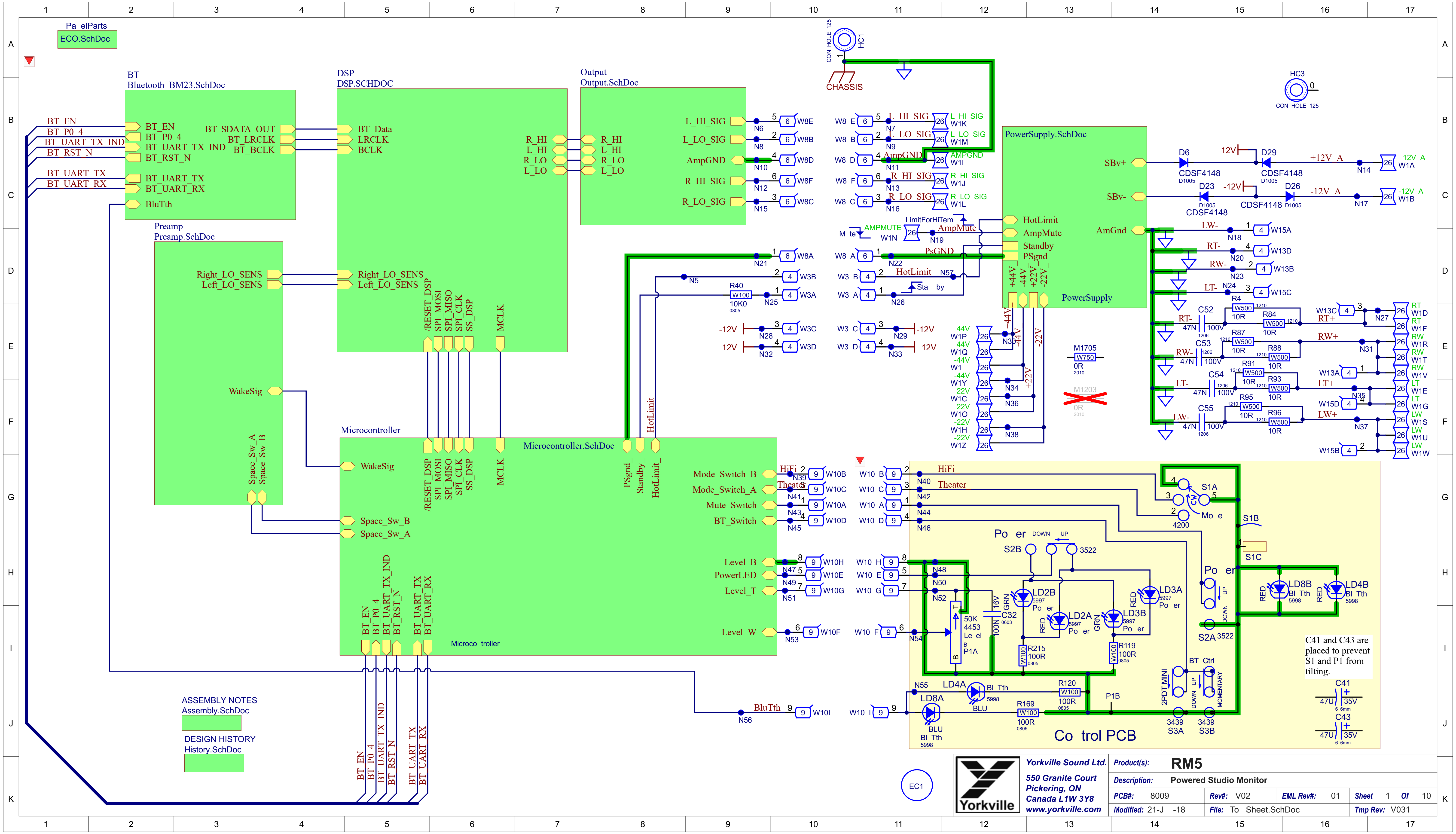
POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#

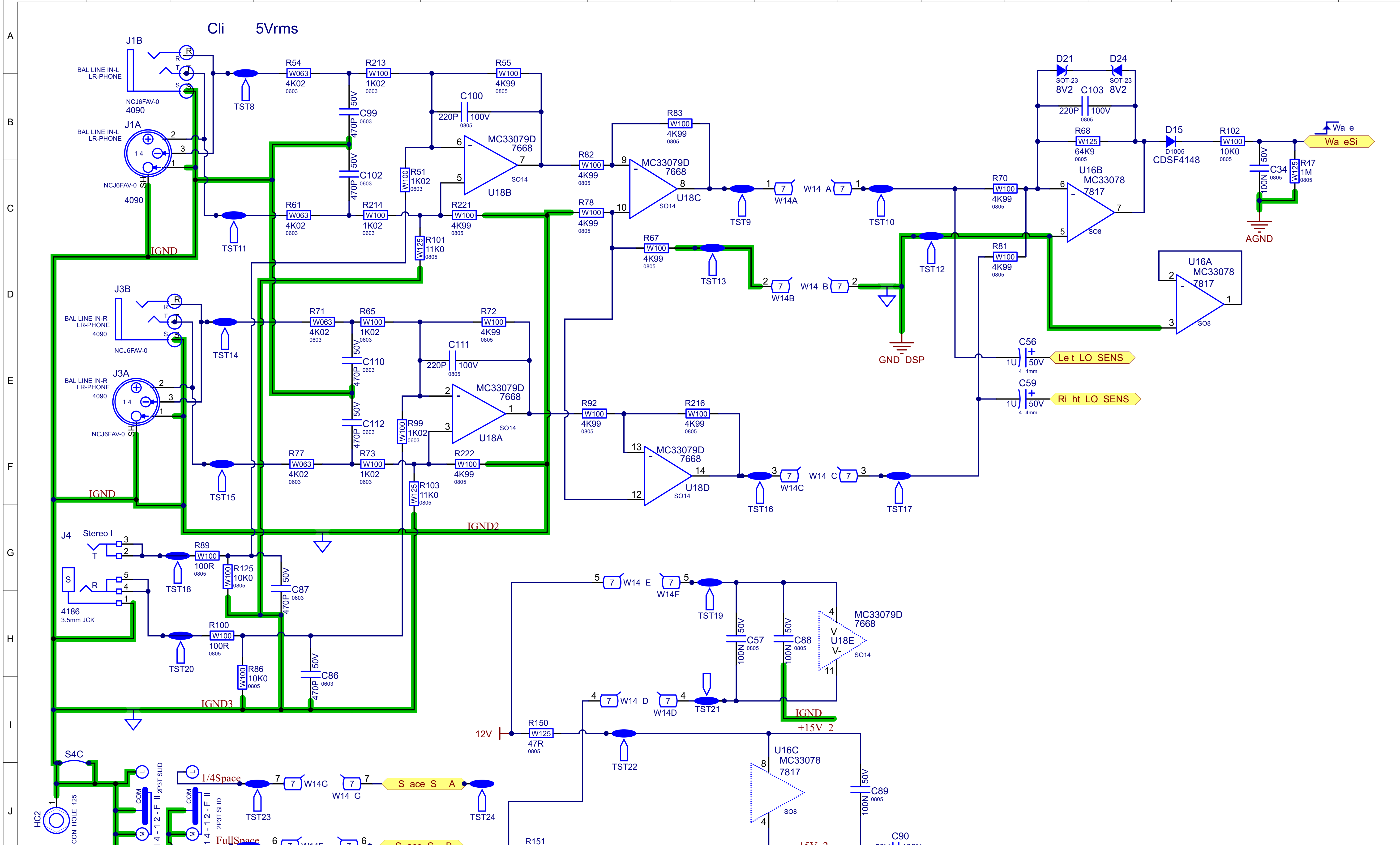
THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section:	Design Information And History				
Product(s):	RM5				
PCB#:	M1494	Rev#:	V02	EML Rev#:	01
Modified:	2018-02-26	File:	History.SchDoc	Tmp Rev:	V031

Sheet 1 Of 6


PanelParts
ECO.SchDoc
BT
Bluetooth_BM23.SchDoc
DSP
DSP.SCHDOC
Output
Output.SchDoc
Preamp
Preamp.SchDoc
PowerSupply.SchDoc
Microcontroller
Microcontroller.SchDoc
BT_EN
BT_P0_4
BT_UART_TX_IND
BT_RST_N
BT_UART_TX
BT_UART_RX
BluTth
BT_SDATA_OUT
BT_LRCLK
BT_BCLK
BT_Data
LRCLK
BCLK
R_HI
L_HI
R_LO
L_LO
L_HI_SIG
L_LO_SIG
AmpGND
R_HI_SIG
R_LO_SIG
Right_LO_SENS
Left_LO_SENS
/RESET_DSP
SPI_MOSI
SPI_MISO
SPI_CLK
SS_DSP
MCLK
WakeSig
Space_Sw_A
Space_Sw_B
PSgnd
Standby
HotLimit
Mode_Switch_B
Mode_Switch_A
Mute_Switch
BT_Switch
Level_B
PowerLED
Level_T
Level_W
HotLimit
AmpMute
Standby
PSgnd
AmGnd
SBv+
SBv-
PowerSupply
CHASSIS
CON HOLE 125
HC1
HC3
CDSF4148
Control PCB
C41 and C43 are placed to prevent S1 and P1 from tilting.
ASSEMBLY NOTES
Assembly.SchDoc
DESIGN HISTORY
History.SchDoc
EC1
Yorkville
Yorkville Sound Ltd.
550 Granite Court
Pickering, ON
Canada L1W 3Y8
www.yorkville.com
Product(s): RM5
Description: Powered Studio Monitor
PCB#: 8009
Rev#: V02
EML Rev#: 01
Sheet 1 Of 10
Modified: 21-J -18
File: To Sheet.SchDoc
Tmp Rev: V031

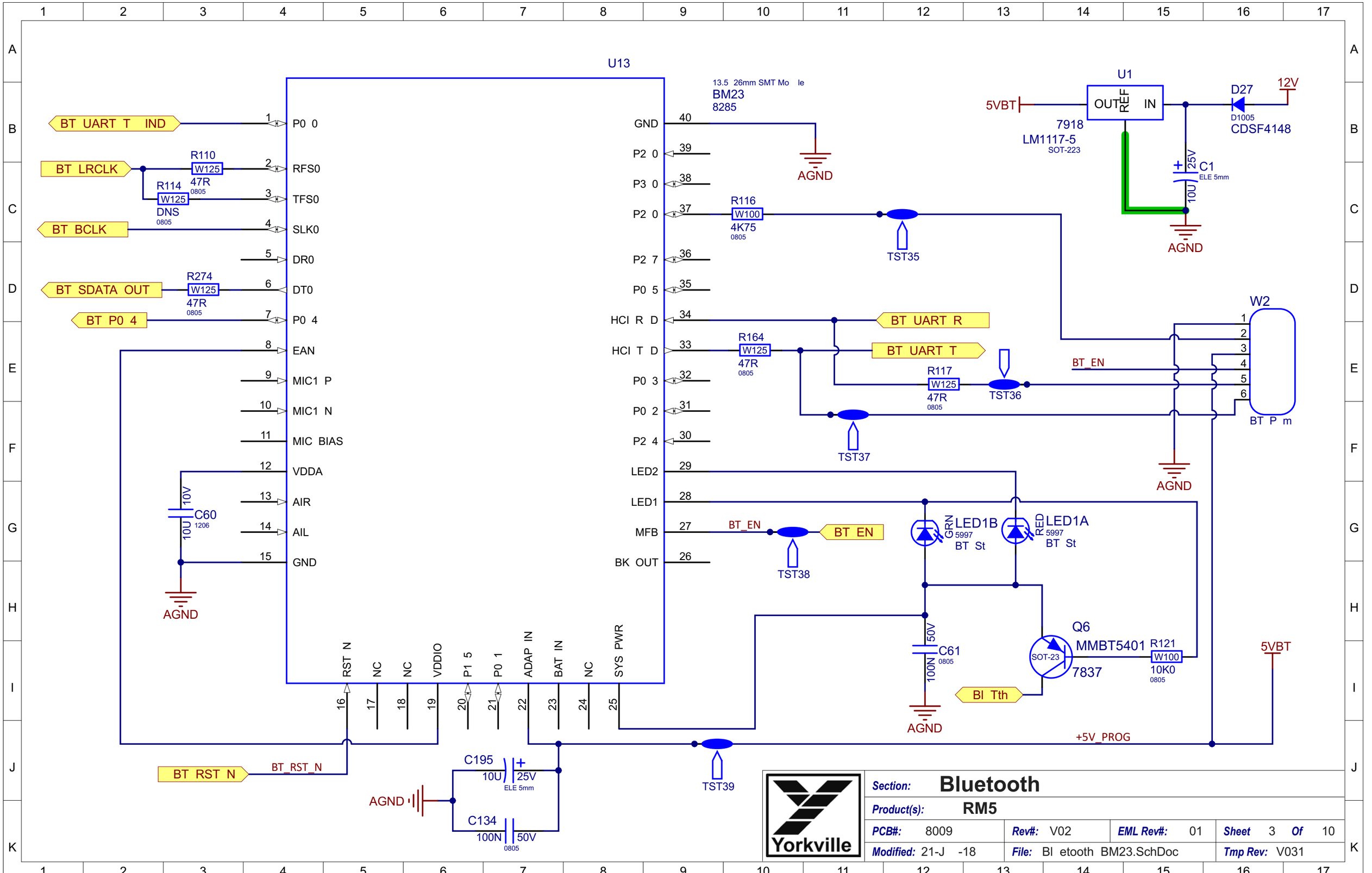


Section: **Preamp**

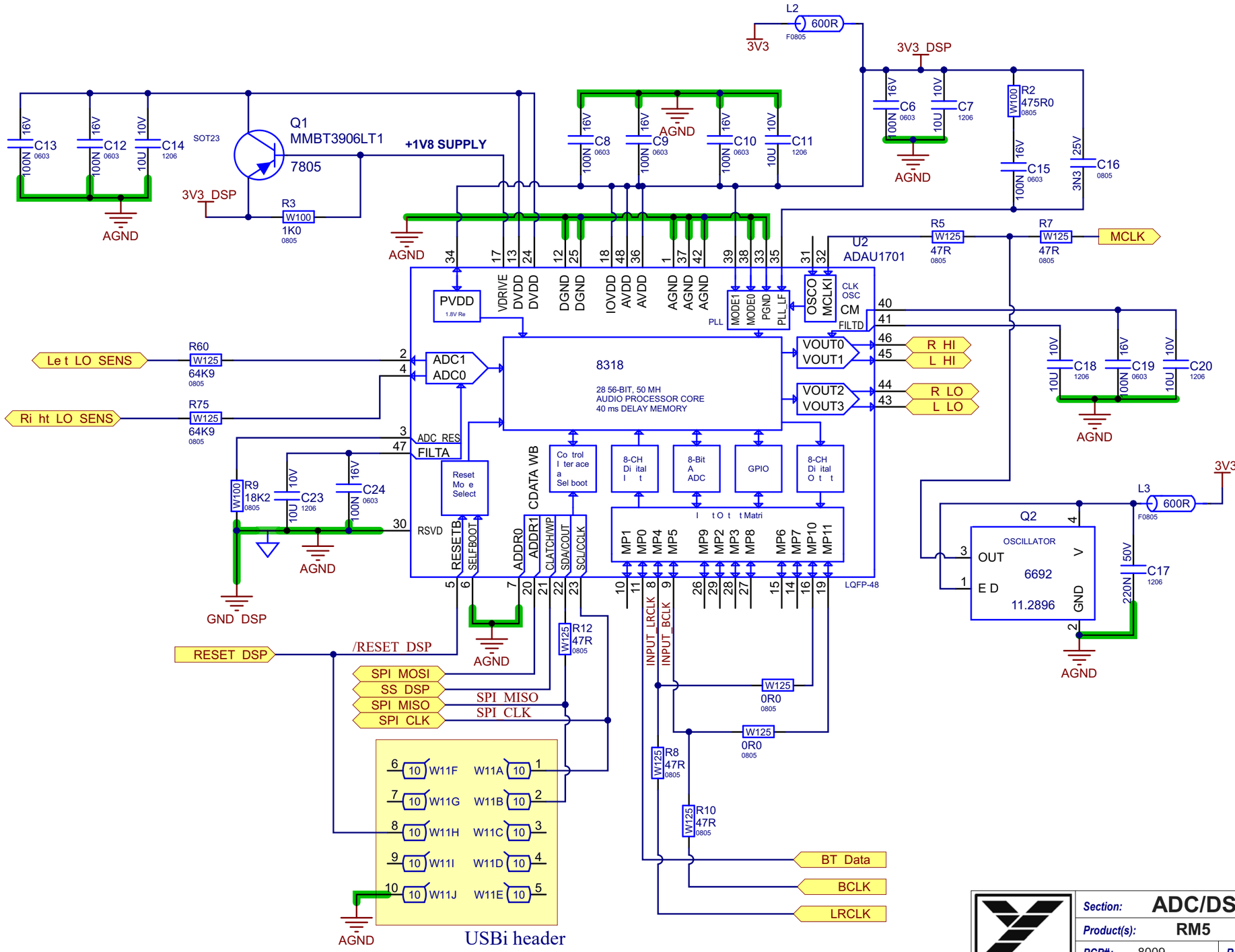
Product(s): **RM5**

PCB#: 8009	Rev#: V02	EML Rev#: 01	Sheet 2 Of 10
Modified: 21-J -18	File: Pream .SchDoc		Tmp Rev: V031

Yorkville



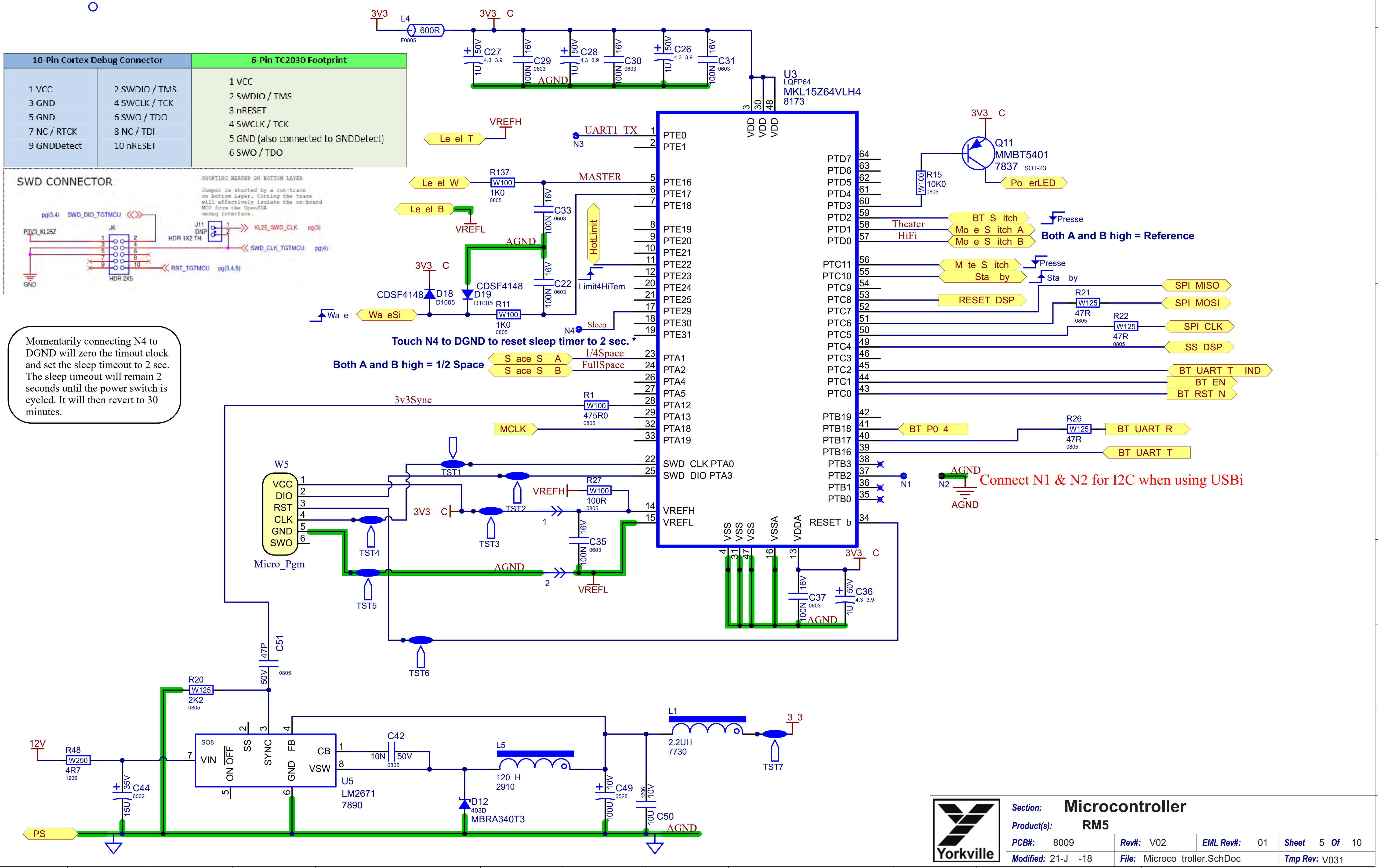
Section:	**Bluetooth**		
Product(s):	**RM5**		
PCB#: 8009	**Rev#:** V02	**EML Rev#:** 01	**Sheet** 3 **Of** 10
Modified: 21-J -18	**File:** Bl etooth BM23.SchDoc		**Tmp Rev:** V031



Section:	ADC/DSP				
Product(s):	RM5				
PCB#: 8009	Rev#: V02	EML Rev#: 01	Sheet 4 Of 10		
Modified: 21-J -18	File: DSP.SCHDOC		Tmp Rev: V031		

Microco troller

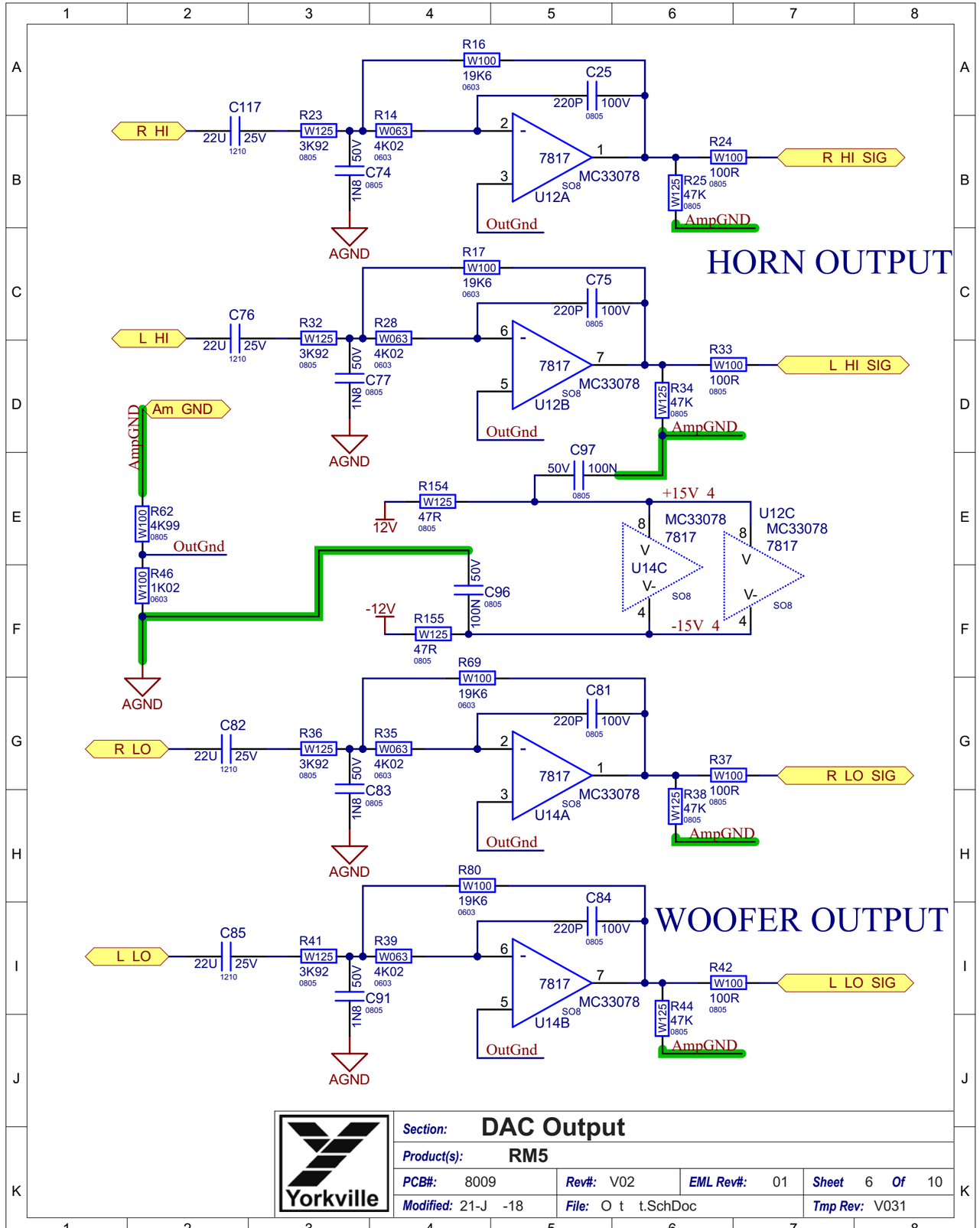
10-Pin Cortex Debug Connector		6-Pin TC2030 Footprint
1 VCC	2 SWDIO / TMS	1 VCC
3 GND	4 SWCLK / TCK	2 SWDIO / TMS
5 GND	6 SWO / TDO	3 nRESET
7 NC / RTCK	8 NC / TDI	4 SWCLK / TCK
9 GNDDetect	10 nRESET	5 GND (also connected to GNDDetect)
		6 SWO / TDO



Momentarily connecting N4 to DGND will zero the timout clock and set the sleep timeout to 2 sec. The sleep timeout will remain 2 seconds until the power switch is cycled. It will then revert to 30 minutes.

Section:	Microcontroller
Product(s):	RM5
PCB#: 8009	Rev#: V02
EML Rev#: 01	Sheet 5 Of 10
Modified: 21-J -18	File: Microco troller.SchDoc
Tmp Rev: V031	

Yorkville


HORN OUTPUT
WOOFER OUTPUT
R HI
L HI
R LO
L LO
R HI SIG
L HI SIG
R LO SIG
L LO SIG
Am GND
AmpGND
OutGnd
AGND
12V
-12V
+15V 4
-15V 4
R16 W100 19K6 0603
R17 W100 19K6 0603
R80 W100 19K6 0603
R69 W100 19K6 0603
C117 22U 25V 1210
C76 22U 25V 1210
C82 22U 25V 1210
C85 22U 25V 1210
R23 W125 3K92 0805
R32 W125 3K92 0805
R36 W125 3K92 0805
R41 W125 3K92 0805
R14 W063 4K02 0603
R28 W063 4K02 0603
R35 W063 4K02 0603
R39 W063 4K02 0603
C74 50V 1N8 0805
C77 50V 1N8 0805
C83 50V 1N8 0805
C91 50V 1N8 0805
C25 220P 100V 0805
C75 220P 100V 0805
C81 220P 100V 0805
C84 220P 100V 0805
C97 50V 100N 0805
C96 50V 100N 0805
R24 W100 100R 0805
R33 W100 100R 0805
R37 W100 100R 0805
R42 W100 100R 0805
R25 W125 47K 0805
R34 W125 47K 0805
R38 W125 47K 0805
R44 W125 47K 0805
R154 W125 47R 0805
R155 W125 47R 0805
R62 W100 4K99 0805
R46 W100 1K02 0603
7817 MC33078 SO8
U12A
U12B
U14A
U14B
U12C MC33078 7817
U14C
Section: DAC Output
Product(s): RM5
PCB#: 8009
Rev#: V02
EML Rev#: 01
Sheet 6 Of 10
Modified: 21-J -18
File: O t t.SchDoc
Tmp Rev: V031
Yorkville

FOR NA STUFF R19 AND R74
FOR CE STUFF R49

W1000 TERMINAL W9 — F1 3A15 2493 — 7.5 BLK 18AWG 36STND D I 2 3465

7.5 BLK 18AWG 36STND D I 2 3465 — W1000 TERMINAL W4

R19 W750 0R 2010 NA
R74 W750 0R 2010 NA
R49 0R 2010 CE

T4 1254

CDSF4148 D22 D1005 — +7v — C145 1000U RADIAL 35V — TST28 — SB
D17 D1005 CDSF4148
PSgnd — TST29 — GND
D20 D1005 CDSF4148 — C21 25V 1000U 8 8mm
D25 D1005 CDSF4148 — TST40 — SB -

W9 TERMINAL W1000
W4 TERMINAL W1000
IEC RECT-2 i 4210 J2

K1A RELAY 1A 4155

2 W6B
1 W6A 4093

BLK 120V
WHT 0V
120V
BLU 0V

GRY RED YEL RED GRY

4163

W7E 5 GRY
W7D 5 GRY
W7C 5 YEL
W7A 5 RED
W7B 5 RED

C2 4N7 250V

CHASSIS

NA CH1345
CE CH1345E

44V — C3 25V 6800U 16 35MM — TST30 — 22V

D1 S3D DO-214AB — D2 S3D DO-214AB
D3 S3D DO-214AB — D4 S3D DO-214AB

R76 W100 10K0 0805
R79 W100 10K0 0805

C4 25V 6800U 16 35MM — PS
GND — AmG — TST31

D5 S3D DO-214AB — D7 S3D DO-214AB
D8 S3D DO-214AB — D9 S3D DO-214AB

C5 25V 6800U 16 35MM

R85 W100 10K0 0805
R90 W100 10K0 0805

-44V — C38 25V 6800U 16 35MM — TST32 — -22V

+7v

R105 W100 4K75 0805
R118 W125 47K 0805
R126 W125 47K 0805
R104 W100 10K0 0805
R94 W100 4K75 0805
R106 W100 10K0 0805
R127 W125 47K 0805
R107 W100 4K75 0805
R98 W100 10K0 0805
R45 W125 47K 0805
R124 W100 4K75 0805
R112 W100 10K0 0805

TST41 — U6B 7661 LM393D — U6C
TST43 — TST42 — U6A 7661 LM393D — TST34 — U4A 7661 LM393D — U4B 7661 LM393D

Q4 SOT-23 MMBTA14LTIG 7701
U4C

R43 W100 18K2 0805
R31 W100 10K0 0805
HotLimit
LimitForHiTem

R130 W100 6K98 0805
R97 10K W063
R129 W100 4K75 0805

Sta by — Sta by
R108 W100 10K0 0805
D28 CDSF4148 D1005

R111 W100 1K0 0805
R128 W100 10K0 0805

4155 K1B RELAY 1A
D14 CDSF4148 D1005

GND

-20V UNMUTE
MUTE OFF

D10 CDSF4148 D1005
D11 CDSF4148 D1005

R13 W125 2K2 0805
D13 18V0 SOD-323
C40 1U 50V 4.3 3.9
R30 W100 10K0 0805
R29 W125 1M 0805
C39 4U7 25V Elec
Q3 SOT-23 MMBT5401 7837
Am M te — TST33 — M te

Section: Power Supply			
Product(s): RM5			
PCB#: 8009	Rev#: V02	EML Rev#: 01	Sheet 7 Of 10
Modified: 21-J -18	File: Po erS ly.SchDoc		Tmp Rev: V031

Yorkville

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	07-APR-2017	V01	.	RELEASED FOR PRODUCTION
2	01-SEP-2017	V02 1	.	Thermal circ it mo s. Cha e W8 9- i to 6- i l s W3 4- i or HotLimit si al to micro.
3	12-JUN-2018	V02	9242	U ate layo t PDF art mbers or C3, C4, C5 a C38 to YS#5863.
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THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section:	Design Information And History				
Product(s):	RM5				
PCB#:	8009	Rev#:	V02	EML Rev#:	01
Modified:	21-J -18	File:	History.SchDoc	Tmp Rev:	V031

PCB ASSEMBLY DOCUMENTATION

Cannot open file D:\RM5 AC RTV.jpg

SPECIAL PRODUCTION NOTES

1. Do ot be tra s ormer lea s o T1 YS# 1254.

2. A ly RTV to all tall ca s a a ro riate areas.

3. For North America (M1705) st R19 a R74.
   For CE (M1203) st R49 a o ot st R19 a R74.

4. Use i a c tter here ossible to se arate cb rom a el.

Cannot open file D:\RM5 IP RTV.jpg

PCB HARDWARE

SCREWS AND BOLTS	NUTS	STANDOFFS	MISCELLANEOUS

POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS

REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P1	LEVEL	4453	P40	9086
S1	MODE	4200	ROT3	9086
S2	O O	3522	.	9089
S3	BT Mo e	3439	.	9088
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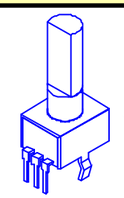


"STYLE_P32"

9089

9088

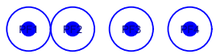
THIS SHEET CONTAINS SPECIAL PRODUCTION NOTES AND A LIST OF PCB HARDWARE PARTS REQUIRED FOR THE BUILD.

Yorkville

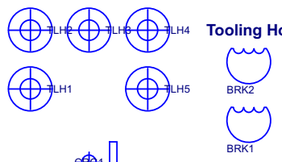
Section:	Assembly Documentation				
Product(s):	RM5				
PCB#: 8009		Rev#: V02	EML Rev#: 01	Sheet 9	Of 10
Modified: 21-J -18		File: Assembly.SchDoc		Tmp Rev: V031	

PANEL PARTS

Corners



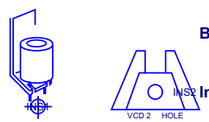
Panel Fiducials



Tooling Holes

Clinch Origin

M1705 *RM5*



BEC LOC

Insert Origin

Bla Si e - 285.000mm 152.000mm(11220 5984)

PCB Title

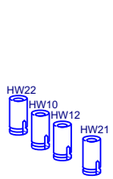
Ste & Re eat 1 1.234Y1 123.4

1

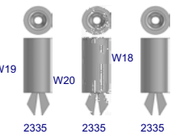
1.234

1

123.4



Room1
Fi ePitchU8
Room2
Fi ePitchU10
Room4
I oreAC 1



DOCUMENTATION

Blank PCB

PCB

AI Sub-Assembly

AI-ASSY

Room3
I oreAC

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

Yorkville	Section: ECAD Incidentals				
	Product(s): RM5				
	PCB#: 8009	Rev#: V02	EML Rev#: 01	Sheet 10 Of 10	
	Modified: 21-J -18	File: ECO.SchDoc		Tmp Rev: V031	

SEE ASSEMBLY NOTE 3.

BlankSize - 285.000mmX152.000mm(11220X5984)

Score

240VAC Replace with same type and rating fuse. T3.15

^_120VAC_^

RM5 2 of 4 Processing

RM5 Input Jacks

M1705 / M1203

V02 1 of 4

ATTENTION ELECTROSTATIC SENSITIVE DEVICE

© 2017 Yorkville

1254 Match -F i mbers to these # s 8 7 6 5

PowerSupply RM5 3 of 4 V02

M1705 V02 RM5

>---- Into Wave ----->

VCD

2mm Ra - 4 Places

M1705 / M1203 V02

PCB ASSEMBLY DOCUMENTATION

Cannot open file D:\RM5 AC RTV.jpg

SPECIAL PRODUCTION NOTES

1. Do ot be tra s ormer lea s o T1 YS# 1254.

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   For CE (M1203) st R49 a o ot st R19 a R74.

4. Use i a c tter here ossible to se arate cb rom a el.

Cannot open file D:\RM5 IP RTV.jpg

PCB HARDWARE

SCREWS AND BOLTS	*NUTS*	*STANDOFFS*	*MISCELLANEOUS*

POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS

REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
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S2	O O	3522	.	9089
S3	BT Mo e	3439	.	9088
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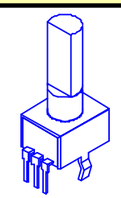

"STYLE_P32"

9089

9088

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

Yorkville

Section:	**Assembly Documentation**				
Product(s):	**RM5**				
PCB#: 8009		*Rev#:* V02	*EML Rev#:* 01	*Sheet* 1 *Of* 9	
Modified: 12-J -18		*File:* Assembly.SchDoc		*Tmp Rev:* V031	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	07-APR-2017	V01	.	RELEASED FOR PRODUCTION
2	01-SEP-2017	V02 1	.	Thermal circ it mo s. Cha e W8 9- i to 6- i l s W3 4- i or HotLimit si al to micro.
3	12-JUN-2018	V02	9242	U ate layo t PDF art mbers or C3, C4, C5 a C38 to YS#5863.
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THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section:	Design Information And History			
Product(s):	RM5			
PCB#: 8009	Rev#: V02	EML Rev#: 01	Sheet 9 Of 9	
Modified: 12-J -18	File: History.SchDoc		Tmp Rev: V031	

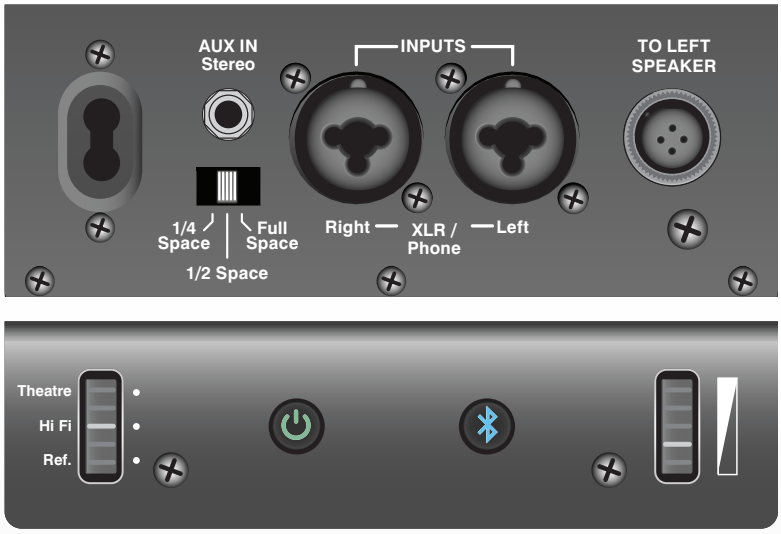
RM5

ADVANCED ACTIVE STUDIO MONITOR

Congratulations on your purchase of the ART RM5 advanced active studio monitors! Use this quick start guide to help you get up and running so you can enjoy your music with the exceptional clarity and impact that the RM5's will provide.

Mounting the Stands - (see image on reverse) Place the boxes face down on a soft surface to prevent scratching the front face. If mounting the stand without the spacer, use 4 x short 10-32 screws for each stand. Positioning the spacer on the top 2 mounting points will result in a monitor angle of 0 degrees.

Note: when using stand spacers, 2 long 10-32 screws must be used).



Balanced Left and Right Combi Jack Inputs - The Combi Jack Inputs allow line level sources such as passive mixer outputs, recording interface outputs or CD players to be connected.

AUX in Stereo Input - The stereo 1/8-inch Input allows digital media players (laptops, tablets and smart phones) to be connected.

Full Space, 1/2 Space, 1/4 Space Switch - This feature compensates for possible low frequency re-enforcement due to close proximity to walls. Place this switch in Full Space mode if the RM5's are not close to any walls. If the Monitors are placed close to a back wall, place this switch in the 1/2 Space mode. If the Monitors are placed close to both a back wall and a side wall, place this switch in 1/4 Space mode.

Standby/Power Switch - To turn the unit on, press this switch in, the green LED will illuminate.

Level - The level control adjusts the volume level of all inputs.

Mode Selector
Ref Mode - Measures flat across the frequency spectrum.
HiFi Mode - Boosted low end and enhanced highs make this mode ideal for general music listening.
Theatre Mode - Boosted low end and enhanced mids make this mode representative of the movie theatre experience.

Bluetooth™ Operation - If connecting to the unit for the first time, press and hold the Bluetooth™ switch for 4 seconds. Once you release, a new device will be able to connect to the RM5. When turning the unit on, The RM5 is in Bluetooth™ Linkback mode by default, which attempts to connect to previously connected devices. See the user manual for more detailed Bluetooth™ operation.

Auto Standby - If there is no signal on any of the inputs for more than 20 minutes, the unit will enter Standby Mode. Once signal is applied to any of the inputs, including Bluetooth™, the unit will immediately wake up.

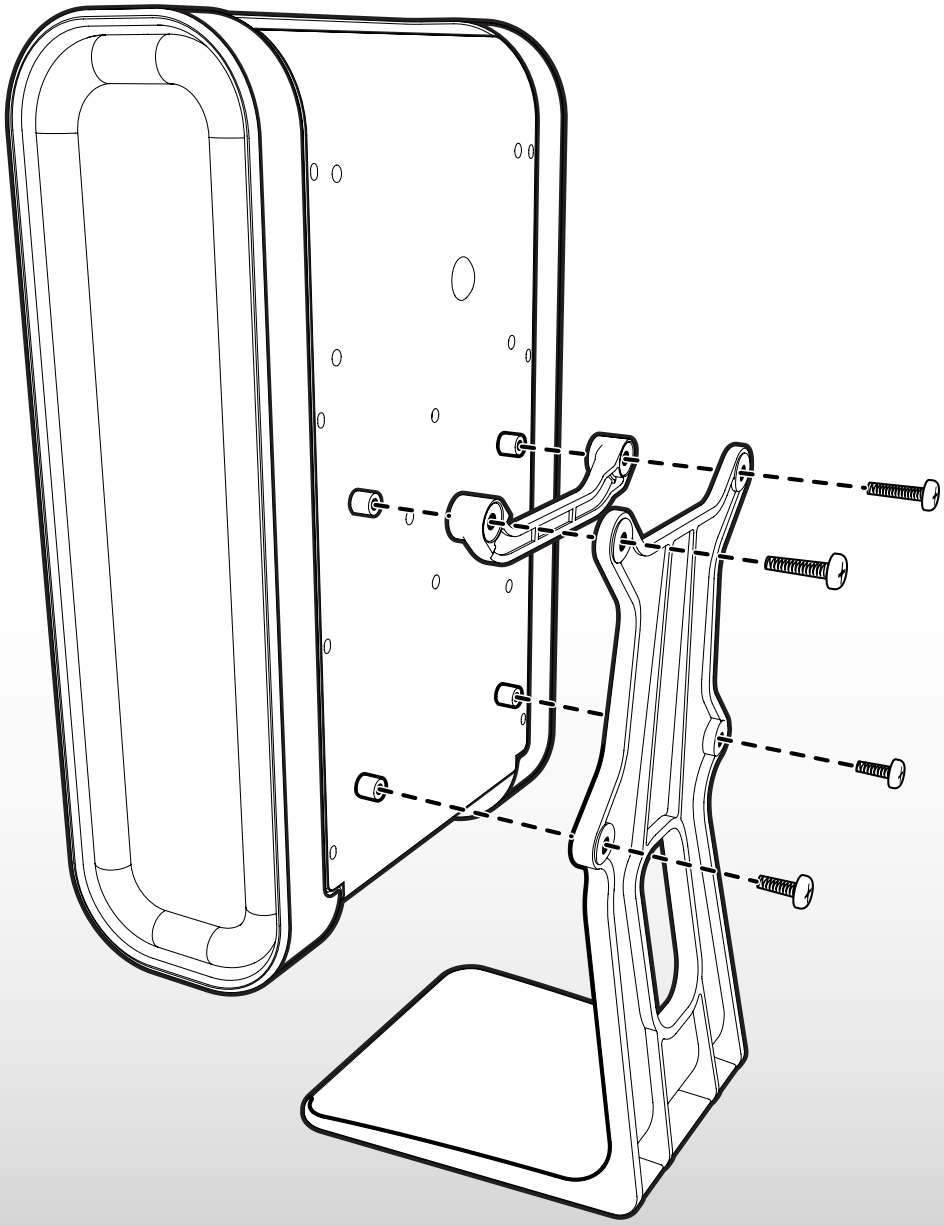
What's included

- 1 active RM5 unit
- 1 passive RM5 unit
- 2 aluminum Stands
- 1 IEC 8 foot Power Cable
- 1 four conductor 12 foot amp out cable
- 1 Allen key
- 8 short 10-32 screws (for mounting stands)
- 2 stand spacers (to change angle of stands)
- 4 long 10-32 screws (for use with spacers)

A R T

Designed & Distributed by: **APPLIED RESEARCH AND TECHNOLOGY** **www.artproaudio.com**

Printed In CANADA
QuickStart-ART-RM5-1v2-CAN • March 13, 2018



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**

A R T

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

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

www.yorkville.com