Yorkville

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Quality and Innovation Since 1963

Printed in Canada

Yorkville

SERVICE MANUAL

EXM 400

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-EXM400-00-1v4 ĚFeb 15/2022

IMPORTANT SAFETY INSTRUCTIONS

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

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

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

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

SEPARATE COLLECTION WEEE

CAUTION • AVIS

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

DO NOT PUSH OR PULL

IEC 60417-5041

CAUTION: HOT SURFACE
ATTENTION: SURFACE CHAUDE

NOT TO BE SERVICED BY USERS

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

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

CAUTION: OVERHEAD LOAD
ATTENTION: CHARGE AÉRIENNE

FOLLOW ALL INSTRUCTIONS

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

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

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

Cleaning: Clean only with dry cloth.

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

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

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

Power Sources

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

Hazards

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

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

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

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

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

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

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

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

Power Cord

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

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

Service

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

SUIVEZ TOUTES LES INSTRUCTIONS

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

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

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

Nettoyage: Nettoyez seulement avec le tissu sec.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

IMPORTANT SAFETY INSTRUCTIONS

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

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

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

WARNING:

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

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

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

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

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

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

AVERTISSEMENT:

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

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

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

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

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

EXM 400

Yorkville

www.yorkville.com

LEVEL · TONE · REVERB · TREBLE · BASS

Min · Max · - · +

Input 1 · Input 2

Clip

Line 3/4 · STEREO · MONO · L · BAL · R

Bluetooth™ · Off · On · Status

MASTER · Limit · SUB

Unit Assign · L · R · LINK

TRS CABLE ONLY

LINE OUT · L · R · BAL

Note: Make sure that one system is assigned Left and the other Right.

CAUTION • AVIS

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

POWER

On · Off

EXM400 · A-Z1604 / 1v2

230V ~ 50Hz 0,6A · *FUSE:* T1,25A

120VAC 60Hz 1.0A · *FUSE:* T2.5A

DESIGNED & MANUFACTURED BY
YORKVILLE SOUND • TORONTO, CANADA

CAUTION: REPLACE FUSE WITH SAME TYPE AND RATING

ATTENTION: REMPLACER LE FUSIBLE DU MEME TYPE ET DU MEME COURANT NOMINAL

THIS UNIT MUST BE GROUNDED!
CET APPAREIL DOIT ÊTRE MIS À LA TERRE!

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

Contains Transmitter Module
FCC ID: A8TBM23SPKXYC2A
Contains Transmitter Module
ID: 12246A-BM23SPKXYC2
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

LINK · L · R

STEREO (TWO SYSTEMS)

SPEAKER CABLE ONLY! · SPEAKER OUT · R

★ Use the EXM400SAT Extension Kit to double fullrange output!

SPKR OUT

STEREO (WITH EXTENSION)

EXM 400

Yorkville

www.yorkville.com

LEVEL · TONE · REVERB · TREBLE · BASS

Min · Max · - · +

Input 1 · Input 2

Clip

Line 3/4 · STEREO · MONO · L · R · BAL

Bluetooth™ · Off · On · Status

Unit Assign · LINK

MASTER · Limit

LINE OUT · L · R · BAL

POWER

On · Off

EXM400 REV2 · A-Z1604 / 1v3

230V ∿ 50Hz 0,6A — FUSE: T1,25A

120V ∿ 60Hz 1.0A — FUSE: T2.5A

CAUTION • AVIS

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

DESIGNED & MANUFACTURED BY
YORKVILLE SOUND • TORONTO, CANADA

CAUTION: REPLACE FUSE WITH THE SAME TYPE AND RATING

ATTENTION: REMPLACER LE FUSIBLE
DU MÊME TYPE ET DU MÊME COURANT NOMINAL

DISCONNECT POWER BEFORE SERVICING!

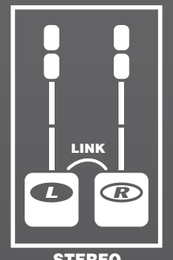
DEBRANCHER L'APPAREIL AVANT D'ENLEVER LES COUVERCLES!

THIS UNIT MUST BE GROUNDED!

CET APPAREIL DOIT ÊTRE MIS À LA TERRE!

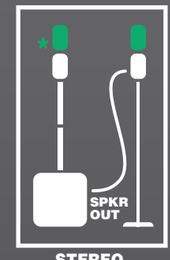
Contains Transmitter Module FCC ID: A8TBM23SPKXYC2A
Contains Transmitter Module ID: 12246A-BM23SPKXYC2
This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: Make sure that one system is assigned Left and the other Right.



STEREO (TWO SYSTEMS)

★ Use the EXM400SAT Extension Kit to double fullrange output!



STEREO (WITH EXTENSION)

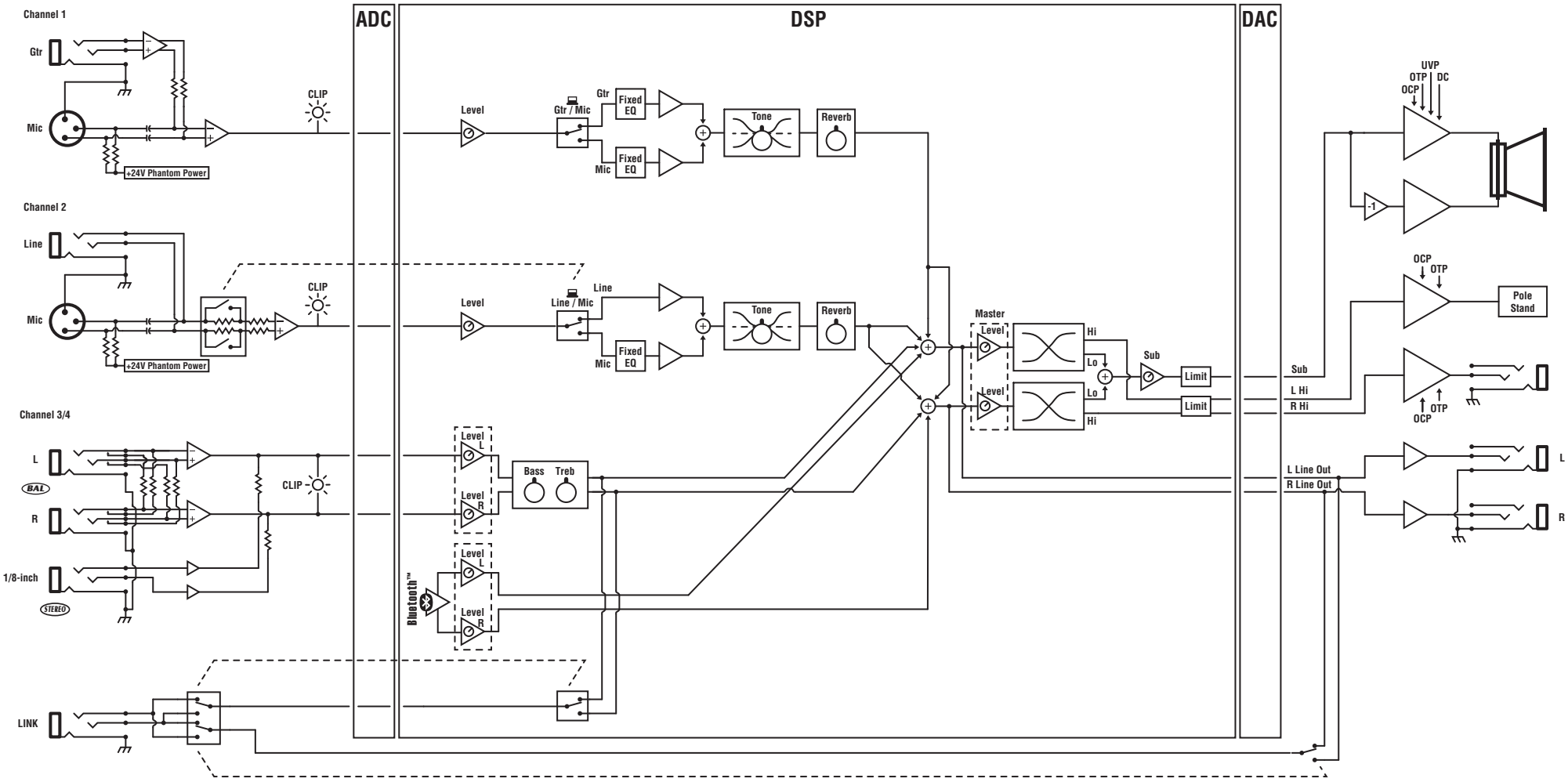
Specifications	
Model	EXM400
System Type	Compact PA
Active or Passive	Active
Program Power (watts)	400
Nominal Impedance (ohms)	4 (sub), 8 (satellites)
Frequency Response (Hz +/- 3db)	50Hz - 20kHz
Crossover Frequency (Hz)	240Hz
HF Driver(s)	2 x 3.5-inch per satellite
HF Program Power (watts)	75W per channel
HF Impedance (ohms)	8 ohms
HF Protection	Peak and RMS limiting
LF Program Power(watts)	250W
LF Impedance(ohms)	4 ohms
LF Protection	Peak and RMS limiting
HF Amplifier Type	Class AB Half Bridge
LF Power Amplifier (watts)	Class D Full Bridge
Cooling Scheme	Passive convection
Mixer Controls	Ch. 1 & 2: Level / Tone / Reverb Ch. 3/4 Level / Treble / Bass Bluetooth Level, Sub, Master
Dimensions (DWH xbackW, inches)	Base 14.5/15.5/14.5 [assembled system height 78-inches]
Dimensions (DWH xbackW, cm)	Base 36.8/39.3/36.8 [assembled system height 198-cm]
Weight (lbs/kg)	43/19.5

Spécifications	
Modèle	EXM400
Type de système	Système de sonorisation compact
Actif or Passif	Actif
Puissance Nominale (watts)	400
Impédance Nominale (ohms)	4 (caisson de basses), 8 (satellites)
Réponse en Fréquence (Hz +/- 3db)	50Hz - 20kHz
Fréquence de coupure (Hz)	240Hz
Haut-Parleur(s) HF	2 x 3.5-pouce par satellite
Puissance Nominale HF (watts)	75W par canal
Impédance HF (ohms)	8 ohms
Protection HF	Limiteur de Pointe et RMS
Puissance Nominale BF (watts)	250W
Impédance BF (ohms)	4 ohms
Protection BF	Limiteur de Pointe et RMS
Type d'Amplificateur HF	Class AB Half Bridge
Amplificateur de Puissance BF	Class D Full Bridge
Système de Refroidissement	Convection passive
Commandes du Mixeur	C. 1 & 2: Level / Tone / Reverb C. 3/4 Level / Treble / Bass Bluetooth Level, Sub, Master
Dimensions (PLH xarrièreL, pouces)	Base 14.5/15.5/14.5 [système assemblé - hauteur 78-pouces]
Dimensions (PLH xarrièreL, cm)	Base 36.8/39.3/36.8 [système assemblé - hauteur 198-cm]
Poids (livres/kg)	43/19.5

Block Diagram - EXM400

DESIGNED & MANUFACTURED BY YORKVILLE SOUND

TYPE :YS1113



M1566 07 PG1 Parts Reference List 8/5/2021

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
AI-ASS	M1566-59	EXM400 POWER AMP BOARD	C66		100N 50V 5%CAP 0805 SMT X7R	D7		MURS120T3 200V 1A DIO DO214AA SMT	Q3		MJD243T4G NPN DPAK3 SMT TS	R41		W125 47R 5% 0805 SMT RES
C1A		100N 100V 10%CAP 1206 SMT X7R	C67		1U0 50V 10%CAP 1206 SMT CER	D8A		MMBD1401 DIODE 0A2 SOT23 SMT	Q4		MJD243T4G NPN DPAK3 SMT TS	R42		W125 11K0 1% 0805 SMT RES
C1B		100N 100V 10%CAP 1206 SMT X7R	C68	5840	22N 400V 10%CAP BLK RAD POLY FLM	D8B		MMBD1401 DIODE 0A2 SOT23 SMT	Q9		MMBT3906LT1 PNP SOT-23 SMT T&R	R43		W125 10R0 1% 0805 SMT RES
C2A		150P 100V 5%CAP 0805 SMTNPO	C69	5840	22N 400V 10%CAP BLK RAD POLY FLM	D9A		MMBD1401 DIODE 0A2 SOT23 SMT	Q10		MMBT3906LT1 PNP SOT-23 SMT T&R	R44		W100 4R7 5% 0805 SMT RES
C2B		150P 100V 5%CAP 0805 SMTNPO	C70	5267	100U 25V 20%CAP T&R RAD .2EL	D9B		MMBD1401 DIODE 0A2 SOT23 SMT	Q11		MMBT3906LT1 PNP SOT-23 SMT T&R	R45		W250 1R 1% 0805 SMT RES
C3A	5260	22U 50V 20%CAP T&R RAD .2EL	C71		4U7 50V 10%CAP 1210 SMT CER	D10		MURS120T3 200V 1A DIO DO214AA SMT	Q12		MMBT3906LT1 PNP SOT-23 SMT T&R	R46		W125 47K5 1% 0805 SMT RES
C3B	5260	22U 50V 20%CAP T&R RAD .2EL	C72	6545	1N 250V 20%CAP BLK 'Y' 10MM AC	D11		CDSF4148 75V 0A15 1005 SMT	Q13		MMBT3904 NPN SOT-23 SMT	R47		W100 1K0 1% 0805 SMT RES
C4A		100N 100V 10%CAP 1206 SMT X7R	C73	6545	1N 250V 20%CAP BLK 'Y' 10MM AC	D12		MM3Z12VT1G 12V0 0W2 5% SMT ZEN	Q14		MMBT3904 NPN SOT-23 SMT	R48		W100 10K0 1% 0805 SMT RES
C4B		100N 100V 10%CAP 1206 SMT X7R	C74	5262	1U 275V 20%CAP BLK 'X2'26.0MM AC	D13		MURS120T3 200V 1A DIO DO214AA SMT	Q15		FDN5618 PCH MFET SOT-23 SMT	R49		W125 10R0 1% 0805 SMT RES
C5A		10N 50V 10%CAP 0805 SMT X7R	C75	5277	220P 200V 5%CAP T&R RAD CER.2NPO	D14		MURS120T3 200V 1A DIO DO214AA SMT	Q16	6786	IPP65R225C7 TO220 NCH MFET	R50		W125 180R 1% 0805 SMT RES
C5B		10N 50V 10%CAP 0805 SMT X7R	C76	5663	1200U 200V 20%CAP BLK 25X40MM	D15A		MMBD1401 DIODE 0A2 SOT23 SMT	Q17		TL431A 3 TERM ADJ VREG SMT SOT-23	R51		W100 15K0 1% 0805 SMT RES
C6	5260	22U 50V 20%CAP T&R RAD .2EL	C77	6545	1N 250V 20%CAP BLK 'Y' 10MM AC	D15B		MMBD1401 DIODE 0A2 SOT23 SMT	Q18	6786	IPP65R225C7 TO220 NCH MFET	R52		W100 100R 1% 0805 SMT RES
C7A		1U0 50V 10%CAP 1206 SMT CER	C78	6545	1N 250V 20%CAP BLK 'Y' 10MM AC	D16		CDSF4148 75V 0A15 1005 SMT	Q19		MMBT4401 NPN SOT-23 SMT	R53		W100 4R7 5% 0805 SMT RES
C7B		1U0 50V 10%CAP 1206 SMT CER	C79	5663	1200U 200V 20%CAP BLK 25X40MM	D17		CDSF4148 75V 0A15 1005 SMT	Q20		MC78M05BDTR POS REG SMT DPAK3	R54		W125 10R0 1% 0805 SMT RES
C8A	5942	3U3 100DC10%CAP BLK RAD POLYE FLM	C80		1U0 50V 10%CAP 1206 SMT CER	D18		CDSF4148 75V 0A15 1005 SMT	Q21		MMBT3906LT1 PNP SOT-23 SMT T&R	R55		W250 1R 1% 0805 SMT RES
C8B	5942	3U3 100DC10%CAP BLK RAD POLYE FLM	C81		100N 50V 5%CAP 0805 SMT X7R	D19		BZX84C43 43V0 0W3 5% SMT ZEN	Q22		MMBT4401 NPN SOT-23 SMT	R56		W100 4R7 5% 0805 SMT RES
C9		6N8 50V 5%CAP 1206 SMT X7R	C82		470N 50V 5%CAP 1206 SMT X7R	D20		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	Q25		MMBT3904 NPN SOT-23 SMT	R57		W125 24K9 1% 0805 SMT RES
C10		6N8 50V 5%CAP 1206 SMT X7R	C83		100N 50V 5%CAP 0805 SMT X7R	D21		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	Q26		MMBT3904 NPN SOT-23 SMT	R65		10K 5% THERMISTOR NTC 0603 SMT
C11		1N 50V 5%CAP 0805 SMT NPO	C84		10U 10V 10%CAP 1206 SMT X5R	D22		CDSF4148 75V 0A15 1005 SMT	Q27	6622	10R 20% THERMISTOR NTC	R66		W125 100K 5% 0805 SMT RES
C12		1N 50V 5%CAP 0805 SMT NPO	C85		150P 1000V 5%CAP 1206 SMT C0G	D23		CDSF4148 75V 0A15 1005 SMT	Q28		FDT3612 NCH MFET SOT-223 SMT	R67		W100 20K5 1% 0805 SMT RES
C13A		150P 100V 5%CAP 0805 SMTNPO	C86		4U7 50V 10%CAP 1210 SMT CER	D24		SBR10U200P5 200V 10A PDI5 SMT	Q29		MC79M05BDTR POS REG SMT DPAK3	R68		W125 698R 1% 0805 SMT RES
C13B		150P 100V 5%CAP 0805 SMTNPO	C87		470N 50V 5%CAP 1206 SMT X7R	D25		CDSF4148 75V 0A15 1005 SMT	Q30		MMBT3904 NPN SOT-23 SMT	R69		W125 100K 5% 0805 SMT RES
C14	5260	22U 50V 20%CAP T&R RAD .2EL	C88		10N 50V 10%CAP 0805 SMT X7R	D26		CDSF4148 75V 0A15 1005 SMT	Q31		MMBT3906LT1 PNP SOT-23 SMT T&R	R70		W125 100K 5% 0805 SMT RES
C15	5260	22U 50V 20%CAP T&R RAD .2EL	C89		10N 50V 10%CAP 0805 SMT X7R	D27		SBR10U200P5 200V 10A PDI5 SMT	Q32		MMBT3904 NPN SOT-23 SMT	R71		W100 4K99 1% 0805 SMT RES
C16A	5260	22U 50V 20%CAP T&R RAD .2EL	C90		100N 50V 5%CAP 0805 SMT X7R	D28		CDSF4148 75V 0A15 1005 SMT	R1A		W100 20K5 1% 0805 SMT RES	R72		W100 10K0 1% 0805 SMT RES
C16B	5260	22U 50V 20%CAP T&R RAD .2EL	C91		1N 50V 5%CAP 0805 SMT NPO	D29		BZX84B5V1 5V1 0W2 SOT-23 SMT ZEN	R1B		W100 20K5 1% 0805 SMT RES	R73		W125 3K32 1% 0805 SMT RES
C17	5260	22U 50V 20%CAP T&R RAD .2EL	C92		2N7 100V 10%CAP 0805 SMT C0G	D30		MURA240T3 400V 2A DIO 403D SMT	R2A		W100 10K0 1% 0805 SMT RES	R74		W125 100K 5% 0805 SMT RES
C18A		100N 100V 10%CAP 1206 SMT X7R	C93	5260	22U 50V 20%CAP T&R RAD .2EL	D31		ES1J 600V 1A0 DO214AC SMT SMA	R2B		W100 10K0 1% 0805 SMT RES	R75		W100 10K0 1% 0805 SMT RES
C18B		100N 100V 10%CAP 1206 SMT X7R	C94	9961	10N 500V 20%CAP RAD CER DISC BULK	D32		MURA240T3 400V 2A DIO 403D SMT	R3A		W125 5K36 1% 0805 SMT RES	R76		W100 10K0 1% 0805 SMT RES
C19A		100N 100V 10%CAP 1206 SMT X7R	C95		1U0 50V 10%CAP 1206 SMT CER	D33	6772	BRIDGE 25A 400V WIRE LEAD SIP	R3B		W125 5K36 1% 0805 SMT RES	R77		W100 10K0 1% 0805 SMT RES
C19B		100N 100V 10%CAP 1206 SMT X7R	C96	5260	22U 50V 20%CAP T&R RAD .2EL	D34		CDSF4148 75V 0A15 1005 SMT	R4A		W125 3K92 1% 0805 SMT RES	R78		W100 10K0 1% 0805 SMT RES
C20		10P 50V 10%CAP 0805 SMT NPO	C97	5260	22U 50V 20%CAP T&R RAD .2EL	D35		CDSF4148 75V 0A15 1005 SMT	R4B		W125 3K92 1% 0805 SMT RES	R79		W125 3K32 1% 0805 SMT RES
C21		150P 1000V 5%CAP 1206 SMT C0G	C98		100N 50V 5%CAP 0805 SMT X7R	D36		MM3Z12VT1G 12V0 0W2 5% SMT ZEN	R5A		W100 220R 1% 0603 SMT RES	R80		W125 47K5 1% 0805 SMT RES
C22A		100N 100V 10%CAP 1206 SMT X7R	C99		100N 50V 5%CAP 0805 SMT X7R	D37		SBR10U200P5 200V 10A PDI5 SMT	R5B		W100 220R 1% 0603 SMT RES	R81		W100 10K0 1% 0805 SMT RES
C22B		100N 100V 10%CAP 1206 SMT X7R	C100A	5240	680N 63V 10%CAP T&R RAD .2FLM	D38		SBR10U200P5 200V 10A PDI5 SMT	R6A		W500 10R 5% 1210 SMT RES	R82		W100 220R 1% 0603 SMT RES
C23A		100N 100V 10%CAP 1206 SMT X7R	C100B	5240	680N 63V 10%CAP T&R RAD .2FLM	D42		MMBZ5246B 16V0 0W35 5% SMT ZEN3	R6B		W500 10R 5% 1210 SMT RES	R83A	4734	5W00 3R9 5% BLK RES
C23B		100N 100V 10%CAP 1206 SMT X7R	C101		47P 100V 5%CAP 0805 SMT NPO	D43		CDSF4148 75V 0A15 1005 SMT	R7A		W250 22R 5% 1206 SMT RES	R83B	4734	5W00 3R9 5% BLK RES
C24		4U7 50V 10%CAP 1210 SMT CER	C102	5260	22U 50V 20%CAP T&R RAD .2EL	D44		CDBF0130L 30V 1A SCH SOD323F SMT	R7B		W250 22R 5% 1206 SMT RES	R86		W250 4R7 5% 1206 SMT RES
C25	5257	2U2 63V 20%CAP T&R RAD .2EL	C103	5199	100P 100V 2%CAP T&R RAD CER.2NPO	D45		BZX84B5V1 5V1 0W2 SOT-23 SMT ZEN	R8A		W250 22R 5% 1206 SMT RES	R87		W250 10R 5% 1206 SMT RES
C26		22U 16V 5%CAP 5X5.5 SMT ELC	C104	5199	100P 100V 2%CAP T&R RAD CER.2NPO	D46		CDSF4148 75V 0A15 1005 SMT	R8B		W250 22R 5% 1206 SMT RES	R88		W100 4K99 1% 0805 SMT RES
C27		100N 250V 10%CAP 1206 SMT X7R	C105		100N 50V 5%CAP 0805 SMT X7R	D49		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	R9		W125 3K32 1% 0805 SMT RES	R90		W250 10R 5% 1206 SMT RES
C28		1N 50V 5%CAP 0805 SMT NPO	C106		100N 50V 5%CAP 0805 SMT X7R	D51		MM3Z10VT1G 10V0 0W2 5% SMT ZEN	R10		W100 301R 1% 0805 SMT RES	R91		W250 10R 5% 1206 SMT RES
C29		100N 250V 10%CAP 1206 SMT X7R	C107		22U 16V 5%CAP 5X5.5 SMT ELC	D52		MM3Z10VT1G 10V0 0W2 5% SMT ZEN	R11A		W250 22R 5% 1206 SMT RES	R92		10K 5% THERMISTOR NTC 0805 SMT
C30		2N2 50V 10%CAP 0805 SMT X7R	C108		100N 250V 10%CAP 1206 SMT X7R	D53		CDBF0130L 30V 1A SCH SOD323F SMT	R11B		W250 22R 5% 1206 SMT RES	R94		W250 10R 5% 1206 SMT RES
C31	5827	150N 250V 20%CAP BLK 'X2' 15MM AC	C109		1N 50V 5%CAP 0805 SMT NPO	D54		MURS120T3 200V 1A DIO DO214AA SMT	R12		W125 100K 5% 0805 SMT RES	R95		W100 39R 5% 0805 SMT RES
C32		2N2 50V 10%CAP 0805 SMT X7R	C110		2N2 50V 10%CAP 0805 SMT X7R	D55		MURS120T3 200V 1A DIO DO214AA SMT	R13A		W500 10R 5% 1210 SMT RES	R96		W125 698R 1% 0805 SMT RES
C33		100N 250V 10%CAP 1206 SMT X7R	C111	5860	3300U 35V 20%CAP BLK 16X35.5MM EL	D56		MURS120T3 200V 1A DIO DO214AA SMT	R13B		W500 10R 5% 1210 SMT RES	R97		W250 4R7 5% 1206 SMT RES
C34		10U 16V 10%CAP 0805 SMT X6S	C112	5860	3300U 35V 20%CAP BLK 16X35.5MM EL	D57		MURS120T3 200V 1A DIO DO214AA SMT	R14A		W250 10R 5% 1206 SMT RES	R98		2W00 33R 1% 2512 SMT RES
C35		4U7 50V 10%CAP 1210 SMT CER	C113		2N2 50V 10%CAP 0805 SMT X7R	F1		FUSE SLOW 0A500 63VDC SMT 1206	R14B		W250 10R 5% 1206 SMT RES	R99		W250 1M0 1% 1206 SMT RES
C36		10U 25V 20%CAP 5X5.4 SMT EL	C114		100N 250V 10%CAP 1206 SMT X7R	F2		FUSE FAST 0A250 125V SMT 1206	R15A		W250 10R 5% 1206 SMT RES	R101		W250 10R 5% 1206 SMT RES
C37		22U 16V 5%CAP 5X5.5 SMT ELC	C115		100N 250V 10%CAP 1206 SMT X7R	HW8	6638	HEATSINK TO-220 W/TAB 13X25X29 BLK	R15B		W250 10R 5% 1206 SMT RES	R102		W125 1K800 0.1% 0805 SMT RES
C38	5267	100U 25V 20%CAP T&R RAD .2EL	C116		10U 16V 10%CAP 0805 SMT X6S	HW9	6638	HEATSINK TO-220 W/TAB 13X25X29 BLK	R16		W125 68R1 1% 0805 SMT RES	R103		2W00 33R 1% 2512 SMT RES
C39		100N 50V 5%CAP 0805 SMT X7R	C117		4U7 50V 10%CAP 1210 SMT CER	HW10	8865	4-40X5/16 PAN PH MS BO&W	R17		W100 100R 1% 0805 SMT RES	R104		W250 10R 5% 1206 SMT RES
C40A	5942	3U3 100DC10%CAP BLK RAD POLYE FLM	C118		10U 25V 20%CAP 5X5.4 SMT EL	HW11	8865	4-40X5/16 PAN PH MS BO&W	R18A		W125 5K36 1% 0805 SMT RES	R105		W100 10K0 1% 0805 SMT RES
C40B	5942	3U3 100DC10%CAP BLK RAD POLYE FLM	C119	5860	3300U 35V 20%CAP BLK 16X35.5MM EL	HW13	8701	4-40 KEPS NUT ZINC	R18B		W125 5K36 1% 0805 SMT RES	R107		W250 10R 5% 1206 SMT RES
C41		470N 50V 5%CAP 1206 SMT X7R	C120	5860	3300U 35V 20%CAP BLK 16X35.5MM EL	HW14	3501	COMPRESSION WASHER	R19		W100 100R 1% 0805 SMT RES	R108		W100 39R 5% 0805 SMT RES
C42	5260	22U 50V 20%CAP T&R RAD .2EL	C121	5267	100U 25V 20%CAP T&R RAD .2EL	HW15	3501	COMPRESSION WASHER	R20		W125 47K5 1% 0805 SMT RES	R109		W100 4K99 1% 0805 SMT RES
C43		270P 50V 5%CAP 0805 SMT NPO	C122	5267	100U 25V 20%CAP T&R RAD .2EL	HW16	8701	4-40 KEPS NUT ZINC	R21A		W250 10R 5% 1206 SMT RES	R110		W125 150K 5% 0805 SMT RES
C44		270P 50V 5%CAP 0805 SMT NPO	C123		100N 50V 5%CAP 0805 SMT X7R	K1	3105	RELAY 1C 10AMP DC12 030MA PC-C	R21B		W250 10R 5% 1206 SMT RES	R111		W125 150K 5% 0805 SMT RES
C45		47P 500V 10%CAP 1206 SMT C0G	C124		100N 50V 5%CAP 0805 SMT X7R	L1A	6537	20UH CHOKE TOROIDAL 0R042	R22		W250 22R 5% 1206 SMT RES	R113		W125 10K2 1% 0805 SMT RES
C46	5421	1N 630VDC 10%CAP BLK MPP	C125A		100N 50V 5%CAP 0805 SMT X7R	L1B	6537	20UH CHOKE TOROIDAL 0R042	R23A		W125 8K25 1% 0805 SMT RES	R114		W100 2K74 1% 0805 SMT RES
C47	5945	10U 63V 20%CAP T&R RAD .2EL	C125B		100N 50V 5%CAP 0805 SMT X7R	L2		FERRITE BEAD 95R @100MHZ 3518 SMT	R23B		W125 8K25 1% 0805 SMT RES	R115		W100 1K0 1% 0805 SMT RES
C48		100N 100V 10%CAP 1206 SMT X7R	C126A		1U0 50V 10%CAP 1206 SMT CER	L3	3101	15UH COIL VTM160-4 33T 19AWG	R24A		W125 3K32 1% 0805 SMT RES	R116		W100 18K2 1% 0805 SMT RES
C49		1N 50V 5%CAP 0805 SMT NPO	C126B		1U0 50V 10%CAP 1206 SMT CER	L4		FERRITE BEAD 95R @100MHZ 3518 SMT	R24B		W125 3K32 1% 0805 SMT RES	R117		W063 1K62 1% 0603 SMT RES
C50	6451	4N7 250V 20%CAP BLK 'Y' 10MM AC	C127	5193	470N 275V 10%CAP BLK X2 POLY FLM	L5		1000UH 10% COIL 12MM SMT	R25A		W125 3K92 1% 0805 SMT RES	R118		W250 10R 5% 1206 SMT RES
C51		1U0 50V 10%CAP 1206 SMT CER	C128		100N 100V 10%CAP 1206 SMT X7R	L6	6500	2700UH COIL COMMON MODE 7AMP	R25B		W125 3K92 1% 0805 SMT RES	R119		W250 10R 5% 1206 SMT RES
C52	5864	1000U 35V 20%CAP BLK 12X25MM EL	C129	5193	470N 275V 10%CAP BLK X2 POLY FLM	L7		FERRITE BEAD 95R @100MHZ 3518 SMT	R26		W100 15K0 1% 0805 SMT RES	R120		W100 2K74 1% 0805 SMT RES
C53		1U0 50V 10%CAP 1206 SMT CER	C130		100N 100V 10%CAP 1206 SMT X7R	L8	6500	2700UH COIL COMMON MODE 7AMP	R27		W100 100R 1% 0805 SMT RES	R121		W100 18K2 1% 0805 SMT RES
C54	5262	1U 275V 20%CAP BLK 'X2'26.0MM AC	C131		470N 50V 5%CAP 1206 SMT X7R	L9		220UH COIL 10X10MM SMT	R28		W100 1K0 1% 0805 SMT RES	R122		W250 10R 5% 1206 SMT RES
C55		470N 50V 5%CAP 1206 SMT X7R	C132		470N 50V 5%CAP 1206 SMT X7R	L10		220UH COIL 10X10MM SMT	R30		W100 4K99 1% 0805 SMT RES	R123		W250 10R 5% 1206 SMT RES
C56		1U0 50V 10%CAP 1206 SMT CER	D1A		MURS120T3 200V 1A DIO DO214AA SMT	L11		22UH 20% COIL 4A 12.5MM SMT	R31		W100 20K5 1% 0805 SMT RES	R124		1W00 2R0 1% 2512 SMT RES
C57	5864	1000U 35V 20%CAP BLK 12X25MM EL	D1B		MURS120T3 200V 1A DIO DO214AA SMT	L12		22UH 20% COIL 4A 12.5MM SMT	R32A		W250 22R 5% 1206 SMT RES	R125		W100 2K0 1% 0805 SMT RES
C58	6451	4N7 250V 20%CAP BLK 'Y' 10MM AC	D2A		MURS120T3 200V 1A DIO DO214AA SMT	LD1A		GRN CLR LED 2V0 20MA PLCC2 SMT	R32B		W250 22R 5% 1206 SMT RES	R126		W125 3K32 1% 0805 SMT RES
C59		100N 50V 5%CAP 0805 SMT X7R	D2B		MURS120T3 200V 1A DIO DO214AA SMT	LD1B		GRN CLR LED 2V0 20MA PLCC2 SMT	R34		W100 10K0 1% 0805 SMT RES	R127		W100 2K0 1% 0805 SMT RES
C60		1N 50V 5%CAP 0805 SMT NPO	D3A		MURS120T3 200V 1A DIO DO214AA SMT	LD2		GRN CLR LED 2V0 20MA PLCC2 SMT	R35		W125 10R0 1% 0805 SMT RES	R129		W125 1K47 1% 0805 SMT RES
C61		100N 50V 5%CAP 0805 SMT X7R	D3B		MURS120T3 200V 1A DIO DO214AA SMT	PCB1	X8023BLANK	2_OZ 2SD 76.23 SQIN 01PER EXM400	R36		W100 15K0 1% 0805 SMT RES	R130		W100 4K99 1% 0805 SMT RES
C62	5516	47N 2000V 10%CAP AXL POLYPROP BULK	D4A		MURS120T3 200V 1A DIO DO214AA SMT	Q1A		IRFS4620PBF NCH MFET D2PAK SMT TR	R37		W125 180R 1% 0805 SMT RES	R132		W125 11K0 1% 0805 SMT RES
C63		100N 50V 5%CAP 0805 SMT X7R	D4B		MURS120T3 200V 1A DIO DO214AA SMT	Q1B		IRFS4620PBF NCH MFET D2PAK SMT TR	R38		W100 4R7 5% 0805 SMT RES	R133		W125 1K5 5% 0805 SMT RES
C64	5199	100P 100V 2%CAP T&R RAD CER.2NPO	D5		MMSZ15T1G 15V 0W5 5% SMT ZEN	Q2A		IRFS4620PBF NCH MFET D2PAK SMT TR	R39		W100 100R 1% 0805 SMT RES	R134		10K 5% THERMISTOR NTC 0805 SMT
C65		10U 16V 10%CAP 1206 SMT X7R	D6		CDSF4148 75V 0A15 1005 SMT	Q2B		IRFS4620PBF NCH MFET D2PAK SMT TR	R40		W125 24K9 1% 0805 SMT RES	R135		W100 301R 1% 0805 SMT RES

M1566 07 PG2 Parts Reference List 8/5/2021

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
R136		W250 10R 5% 1206 SMT RES	TP5		TEST POINT MINIATURE SMT			
R137		W250 475R 1% 1206 SMT RES	TP6A		TEST POINT MINIATURE SMT			
R138		W250 10R 5% 1206 SMT RES	TP6B		TEST POINT MINIATURE SMT			
R139		W250 100K 5% 1206 SMT RES	TP7		TEST POINT MINIATURE SMT			
R144		W250 22R 5% 1206 SMT RES	TP8		TEST POINT MINIATURE SMT			
R145		W250 100K 5% 1206 SMT RES	TP9		TEST POINT MINIATURE SMT			
R146		W100 100R 1% 0805 SMT RES	TP11		TEST POINT MINIATURE SMT			
R147		W250 100K 5% 1206 SMT RES	TP12		TEST POINT MINIATURE SMT			
R148		W250 100K 5% 1206 SMT RES	TP13		TEST POINT MINIATURE SMT			
R149A		W100 12K1 1% 0603 SMT RES	TP14		TEST POINT MINIATURE SMT			
R149B		W100 12K1 1% 0603 SMT RES	TP15		TEST POINT MINIATURE SMT			
R150		W100 10K0 1% 0805 SMT RES	TP16		TEST POINT MINIATURE SMT			
R151		W125 47K5 1% 0805 SMT RES	TP17		TEST POINT MINIATURE SMT			
R152		W100 10K0 1% 0805 SMT RES	U1A		IRS2092S DIG AUDIO AMP SMT SOIC16N			
R153		W100 10K0 1% 0805 SMT RES	U1B		IRS2092S DIG AUDIO AMP SMT SOIC16N			
R155		W125 698R 1% 0805 SMT RES	U2		IR4321M DIG AUDIO AMP SMT PQFN22			
R158		W100 100R 1% 0805 SMT RES	U3		FOD814A OPTO-COUPLER 4P SMT IC			
R159		W125 3K32 1% 0805 SMT RES	U4		AD825 HS OPAMP JFET SO-8 SMT			
R160		W100 301R 1% 0805 SMT RES	U5		LNK304G OFFLINE SWITCH SMT SMD8B			
R161		W100 4K99 1% 0805 SMT RES	U6		TL431A 3 TERM ADJ VREG SMT SOT-23			
R162		W100 4K99 1% 0805 SMT RES	U7		UCC25600 RES MODE CTRL SMT SO8			
R163		W500 220K 5% 1210 SMT RES	U8		H11A1SM OPTO-COUPLER SMT 6PIN			
R164		W500 220K 5% 1210 SMT RES	U9		33078 DUAL OPAMP SMT SO-8			
R165		W250 22R 5% 1206 SMT RES	U10		ZXGD3005E6 DRIVER SMT SOT236			
R166		W125 0R 5% 0805 SMT RES	U11		ZXGD3005E6 DRIVER SMT SOT236			
R167		W100 1K0 1% 0805 SMT RES	U12		33078 DUAL OPAMP SMT SO-8			
R168		W125 100K 5% 0805 SMT RES	U13		IR4321M DIG AUDIO AMP SMT PQFN22			
R169		W100 4K99 1% 0805 SMT RES	W1	3417	6-32 SNAP IN SCREW TERM			
R170		W100 182K 1% 0805 SMT RES	W3	4151	4 PIN POWER PIN HEADER MALE POLZED			
R171		W100 4K99 1% 0805 SMT RES	W4	4160	3X2PIN 4.2MM RA HEADER VAL-U-LOK			
R172		W125 10R0 1% 0805 SMT RES	W6	4151	4 PIN POWER PIN HEADER MALE POLZED			
R173		W125 68K 5% 0805 SMT RES	W13	4244	2 POS HEADER ASSY (MALE) PCB MOUNT			
R174		W100 1K0 1% 0805 SMT RES	W17	2381	09 CIR XH-HEADER RA 0.098IN			
R176		W250 100K 5% 1206 SMT RES	X7	5299	24AWG SOLID SC WIR RAD JMP			
R177		W250 100K 5% 1206 SMT RES	X8	5299	24AWG SOLID SC WIR RAD JMP			
R178		W100 4K99 1% 0805 SMT RES	X9	5299	24AWG SOLID SC WIR RAD JMP			
R179		W125 1M 5% 0805 SMT RES	X13	5299	24AWG SOLID SC WIR RAD JMP			
R180		W100 20K5 1% 0805 SMT RES	ZD3		MM3Z18VT1G 18V0 0W2 5% SMT ZEN			
R182		W100 20K5 1% 0805 SMT RES						
R183		W100 10K0 1% 0805 SMT RES						
R184		W100 100R 1% 0805 SMT RES						
R186A		W125 47K5 1% 0805 SMT RES						
R186B		W125 47K5 1% 0805 SMT RES						
R187A		1W00 1R0 5% 2512 SMT RES						
R187B		1W00 1R0 5% 2512 SMT RES						
R188		W100 4K99 1% 0805 SMT RES						
R189		W100 20K5 1% 0805 SMT RES						
R190		W125 47K5 1% 0805 SMT RES						
R191		W125 47R 5% 0805 SMT RES						
R192		W100 1K0 1% 0805 SMT RES						
R193		W100 20K5 1% 0805 SMT RES						
R194		W100 301R 1% 0805 SMT RES						
R195		W100 4K99 1% 0805 SMT RES						
R196		W125 34K0 1% 0805 SMT RES						
R197		W063 1K37 1% 0603 SMT RES						
R198		W100 20K5 1% 0805 SMT RES						
R199		W125 64K9 1% 0805 SMT RES						
R200		W063 1K37 1% 0603 SMT RES						
R201		W063 1K37 1% 0603 SMT RES						
R202		W100 4K99 1% 0805 SMT RES						
R203		W100 4K99 1% 0805 SMT RES						
R204		W100 4K99 1% 0805 SMT RES						
R205		W100 4K99 1% 0805 SMT RES						
R206		W100 10K0 1% 0805 SMT RES						
R207		W100 4K99 1% 0805 SMT RES						
R208		W100 4K99 1% 0805 SMT RES						
R209		W100 4K99 1% 0805 SMT RES						
R210		W100 10K0 1% 0805 SMT RES						
R211		W100 100R 1% 0805 SMT RES						
R220		1W00 10R 5% 2512 SMT RES						
R221		1W00 10R 5% 2512 SMT RES						
R224		W100 10K0 1% 0805 SMT RES						
R227		W100 10K0 1% 0805 SMT RES						
SNL1	8370	1 MIL POLYIMIDE LABEL, 1" X .380"						
T1		XF3955 GATE DRIVE XFMR SMT						
T2	1231	XFMR O/P 400W +/-24V ETD34						
T3		XF3955 GATE DRIVE XFMR SMT						
TP2		TEST POINT MINIATURE SMT						
TP3		TEST POINT MINIATURE SMT						
TP4		TEST POINT MINIATURE SMT						

M1567-04 PG1 Parts Reference List 1/21/2022

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
A1-ASS	M1567-59	EXM400 PRE-AMP BOARD	C64		_10U 16V 20%CAP SMT ELC	C143		180P 50V 5%CAP 0805 SMT NPO	D15		CDSF4148 75V 0A15 1005 SMT	R44		W100 100R 1% 0805 SMT RES
C1		100N 16V 10%CAP 0603 SMT X7R	C65		_47P 50V 5%CAP 0805 SMT NPO	C144		_1N5 50V 5%CAP 0805 SMT NPO	D16		CDSF4148 75V 0A15 1005 SMT	R45		W063 49R9 1% 0603 SMT RES
C2		100N 16V 10%CAP 0603 SMT X7R	C66		_47P 50V 5%CAP 0805 SMT NPO	C145		180P 50V 5%CAP 0805 SMT NPO	D17		CDSF4148 75V 0A15 1005 SMT	R46		W125 5K36 1% 0805 SMT RES
C3		100N 16V 10%CAP 0603 SMT X7R	C67A		100P 50V 10%CAP 0805 SMT NPO	C146		180P 50V 5%CAP 0805 SMT NPO	D18		CDSF4148 75V 0A15 1005 SMT	R47		W125 5K36 1% 0805 SMT RES
C4		100N 16V 10%CAP 0603 SMT X7R	C67B		100P 50V 10%CAP 0805 SMT NPO	C147		_1N5 50V 5%CAP 0805 SMT NPO	F1		FUSE FAST 0A250 125V SMT 1206	R54		W100 100R 1% 0805 SMT RES
C5		100N 16V 10%CAP 0603 SMT X7R	C68		100N 50V 5%CAP 0805 SMT X7R	C148		180P 50V 5%CAP 0805 SMT NPO	F2		FUSE FAST 0A375 125V SMT 1206	R55		W125 5K36 1% 0805 SMT RES
C6		100N 16V 10%CAP 0603 SMT X7R	C69		330P 50V 5%CAP 0805 SMT NPO	C149		180P 50V 5%CAP 0805 SMT NPO	J1	4182	1/4INJCK PCB MT VT ST RTS SW NJ6	R56		W125 5K36 1% 0805 SMT RES
C7		100N 16V 10%CAP 0603 SMT X7R	C70		_10U 16V 20%CAP SMT ELC	C150		_1N5 50V 5%CAP 0805 SMT NPO	J3	4090	1/4IN &XLR PCB MT VERT COMBO NCJ6-V	R57A		W100 4K99 1% 0805 SMT RES
C8		100N 16V 10%CAP 0603 SMT X7R	C71		330P 50V 5%CAP 0805 SMT NPO	C151		180P 50V 5%CAP 0805 SMT NPO	J4	4090	1/4IN &XLR PCB MT VERT COMBO NCJ6-V	R57B		W100 4K99 1% 0805 SMT RES
C9		100N 16V 10%CAP 0603 SMT X7R	C72		470P 50V 5%CAP 0603 SMT NPO	C152		180P 50V 5%CAP 0805 SMT NPO	J5	3921	1/4" JCK PCB MT VERT STER RT SWT	R58A		W125 1K02 0.1% 0805 SMT RES
C10		100N 16V 10%CAP 0603 SMT X7R	C73		_4U7 50V 10%CAP 1210 SMT CER	C153		_1N5 50V 5%CAP 0805 SMT NPO	J6	3921	1/4" JCK PCB MT VERT STER RT SWT	R58B		W125 1K02 0.1% 0805 SMT RES
C11		100N 16V 10%CAP 0603 SMT X7R	C74		_47P 50V 5%CAP 0805 SMT NPO	C154		100U 25V 20%CAP 8X5.4 SMT ELE	J7	4186	3.5MM JCK PCB MT VERT ST	R59		W100 27K4 1% 0805 SMT RES
C12		100N 16V 10%CAP 0603 SMT X7R	C75		_47U 35V 20%CAP 6.3MM SMT ELE	C155		330P 50V 5%CAP 0805 SMT NPO	J8	3921	1/4" JCK PCB MT VERT STER RT SWT	R60		W100 100R 1% 0805 SMT RES
C13		100N 16V 10%CAP 0603 SMT X7R	C76		100N 16V 10%CAP 0603 SMT X7R	C156		100N 50V 5%CAP 0805 SMT X7R	J9	3921	1/4" JCK PCB MT VERT STER RT SWT	R61A		W125 562R0 1% 0805 SMT RES
C14		100N 16V 10%CAP 0603 SMT X7R	C77		_47P 50V 5%CAP 0805 SMT NPO	C157		100N 50V 5%CAP 0805 SMT X7R	J11	4182	1/4INJCK PCB MT VT ST RTS SW NJ6	R61B		W125 562R0 1% 0805 SMT RES
C15		100N 16V 10%CAP 0603 SMT X7R	C78		100P 50V 10%CAP 0805 SMT NPO	C158		470P 50V 5%CAP 0603 SMT NPO	L1		FERRITE BEAD 600R @100MHZ 0805 SMT	R62A		W100 10K0 1% 0805 SMT RES
C16		100N 16V 10%CAP 0603 SMT X7R	C79		330P 50V 5%CAP 0805 SMT NPO	C159		_4U7 50V 10%CAP 1210 SMT CER	L2		_47UH COIL FER CORE 10MMSQ SMT	R62B		W100 10K0 1% 0805 SMT RES
C17		_10U 16V 20%CAP SMT ELC	C80		100N 50V 5%CAP 0805 SMT X7R	C160		180P 50V 5%CAP 0805 SMT NPO	L3		220UH COIL 10X10MM SMT	R63A		W100 301R 1% 0805 SMT RES
C18		_10U 16V 20%CAP SMT ELC	C81		100N 50V 5%CAP 0805 SMT X7R	C161		100U 25V 20%CAP 8X5.4 SMT ELE	L4		120.0UH COIL A34 1R6 SMT	R63B		W100 301R 1% 0805 SMT RES
C19		_10U 16V 20%CAP SMT ELC	C82		100N 50V 5%CAP 0805 SMT X7R	C162		100N 16V 10%CAP 0603 SMT X7R	L5		_2.2UH COIL SMT	R64A		W100 10K0 1% 0805 SMT RES
C20		_10U 16V 20%CAP SMT ELC	C83		180P 50V 5%CAP 0805 SMT NPO	C163		_10U 16V 20%CAP SMT ELC	LD1		RD/GN LED 2V1 20MA 0805 SMT	R64B		W100 10K0 1% 0805 SMT RES
C21		_33N 50V 5%CAP 0805 SMT X7R	C84		_10U 16V 20%CAP SMT ELC	C164		__1U 50V 20%CAP 4.3X3.9 SMT ELC	LD2		BL/RD LED 2V1 20MA 0805 SMT	R65A		W100 10K0 1% 0805 SMT RES
C22		_1N5 50V 5%CAP 0805 SMT NPO	C85		100P 50V 10%CAP 0805 SMT NPO	C165		__1U 50V 20%CAP 4.3X3.9 SMT ELC	LD3		RD/GN LED 2V1 20MA 0805 SMT	R65B		W100 10K0 1% 0805 SMT RES
C23		330P 50V 5%CAP 0805 SMT NPO	C86		220N 50V 10%CAP 1206 SMT X7R	C166		100N 16V 10%CAP 0603 SMT X7R	LD4		BL/RD LED 2V1 20MA 0805 SMT	R66A		W125 47R 5% 0805 SMT RES
C24		100P 50V 10%CAP 0805 SMT NPO	C87		100N 16V 10%CAP 0603 SMT X7R	C167		_10U 16V 20%CAP SMT ELC	LD5		RD/GN LED 2V1 20MA 0805 SMT	R66B		W125 47R 5% 0805 SMT RES
C25A		_3N3 25V 5%CAP 0805 SMT NPO	C88		100N 16V 10%CAP 0603 SMT X7R	C168		_10U 16V 20%CAP SMT ELC	LD6		RD/GN LED 2V1 20MA 0805 SMT	R67A		W100 10K0 1% 0805 SMT RES
C25B		_3N3 25V 5%CAP 0805 SMT NPO	C89		100N 50V 5%CAP 0805 SMT X7R	C169		100N 16V 10%CAP 0603 SMT X7R	LD7		RED LED 2V2 20MA PLCC2 SMT	R67B		W100 10K0 1% 0805 SMT RES
C26A		_3N3 25V 5%CAP 0805 SMT NPO	C90		100N 50V 5%CAP 0805 SMT X7R	C170		_47U 35V 20%CAP 6.3MM SMT ELE	LD8		BL/RD LED 2V1 20MA 0805 SMT	R68A		W125 1K02 0.1% 0805 SMT RES
C26B		_3N3 25V 5%CAP 0805 SMT NPO	C91		330P 50V 5%CAP 0805 SMT NPO	C171A		10U 16V 20%CAP SMT ELC	LD10		BL/RD LED 2V1 20MA 0805 SMT	R68B		W125 1K02 0.1% 0805 SMT RES
C27		22U 16V 20%CAP 5X5.5 SMT ELC	C92		_10U 16V 20%CAP SMT ELC	C171B		10U 16V 20%CAP SMT ELC	P1A	4462	_50K BLIN 9MM P32	R69		W100 27K4 1% 0805 SMT RES
C28		_3N3 25V 5%CAP 0805 SMT NPO	C93		330P 50V 5%CAP 0805 SMT NPO	C172		330P 50V 5%CAP 0805 SMT NPO	P1B	4462	_50K BLIN 9MM P32	R70		W100 100R 1% 0805 SMT RES
C29		22U 16V 20%CAP 5X5.5 SMT ELC	C94		100N 50V 5%CAP 0805 SMT X7R	C173		330P 50V 5%CAP 0805 SMT NPO	P2A	4462	_50K BLIN 9MM P32	R71A		W125 562R0 1% 0805 SMT RES
C30		10U 16V 20%CAP SMT ELC	C95		100N 50V 5%CAP 0805 SMT X7R	C174		100N 16V 10%CAP 0603 SMT X7R	P2B	4462	_50K BLIN 9MM P32	R71B		W125 562R0 1% 0805 SMT RES
C31		10U 16V 20%CAP SMT ELC	C96		100N 16V 10%CAP 0603 SMT X7R	C175		10U 16V 20%CAP SMT ELC	P3A	4461	10K BLIN 9MM DETENT P32	R72A		W100 10K0 1% 0805 SMT RES
C32		10U 16V 20%CAP SMT ELC	C97		10U 10V 10%CAP 1206 SMT X5R	C176		__1U 50V 20%CAP 4.3X3.9 SMT ELC	P3B	4461	10K BLIN 9MM DETENT P32	R72B		W100 10K0 1% 0805 SMT RES
C33		10U 16V 20%CAP SMT ELC	C98		100N 16V 10%CAP 0603 SMT X7R	C177		__1U 50V 20%CAP 4.3X3.9 SMT ELC	P4	4462	_50K BLIN 9MM P32	R73A		W100 10K0 1% 0805 SMT RES
C34		10U 16V 20%CAP SMT ELC	C99		100N 16V 10%CAP 0603 SMT X7R	C178		330P 50V 5%CAP 0805 SMT NPO	P5	4461	10K BLIN 9MM DETENT P32	R73B		W100 10K0 1% 0805 SMT RES
C35		10N 50V 10%CAP 0805 SMT X7R	C100		_10U 10V 10%CAP 1206 SMT X5R	C179		100N 16V 10%CAP 0603 SMT X7R	P6	4461	10K BLIN 9MM DETENT P32	R74A		W125 47R 5% 0805 SMT RES
C36		22U 25V 20%CAP 1210 SMT X7R	C101		100N 16V 10%CAP 0603 SMT X7R	C180		100N 16V 10%CAP 0603 SMT X7R	P7	4462	_50K BLIN 9MM P32	R74B		W125 47R 5% 0805 SMT RES
C37		22U 16V 20%CAP 5X5.5 SMT ELC	C102		100N 16V 10%CAP 0603 SMT X7R	C181		100N 50V 5%CAP 0805 SMT X7R	P8	4461	10K BLIN 9MM DETENT P32	R75A		W125 1M 5% 0805 SMT RES
C38		22U 25V 20%CAP 1210 SMT X7R	C103		_10U 10V 10%CAP 1206 SMT X5R	C182		10U 16V 20%CAP SMT ELC	P9	4462	_50K BLIN 9MM P32	R75B		W125 1M 5% 0805 SMT RES
C39		470P 50V 5%CAP 0603 SMT NPO	C104		100N 16V 10%CAP 0603 SMT X7R	C183		_10U 16V 20%CAP SMT ELC	PCB1	M1567BLANK	1_OZ 2SD 60.75SQIN 01PER EXM400	R76A		W100 15K0 1% 0805 SMT RES
C40		_22N 50V 10%CAP 0805 SMT X7R	C105		100N 16V 10%CAP 0603 SMT X7R	C184		100P 50V 10%CAP 0805 SMT NPO	Q1		DSS5240T 40V PNP SOT-23 SMT	R76B		W100 15K0 1% 0805 SMT RES
C41		100U 10V 20%CAP 3528 SMT TNT	C106		_10U 16V 20%CAP SMT ELC	C185		470P 50V 5%CAP 0603 SMT NPO	Q2		MMBTA64LT1G PNP DARL SOT-23 SMT	R77A		W125 1K02 0.1% 0805 SMT RES
C42		100N 50V 5%CAP 0805 SMT X7R	C107		100N 16V 10%CAP 0603 SMT X7R	C186		10U 16V 20%CAP SMT ELC	Q4A		MMBT3906LT1 PNP SOT-23 SMT T&R	R77B		W125 1K02 0.1% 0805 SMT RES
C43		100N 50V 5%CAP 0805 SMT X7R	C108		_10U 16V 20%CAP SMT ELC	C187		_10U 16V 20%CAP SMT ELC	Q4B		MMBT3906LT1 PNP SOT-23 SMT T&R	R78A		W125 1K800 0.1% 0805 SMT RES
C44		22U 16V 20%CAP 5X5.5 SMT ELC	C109		_10U 16V 20%CAP SMT ELC	C188		470P 50V 5%CAP 0603 SMT NPO	Q5A		MMBTA14 NPN DARL SOT-23 SMT	R78B		W125 1K800 0.1% 0805 SMT RES
C45A		100P 50V 10%CAP 0805 SMT NPO	C110		_10N 50V 10%CAP 0805 SMT X7R	C189		100N 16V 10%CAP 0603 SMT X7R	Q5B		MMBTA14 NPN DARL SOT-23 SMT	R79A		W125 1M 5% 0805 SMT RES
C45B		100P 50V 10%CAP 0805 SMT NPO	C111		100N 50V 5%CAP 0805 SMT X7R	C190		100N 16V 10%CAP 0603 SMT X7R	Q6		MMBTA14 NPN DARL SOT-23 SMT	R79B		W125 1M 5% 0805 SMT RES
C46		22U 16V 20%CAP 5X5.5 SMT ELC	C112		22U 25V 20%CAP 1210 SMT X7R	C191		100N 16V 10%CAP 0603 SMT X7R	Q7		MC78M05BDTR POS REG SMT DPAK3	R80A		W125 150K 5% 0805 SMT RES
C47		22U 16V 20%CAP 5X5.5 SMT ELC	C113		__1U 50V 20%CAP 4.3X3.9 SMT ELC	C192		100N 50V 5%CAP 0805 SMT X7R	R2		W100 220K 5% 0603 SMT RES	R80B		W125 150K 5% 0805 SMT RES
C48A		10U 16V 20%CAP SMT ELC	C114		__1U 50V 20%CAP 4.3X3.9 SMT ELC	C193		100N 50V 5%CAP 0805 SMT X7R	R3		W100 220K 5% 0603 SMT RES	R81		W100 15K0 1% 0805 SMT RES
C48B		10U 16V 20%CAP SMT ELC	C115		__1U 50V 20%CAP 4.3X3.9 SMT ELC	C194		330P 50V 5%CAP 0805 SMT NPO	R4		W100 220K 5% 0603 SMT RES	R82		W125 562R0 1% 0805 SMT RES
C49A		47P 50V 5%CAP 0805 SMT NPO	C116		100N 50V 5%CAP 0805 SMT X7R	C195		_10U 16V 20%CAP SMT ELC	R6		W100 100R 1% 0805 SMT RES	R83		W100 4K99 1% 0805 SMT RES
C49B		47P 50V 5%CAP 0805 SMT NPO	C117		100N 16V 10%CAP 0603 SMT X7R	C196		__1U 50V 20%CAP 4.3X3.9 SMT ELC	R7		W063 49R9 1% 0603 SMT RES	R84		W100 10K0 1% 0805 SMT RES
C50A		10N 50V 10%CAP 0805 SMT X7R	C118		100N 16V 10%CAP 0603 SMT X7R	C197		100N 16V 10%CAP 0603 SMT X7R	R8		W100 10K0 1% 0805 SMT RES	R85		W100 4K99 1% 0805 SMT RES
C50B		10N 50V 10%CAP 0805 SMT X7R	C119		330P 50V 5%CAP 0805 SMT NPO	C198		100N 50V 5%CAP 0805 SMT X7R	R9		W063 49R9 1% 0603 SMT RES	R86A		W125 1K02 0.1% 0805 SMT RES
C51A		10N 50V 10%CAP 0805 SMT X7R	C120		100N 16V 10%CAP 0603 SMT X7R	C199		470P 50V 5%CAP 0603 SMT NPO	R10		W100 220K 5% 0603 SMT RES	R86B		W125 1K02 0.1% 0805 SMT RES
C51B		10N 50V 10%CAP 0805 SMT X7R	C121		_3N3 25V 5%CAP 0805 SMT NPO	C200		100N 50V 5%CAP 0805 SMT X7R	R11		W063 49R9 1% 0603 SMT RES	R87		W100 10K0 1% 0805 SMT RES
C52A		47P 50V 5%CAP 0805 SMT NPO	C122		_10U 16V 20%CAP SMT ELC	C201		100N 50V 5%CAP 0805 SMT X7R	R12		W063 49R9 1% 0603 SMT RES	R88		W100 10K0 1% 0805 SMT RES
C52B		47P 50V 5%CAP 0805 SMT NPO	C123		100N 16V 10%CAP 0603 SMT X7R	C202A		100N 50V 5%CAP 0805 SMT X7R	R13		W125 1K02 0.1% 0805 SMT RES	R89A		W125 1K02 0.1% 0805 SMT RES
C53A		10U 16V 20%CAP SMT ELC	C124		_10N 50V 10%CAP 0805 SMT X7R	C202B		100N 50V 5%CAP 0805 SMT X7R	R14		W063 49R9 1% 0603 SMT RES	R89B		W125 1K02 0.1% 0805 SMT RES
C53B		10U 16V 20%CAP SMT ELC	C125		100N 16V 10%CAP 0603 SMT X7R	C203A		100N 50V 5%CAP 0805 SMT X7R	R15		W063 49R9 1% 0603 SMT RES	R90		W100 301R 1% 0805 SMT RES
C54A		100P 50V 10%CAP 0805 SMT NPO	C126		_10U 10V 10%CAP 1206 SMT X5R	C203B		100N 50V 5%CAP 0805 SMT X7R	R16		W125 1K50 1% 0805 SMT RES	R91		W100 15K0 1% 0805 SMT RES
C54B		100P 50V 10%CAP 0805 SMT NPO	C127		100N 16V 10%CAP 0603 SMT X7R	D1		MBRA340T3 40V 3A SHTKY 403D SMT	R17		W063 49R9 1% 0603 SMT RES	R92		W125 562R0 1% 0805 SMT RES
C55A		47P 50V 5%CAP 0805 SMT NPO	C128		100N 16V 10%CAP 0603 SMT X7R	D2		MBRA340T3 40V 3A SHTKY 403D SMT	R19		W063 49R9 1% 0603 SMT RES	R93		W100 4K99 1% 0805 SMT RES
C55B		47P 50V 5%CAP 0805 SMT NPO	C129		100N 16V 10%CAP 0603 SMT X7R	D3A		CDSF4148 75V 0A15 1005 SMT	R20		W100 4K99 1% 0805 SMT RES	R94		W063 10R 5% 0603 SMT RES
C56A		47P 50V 5%CAP 0805 SMT NPO	C130		_47U 35V 20%CAP 6.3MM SMT ELE	D3B		CDSF4148 75V 0A15 1005 SMT	R21		W100 10K0 1% 0805 SMT RES	R95		W100 100R 1% 0805 SMT RES
C56B		47P 50V 5%CAP 0805 SMT NPO	C131		100N 16V 10%CAP 0603 SMT X7R	D4A		CDSF4148 75V 0A15 1005 SMT	R22		W100 4K99 1% 0805 SMT RES	R96		W100 10K0 1% 0805 SMT RES
C57A		100N 50V 5%CAP 0805 SMT X7R	C132		100N 16V 10%CAP 0603 SMT X7R	D4B		CDSF4148 75V 0A15 1005 SMT	R23		W100 4K99 1% 0805 SMT RES	R97		W100 220R 1% 0603 SMT RES
C57B		100N 50V 5%CAP 0805 SMT X7R	C133		100N 50V 5%CAP 0805 SMT X7R	D5		CDSF4148 75V 0A15 1005 SMT	R24		W125 100K 5% 0805 SMT RES	R98		W100 220R 1% 0603 SMT RES
C58A		100N 50V 5%CAP 0805 SMT X7R	C134		100N 16V 10%CAP 0603 SMT X7R	D6		CDSF4148 75V 0A15 1005 SMT	R25		W063 49R9 1% 0603 SMT RES	R99		W100 10K0 1% 0805 SMT RES
C58B		100N 50V 5%CAP 0805 SMT X7R	C135		100N 16V 10%CAP 0603 SMT X7R	D7		CDSF4148 75V 0A15 1005 SMT	R28		W100 100R 1% 0805 SMT RES	R100		W125 47R 5% 0805 SMT RES
C59A		100N 50V 5%CAP 0805 SMT X7R	C136		180P 50V 5%CAP 0805 SMT NPO	D8		CDSF4148 75V 0A15 1005 SMT	R29		W100 3K74 1% 0805 SMT RES	R101		W100 220R 1% 0603 SMT RES
C59B		100N 50V 5%CAP 0805 SMT X7R	C137		100N 16V 10%CAP 0603 SMT X7R	D9		SMAJ150CA 150V 400W BIDIR SMT	R30		W100 100R 1% 0805 SMT RES	R102		W100 220R 1% 0603 SMT RES
C60A		100N 50V 5%CAP 0805 SMT X7R	C138		180P 50V 5%CAP 0805 SMT NPO	D10		CDSF4148 75V 0A15 1005 SMT	R31		W063 10R 5% 0603 SMT RES	R103		W100 15K0 1% 0805 SMT RES
C60B		100N 50V 5%CAP 0805 SMT X7R	C139		_47P 50V 5%CAP 0805 SMT NPO	D11		CDSF4148 75V 0A15 1005 SMT	R32		W125 1K02 0.1% 0805 SMT RES	R104		W125 562R0 1% 0805 SMT RES
C61		330P 50V 5%CAP 0805 SMT NPO	C140		_1N5 50V 5%CAP 0805 SMT NPO	D12		CDSF4148 75V 0A15 1005 SMT	R37		W125 470R 5% 0805 SMT RES	R105		W100 4K99 1% 0805 SMT RES
C62		_47P 50V 5%CAP 0805 SMT NPO	C141		180P 50V 5%CAP 0805 SMT NPO	D13		MMSZ5251B 22V0 0W5 SOD123 SMT ZEN	R39		W100 3K74 1% 0805 SMT RES	R106		W100 10K0 1% 0805 SMT RES
C63		_47P 50V 5%CAP 0805 SMT NPO	C142		180P 50V 5%CAP 0805 SMT NPO	D14		SMAJ150CA 150V 400W BIDIR SMT	R40		W100 100R 1% 0805 SMT RES	R107A		W125 47R 5% 0805 SMT RES

M1567-04 PG2 Parts Reference List 1/21/2022

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
R107B		W125 47R 5% 0805 SMT RES	R192		W125 30K 0.5% 0805 SMT RES	R271		W063 49R9 1% 0603 SMT RES
R108		W100 10K0 1% 0805 SMT RES	R193		W125 1K50 1% 0805 SMT RES	R272		W125 470R 5% 0805 SMT RES
R109A		W063 10R 5% 0603 SMT RES	R194		W100 15K0 1% 0805 SMT RES	R273		W063 49R9 1% 0603 SMT RES
R109B		W063 10R 5% 0603 SMT RES	R195		W125 750R 1% 0805 SMT RES	R274		W063 49R9 1% 0603 SMT RES
R110		W125 1K800 0.1% 0805 SMT RES	R196		W100 10K0 1% 0805 SMT RES	R275A		W125 1K02 0.1% 0805 SMT RES
R111		W100 15K0 1% 0805 SMT RES	R197		W125 750R 1% 0805 SMT RES	R275B		W125 1K02 0.1% 0805 SMT RES
R112		W125 562R0 1% 0805 SMT RES	R198		W125 1K50 1% 0805 SMT RES	R276A		W125 1K02 0.1% 0805 SMT RES
R113		W100 4K99 1% 0805 SMT RES	R199		W125 30K 0.5% 0805 SMT RES	R276B		W125 1K02 0.1% 0805 SMT RES
R114		W125 1M 5% 0805 SMT RES	R200		W100 4K99 1% 0805 SMT RES	R277A		W125 1K02 0.1% 0805 SMT RES
R116		W100 220K 5% 0603 SMT RES	R201		W100 4K99 1% 0805 SMT RES	R277B		W125 1K02 0.1% 0805 SMT RES
R117		W125 150K 5% 0805 SMT RES	R202		W100 4K99 1% 0805 SMT RES	R278		W125 1K02 0.1% 0805 SMT RES
R118		W100 10K0 1% 0805 SMT RES	R203		W100 10K0 1% 0805 SMT RES	R279		W125 1K02 0.1% 0805 SMT RES
R119		W100 10K0 1% 0805 SMT RES	R204		W125 750R 1% 0805 SMT RES	R280		W125 1K02 0.1% 0805 SMT RES
R120		W125 5K36 1% 0805 SMT RES	R205		W125 1K50 1% 0805 SMT RES	R281		W125 562R0 1% 0805 SMT RES
R121		W100 10K0 1% 0805 SMT RES	R206		W125 30K 0.5% 0805 SMT RES	R282		W125 562R0 1% 0805 SMT RES
R122		W100 3K74 1% 0805 SMT RES	R207		W125 30K 0.5% 0805 SMT RES	R283		W125 562R0 1% 0805 SMT RES
R123		W100 10K0 1% 0805 SMT RES	R208		W100 9K09 1% 0805 SMT RES	R284		W125 1K02 0.1% 0805 SMT RES
R124		W100 220K 5% 0603 SMT RES	R209		W125 5K36 1% 0805 SMT RES	R285		W125 1K02 0.1% 0805 SMT RES
R125		W100 10K0 1% 0805 SMT RES	R210		W100 15K0 1% 0805 SMT RES	R286		W125 1K02 0.1% 0805 SMT RES
R126		W100 301R 1% 0805 SMT RES	R211		W125 750R 1% 0805 SMT RES	R287		W100 100R 1% 0805 SMT RES
R127		W100 10K0 1% 0805 SMT RES	R212		W125 1K50 1% 0805 SMT RES	R288		W063 49R9 1% 0603 SMT RES
R128		W100 10K0 1% 0805 SMT RES	R213		W100 15K0 1% 0805 SMT RES	R289		W063 49R9 1% 0603 SMT RES
R129		W063 10R 5% 0603 SMT RES	R214		W125 750R 1% 0805 SMT RES	R290		W063 49R9 1% 0603 SMT RES
R131		W063 10R 5% 0603 SMT RES	R215		W125 30K 0.5% 0805 SMT RES	R291		W125 470R 5% 0805 SMT RES
R132		W100 10K0 1% 0805 SMT RES	R216		W125 1K02 0.1% 0805 SMT RES	R292		W063 49R9 1% 0603 SMT RES
R133		W100 10K0 1% 0805 SMT RES	R217		W125 30K 0.5% 0805 SMT RES	R293		W063 49R9 1% 0603 SMT RES
R134		W100 10K0 1% 0805 SMT RES	R218		W100 15K0 1% 0805 SMT RES	R294		W063 49R9 1% 0603 SMT RES
R135		W125 1K02 0.1% 0805 SMT RES	R219		W125 750R 1% 0805 SMT RES	R295		W063 49R9 1% 0603 SMT RES
R136		W100 4K99 1% 0805 SMT RES	R220		W100 15K0 1% 0805 SMT RES	R296		W250 22R 5% 1206 SMT RES
R137		W100 301R 1% 0805 SMT RES	R221		W125 750R 1% 0805 SMT RES	R297		W250 22R 5% 1206 SMT RES
R138		W100 10K0 1% 0805 SMT RES	R222		W125 30K 0.5% 0805 SMT RES	R298		W250 22R 5% 1206 SMT RES
R139		W100 10K0 1% 0805 SMT RES	R224		W125 1K02 0.1% 0805 SMT RES	R299		W250 22R 5% 1206 SMT RES
R140		W100 301R 1% 0805 SMT RES	R225A		W125 1K02 0.1% 0805 SMT RES	R300		W250 22R 5% 1206 SMT RES
R141		W100 220R 1% 0603 SMT RES	R225B		W125 1K02 0.1% 0805 SMT RES	R301		W250 22R 5% 1206 SMT RES
R142		W100 220R 1% 0603 SMT RES	R227		W125 47R 5% 0805 SMT RES	R302		W250 22R 5% 1206 SMT RES
R143		W125 47R 5% 0805 SMT RES	R228		W125 47R 5% 0805 SMT RES	R303		W250 22R 5% 1206 SMT RES
R144		W125 1K02 0.1% 0805 SMT RES	R229		W125 1K02 0.1% 0805 SMT RES	R304		W250 22R 5% 1206 SMT RES
R145		W100 10K0 1% 0805 SMT RES	R230		W100 4K99 1% 0805 SMT RES	S1	3522	DPDT MINI PC VERT SNP ALT
R146		W063 49R9 1% 0603 SMT RES	R231		W100 301R 1% 0805 SMT RES	S2	3440	4PDT MINI VERT ALT SWITCH
R147		W063 49R9 1% 0603 SMT RES	R232		W100 10K0 1% 0805 SMT RES	S3	3440	4PDT MINI VERT ALT SWITCH
R148		W063 49R9 1% 0603 SMT RES	R233		W125 47R 5% 0805 SMT RES	S4	3522	DPDT MINI PC VERT SNP ALT
R149		W125 0R 5% 0805 SMT RES	R234		W125 1K02 0.1% 0805 SMT RES	U1		ADAU1445 DIG AUDIO IC SMT LQFP100
R150		W250 22R 5% 1206 SMT RES	R235		W100 10K0 1% 0805 SMT RES	U2		TL072 DUAL OPAMP SMT SO-8
R152		W063 10R 5% 0603 SMT RES	R236A		W125 1K02 0.1% 0805 SMT RES	U3A		33078 DUAL OPAMP SMT SO-8
R153		W100 220K 5% 0603 SMT RES	R236B		W125 1K02 0.1% 0805 SMT RES	U3B		33078 DUAL OPAMP SMT SO-8
R154		W100 220K 5% 0603 SMT RES	R237		W100 100R 1% 0805 SMT RES	U4A		33078 DUAL OPAMP SMT SO-8
R155		W100 220K 5% 0603 SMT RES	R238		W125 47R 5% 0805 SMT RES	U4B		33078 DUAL OPAMP SMT SO-8
R156		W100 220K 5% 0603 SMT RES	R239		W125 1K02 0.1% 0805 SMT RES	U5		33078 DUAL OPAMP SMT SO-8
R157		W100 220K 5% 0603 SMT RES	R240		W100 4K99 1% 0805 SMT RES	U6		TL072 DUAL OPAMP SMT SO-8
R158		W100 220K 5% 0603 SMT RES	R241		W100 10K0 1% 0805 SMT RES	U7		33078 DUAL OPAMP SMT SO-8
R159		W100 220R 1% 0603 SMT RES	R242		W100 10K0 1% 0805 SMT RES	U8		33078 DUAL OPAMP SMT SO-8
R161		W063 49R9 1% 0603 SMT RES	R243A		W125 47R 5% 0805 SMT RES	U9		TL072 DUAL OPAMP SMT SO-8
R162		W100 220R 1% 0603 SMT RES	R243B		W125 47R 5% 0805 SMT RES	U10		PCM3168A AUDIO CODEC HTQFP64 SMT
R163		W100 4K99 1% 0805 SMT RES	R244		W100 10K0 1% 0805 SMT RES	U11		MC7815BDTG POS REG SMT DPAK3
R164		W063 49R9 1% 0603 SMT RES	R245		W100 220K 5% 0603 SMT RES	U12		MKL15Z64VLH4 48MHZ MCU SMT LQFP64
R165		W100 20K0 1% 0805 SMT RES	R246		W100 220K 5% 0603 SMT RES	U13		RN52-I/RM BLUETOOTH AUDIO SMT MOD
R166		W063 10R 5% 0603 SMT RES	R248		W100 10K0 1% 0805 SMT RES	U14		TL072 DUAL OPAMP SMT SO-8
R167		W125 0R 5% 0805 SMT RES	R249		W125 1K02 0.1% 0805 SMT RES	U15		TL072 DUAL OPAMP SMT SO-8
R169		W125 470R 5% 0805 SMT RES	R250A		W063 10R 5% 0603 SMT RES	U16		PCM1808 24B ST ADC IC SMT TSSOP14
R170		W125 1K800 0.1% 0805 SMT RES	R250B		W063 10R 5% 0603 SMT RES	U17		L5970AD 3V3 ADJ REG 1A5 SMT SO8
R171		W125 1M 5% 0805 SMT RES	R251		W100 100R 1% 0805 SMT RES	U18		L5970AD 3V3 ADJ REG 1A5 SMT SO8
R173		W125 30K 0.5% 0805 SMT RES	R252		W125 1K02 0.1% 0805 SMT RES	U19		33078 DUAL OPAMP SMT SO-8
R174		W100 15K0 1% 0805 SMT RES	R253		W100 100R 1% 0805 SMT RES	U20		33078 DUAL OPAMP SMT SO-8
R175		W100 15K0 1% 0805 SMT RES	R255A		W063 10R 5% 0603 SMT RES	U21		33078 DUAL OPAMP SMT SO-8
R176		W100 10K0 1% 0805 SMT RES	R255B		W063 10R 5% 0603 SMT RES	U22		MC79M15CDTG NEG REG SMT DPAK3
R177		W125 750R 1% 0805 SMT RES	R256A		W063 10R 5% 0603 SMT RES	U23		PCM1808 24B ST ADC IC SMT TSSOP14
R178		W125 1K50 1% 0805 SMT RES	R256B		W063 10R 5% 0603 SMT RES	U24		33078 DUAL OPAMP SMT SO-8
R179		W125 30K 0.5% 0805 SMT RES	R258		W063 49R9 1% 0603 SMT RES	U25		33078 DUAL OPAMP SMT SO-8
R180		W100 4K99 1% 0805 SMT RES	R259		W125 1K02 0.1% 0805 SMT RES	U26A		33078 DUAL OPAMP SMT SO-8
R181		W100 4K99 1% 0805 SMT RES	R260		W125 1K02 0.1% 0805 SMT RES	U26B		33078 DUAL OPAMP SMT SO-8
R182		W100 3K74 1% 0805 SMT RES	R261		W125 47R 5% 0805 SMT RES	U27		33078 DUAL OPAMP SMT SO-8
R183		W100 10K0 1% 0805 SMT RES	R262		W063 10R 5% 0603 SMT RES	W1		10 CIR DUAL ROW HDR 0.05 SPC SMT
R184		W125 750R 1% 0805 SMT RES	R263		W125 1K02 0.1% 0805 SMT RES	W2	2381	09 CIR XH-HEADER RA 0.098IN
R185		W125 1K50 1% 0805 SMT RES	R264		W125 1K02 0.1% 0805 SMT RES	W3	3543	4 PIN BREAKAWAY RA 90 LOCK .1563
R186		W125 30K 0.5% 0805 SMT RES	R265		W125 47R 5% 0805 SMT RES	Y1		12.288MHZ CRYSTAL 4-PIN SMT
R187		W125 30K 0.5% 0805 SMT RES	R266		W063 10R 5% 0603 SMT RES			
R188		W100 4K99 1% 0805 SMT RES	R267		W063 49R9 1% 0603 SMT RES			
R189		W100 4K99 1% 0805 SMT RES	R268		W063 49R9 1% 0603 SMT RES			
R190		W100 15K0 1% 0805 SMT RES	R269		W063 49R9 1% 0603 SMT RES			
R191		W125 750R 1% 0805 SMT RES	R270		W063 49R9 1% 0603 SMT RES			

M1569-02 P1 Parts Reference List 1/21/2022

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
A1-ASS	M1569-59	EXM400 PRE-AMP BOARD	C64		10U 16V 20%CAP SMT ELC	C143		180P 50V 5%CAP 0805 SMT NPO	D11		CDSF4148 75V 0A15 1005 SMT	R31		W063 10R 5% 0603 SMT RES
C1		100N 16V 10%CAP 0603 SMT X7R	C65		47P 50V 5%CAP 0805 SMT NPO	C144		1N5 50V 5%CAP 0805 SMT NPO	D12		CDSF4148 75V 0A15 1005 SMT	R32		W125 1K02 0.1% 0805 SMT RES
C2		100N 16V 10%CAP 0603 SMT X7R	C66		47P 50V 5%CAP 0805 SMT NPO	C145		180P 50V 5%CAP 0805 SMT NPO	D13		MMSZ5251B 22V0 0W5 SOD123 SMT ZEN	R37		W125 47R 5% 0805 SMT RES
C3		100N 16V 10%CAP 0603 SMT X7R	C67A		100P 50V 10%CAP 0805 SMT NPO	C146		180P 50V 5%CAP 0805 SMT NPO	D14		SMAJ150CA 150V 400W BIDIR SMT	R39		W100 3K74 1% 0805 SMT RES
C4		100N 16V 10%CAP 0603 SMT X7R	C67B		100P 50V 10%CAP 0805 SMT NPO	C147		1N5 50V 5%CAP 0805 SMT NPO	D15		CDSF4148 75V 0A15 1005 SMT	R40		W100 100R 1% 0805 SMT RES
C5		100N 16V 10%CAP 0603 SMT X7R	C68		100N 50V 5%CAP 0805 SMT X7R	C148		180P 50V 5%CAP 0805 SMT NPO	D16		CDSF4148 75V 0A15 1005 SMT	R44		W100 100R 1% 0805 SMT RES
C6		100N 16V 10%CAP 0603 SMT X7R	C69		330P 50V 5%CAP 0805 SMT NPO	C149		180P 50V 5%CAP 0805 SMT NPO	D17		CDSF4148 75V 0A15 1005 SMT	R45		W063 49R9 1% 0603 SMT RES
C7		100N 16V 10%CAP 0603 SMT X7R	C70		10U 16V 20%CAP SMT ELC	C150		1N5 50V 5%CAP 0805 SMT NPO	D18		CDSF4148 75V 0A15 1005 SMT	R46		W125 5K36 1% 0805 SMT RES
C8		100N 16V 10%CAP 0603 SMT X7R	C71		330P 50V 5%CAP 0805 SMT NPO	C151		180P 50V 5%CAP 0805 SMT NPO	D19		CDSF4148 75V 0A15 1005 SMT	R47		W125 5K36 1% 0805 SMT RES
C9		100N 16V 10%CAP 0603 SMT X7R	C72		470P 50V 5%CAP 0603 SMT NPO	C152		180P 50V 5%CAP 0805 SMT NPO	J1	4182	1/4INJCK PCB MT VT ST RTS SW NJ6	R54		W100 100R 1% 0805 SMT RES
C10		100N 16V 10%CAP 0603 SMT X7R	C73		4U7 50V 10%CAP 1210 SMT CER	C153		1N5 50V 5%CAP 0805 SMT NPO	J3	4090	1/4IN &XLR PCB MT VERT COMBO NCJ6-V	R55		W125 5K36 1% 0805 SMT RES
C11		100N 16V 10%CAP 0603 SMT X7R	C74		47P 50V 5%CAP 0805 SMT NPO	C154		100U 25V 20%CAP 8X5.4 SMT ELE	J4	4090	1/4IN &XLR PCB MT VERT COMBO NCJ6-V	R56		W125 5K36 1% 0805 SMT RES
C12		100N 16V 10%CAP 0603 SMT X7R	C75		47U 35V 20%CAP 6.3MM SMT ELE	C155		330P 50V 5%CAP 0805 SMT NPO	J5	3921	1/4" JCK PCB MT VERT STER RT SWT	R57A		W100 4K99 1% 0805 SMT RES
C13		100N 16V 10%CAP 0603 SMT X7R	C76		100N 16V 10%CAP 0603 SMT X7R	C156		100N 50V 5%CAP 0805 SMT X7R	J6	3921	1/4" JCK PCB MT VERT STER RT SWT	R57B		W100 4K99 1% 0805 SMT RES
C14		100N 16V 10%CAP 0603 SMT X7R	C77		47P 50V 5%CAP 0805 SMT NPO	C157		100N 50V 5%CAP 0805 SMT X7R	J7	4186	3.5MM JCK PCB MT VERT ST	R58A		W125 1K02 0.1% 0805 SMT RES
C15		100N 16V 10%CAP 0603 SMT X7R	C78		100P 50V 10%CAP 0805 SMT NPO	C158		470P 50V 5%CAP 0603 SMT NPO	J8	3921	1/4" JCK PCB MT VERT STER RT SWT	R58B		W125 1K02 0.1% 0805 SMT RES
C16		100N 16V 10%CAP 0603 SMT X7R	C79		330P 50V 5%CAP 0805 SMT NPO	C159		4U7 50V 10%CAP 1210 SMT CER	J9	3921	1/4" JCK PCB MT VERT STER RT SWT	R59		W100 27K4 1% 0805 SMT RES
C17		10U 16V 20%CAP SMT ELC	C80		100N 50V 5%CAP 0805 SMT X7R	C160		180P 50V 5%CAP 0805 SMT NPO	J11	3921	1/4" JCK PCB MT VERT STER RT SWT	R60		W100 100R 1% 0805 SMT RES
C18		10U 16V 20%CAP SMT ELC	C81		100N 50V 5%CAP 0805 SMT X7R	C161		100U 25V 20%CAP 8X5.4 SMT ELE	L1		FERRITE BEAD 600R @100MHZ 0805 SMT	R61A		W125 562R0 1% 0805 SMT RES
C19		10U 16V 20%CAP SMT ELC	C82		100N 50V 5%CAP 0805 SMT X7R	C162		100N 16V 10%CAP 0603 SMT X7R	L2		47UH COIL FER CORE 10MMSQ SMT	R61B		W125 562R0 1% 0805 SMT RES
C20		10U 16V 20%CAP SMT ELC	C83		180P 50V 5%CAP 0805 SMT NPO	C163		10U 16V 20%CAP SMT ELC	L3		220UH COIL 10X10MM SMT	R62A		W100 10K0 1% 0805 SMT RES
C21		33N 50V 5%CAP 0805 SMT X7R	C84		10U 16V 20%CAP SMT ELC	C164		1U 50V 20%CAP 4.3X3.9 SMT ELC	L4		120.0UH COIL A34 1R6 SMT	R62B		W100 10K0 1% 0805 SMT RES
C22		1N5 50V 5%CAP 0805 SMT NPO	C85		100P 50V 10%CAP 0805 SMT NPO	C165		1U 50V 20%CAP 4.3X3.9 SMT ELC	L5		2.2UH COIL SMT	R63A		W100 301R 1% 0805 SMT RES
C23		330P 50V 5%CAP 0805 SMT NPO	C86		220N 50V 10%CAP 1206 SMT X7R	C166		100N 16V 10%CAP 0603 SMT X7R	LD1		RD/GN LED 2V1 20MA 0805 SMT	R63B		W100 301R 1% 0805 SMT RES
C24		100P 50V 10%CAP 0805 SMT NPO	C87		100N 16V 10%CAP 0603 SMT X7R	C167		10U 16V 20%CAP SMT ELC	LD2		BL/RD LED 2V1 20MA 0805 SMT	R64A		W100 10K0 1% 0805 SMT RES
C25A		3N3 25V 5%CAP 0805 SMT NPO	C88		100N 16V 10%CAP 0603 SMT X7R	C168		10U 16V 20%CAP SMT ELC	LD3		RD/GN LED 2V1 20MA 0805 SMT	R64B		W100 10K0 1% 0805 SMT RES
C25B		3N3 25V 5%CAP 0805 SMT NPO	C89		100N 50V 5%CAP 0805 SMT X7R	C169		100N 16V 10%CAP 0603 SMT X7R	LD4		BL/RD LED 2V1 20MA 0805 SMT	R65A		W100 10K0 1% 0805 SMT RES
C26A		3N3 25V 5%CAP 0805 SMT NPO	C90		100N 50V 5%CAP 0805 SMT X7R	C170		47U 35V 20%CAP 6.3MM SMT ELE	LD5		RD/GN LED 2V1 20MA 0805 SMT	R65B		W100 10K0 1% 0805 SMT RES
C26B		3N3 25V 5%CAP 0805 SMT NPO	C91		330P 50V 5%CAP 0805 SMT NPO	C171A		10U 16V 20%CAP SMT ELC	LD6		GRN LED 2V8 20MA 1206 SMT	R66A		W125 47R 5% 0805 SMT RES
C27		22U 16V 20%CAP 5X5.5 SMT ELC	C92		10U 16V 20%CAP SMT ELC	C171B		10U 16V 20%CAP SMT ELC	LD7		RED LED 1V5 20MA 1206 SMT	R66B		W125 47R 5% 0805 SMT RES
C28		3N3 25V 5%CAP 0805 SMT NPO	C93		330P 50V 5%CAP 0805 SMT NPO	C172		330P 50V 5%CAP 0805 SMT NPO	LD8		BLU LED 2V8 20MA 1206 SMT	R67A		W100 10K0 1% 0805 SMT RES
C29		22U 16V 20%CAP 5X5.5 SMT ELC	C94		100N 50V 5%CAP 0805 SMT X7R	C173		330P 50V 5%CAP 0805 SMT NPO	LD10		BL/RD LED 2V1 20MA 0805 SMT	R67B		W100 10K0 1% 0805 SMT RES
C30		10U 16V 20%CAP SMT ELC	C95		100N 50V 5%CAP 0805 SMT X7R	C174		100N 16V 10%CAP 0603 SMT X7R	LED1		RD/GN LED 2V1 20MA 0805 SMT	R68A		W125 1K02 0.1% 0805 SMT RES
C31		10U 16V 20%CAP SMT ELC	C96		100N 16V 10%CAP 0603 SMT X7R	C175		10U 16V 20%CAP SMT ELC	P1A	4462	50K BLIN 9MM P32	R68B		W125 1K02 0.1% 0805 SMT RES
C32		10U 16V 20%CAP SMT ELC	C97		10U 10V 10%CAP 1206 SMT X5R	C176		1U 50V 20%CAP 4.3X3.9 SMT ELC	P1B	4462	50K BLIN 9MM P32	R69		W100 27K4 1% 0805 SMT RES
C33		10U 16V 20%CAP SMT ELC	C98		100N 16V 10%CAP 0603 SMT X7R	C177		1U 50V 20%CAP 4.3X3.9 SMT ELC	P2A	4462	50K BLIN 9MM P32	R70		W100 100R 1% 0805 SMT RES
C34		10U 16V 20%CAP SMT ELC	C99		100N 16V 10%CAP 0603 SMT X7R	C178		330P 50V 5%CAP 0805 SMT NPO	P2B	4462	50K BLIN 9MM P32	R71A		W125 562R0 1% 0805 SMT RES
C35		10N 50V 10%CAP 0805 SMT X7R	C100		10U 10V 10%CAP 1206 SMT X5R	C179		100N 16V 10%CAP 0603 SMT X7R	P3A	4459	10K B LIN 9MM DET HI TORQ P32	R71B		W125 562R0 1% 0805 SMT RES
C36		22U 25V 20%CAP 1210 SMT X7R	C101		100N 16V 10%CAP 0603 SMT X7R	C180		100N 16V 10%CAP 0603 SMT X7R	P3B	4459	10K B LIN 9MM DET HI TORQ P32	R72A		W100 10K0 1% 0805 SMT RES
C37		22U 16V 20%CAP 5X5.5 SMT ELC	C102		100N 16V 10%CAP 0603 SMT X7R	C181		100N 50V 5%CAP 0805 SMT X7R	P4	4462	50K BLIN 9MM P32	R72B		W100 10K0 1% 0805 SMT RES
C38		22U 25V 20%CAP 1210 SMT X7R	C103		10U 10V 10%CAP 1206 SMT X5R	C182		10U 16V 20%CAP SMT ELC	P5	4459	10K B LIN 9MM DET HI TORQ P32	R73A		W100 10K0 1% 0805 SMT RES
C39		470P 50V 5%CAP 0603 SMT NPO	C104		100N 16V 10%CAP 0603 SMT X7R	C183		10U 16V 20%CAP SMT ELC	P6	4459	10K B LIN 9MM DET HI TORQ P32	R73B		W100 10K0 1% 0805 SMT RES
C40		22N 50V 10%CAP 0805 SMT X7R	C105		100N 16V 10%CAP 0603 SMT X7R	C184		100P 50V 10%CAP 0805 SMT NPO	P7	4462	50K BLIN 9MM P32	R74A		W125 47R 5% 0805 SMT RES
C41		100U 10V 20%CAP 3528 SMT TNT	C106		10U 16V 20%CAP SMT ELC	C185		470P 50V 5%CAP 0603 SMT NPO	P8	4459	10K B LIN 9MM DET HI TORQ P32	R74B		W125 47R 5% 0805 SMT RES
C42		100N 50V 5%CAP 0805 SMT X7R	C107		100N 16V 10%CAP 0603 SMT X7R	C186		10U 16V 20%CAP SMT ELC	P9	4462	50K BLIN 9MM P32	R75A		W125 1M 5% 0805 SMT RES
C43		100N 50V 5%CAP 0805 SMT X7R	C108		10U 16V 20%CAP SMT ELC	C187		10U 16V 20%CAP SMT ELC	PCB1	M1569BLANK	1 OZ 2SD 60.75SQIN 1PER EXM400	R75B		W125 1M 5% 0805 SMT RES
C44		22U 16V 20%CAP 5X5.5 SMT ELC	C109		10U 16V 20%CAP SMT ELC	C188		470P 50V 5%CAP 0603 SMT NPO	Q1		DSS5240T 40V PNP SOT-23 SMT	R76A		W100 15K0 1% 0805 SMT RES
C45A		100P 50V 10%CAP 0805 SMT NPO	C110		10N 50V 10%CAP 0805 SMT X7R	C189		100N 16V 10%CAP 0603 SMT X7R	Q2		MMBTA64LT1G PNP DARL SOT-23 SMT	R76B		W100 15K0 1% 0805 SMT RES
C45B		100P 50V 10%CAP 0805 SMT NPO	C111		100N 50V 5%CAP 0805 SMT X7R	C190		100N 16V 10%CAP 0603 SMT X7R	Q3		MMBT5401 PNP SOT-23 SMT	R77A		W125 1K02 0.1% 0805 SMT RES
C46		22U 16V 20%CAP 5X5.5 SMT ELC	C112		22U 25V 20%CAP 1210 SMT X7R	C191		100N 16V 10%CAP 0603 SMT X7R	Q4A		MMBT3906LT1 PNP SOT-23 SMT T&R	R77B		W125 1K02 0.1% 0805 SMT RES
C47		22U 16V 20%CAP 5X5.5 SMT ELC	C113		1U 50V 20%CAP 4.3X3.9 SMT ELC	C192		100N 50V 5%CAP 0805 SMT X7R	Q4B		MMBT3906LT1 PNP SOT-23 SMT T&R	R78A		W125 1K800 0.1% 0805 SMT RES
C48A		10U 16V 20%CAP SMT ELC	C114		1U 50V 20%CAP 4.3X3.9 SMT ELC	C193		100N 50V 5%CAP 0805 SMT X7R	Q5A		MMBTA14 NPN DARL SOT-23 SMT	R78B		W125 1K800 0.1% 0805 SMT RES
C48B		10U 16V 20%CAP SMT ELC	C115		1U 50V 20%CAP 4.3X3.9 SMT ELC	C194		330P 50V 5%CAP 0805 SMT NPO	Q5B		MMBTA14 NPN DARL SOT-23 SMT	R79A		W125 1M 5% 0805 SMT RES
C49A		47P 50V 5%CAP 0805 SMT NPO	C116		100N 50V 5%CAP 0805 SMT X7R	C195		10U 16V 10%CAP 0805 SMT X6S	Q6		MMBTA14 NPN DARL SOT-23 SMT	R79B		W125 1M 5% 0805 SMT RES
C49B		47P 50V 5%CAP 0805 SMT NPO	C117		100N 16V 10%CAP 0603 SMT X7R	C196		1U 50V 20%CAP 4.3X3.9 SMT ELC	Q7		MC78M05BDTR POS REG SMT DPAK3	R80A		W125 150K 5% 0805 SMT RES
C50A		10N 50V 10%CAP 0805 SMT X7R	C118		100N 16V 10%CAP 0603 SMT X7R	C197		100N 16V 10%CAP 0603 SMT X7R	R2		W100 220K 5% 0603 SMT RES	R80B		W125 150K 5% 0805 SMT RES
C50B		10N 50V 10%CAP 0805 SMT X7R	C119		330P 50V 5%CAP 0805 SMT NPO	C198		100N 50V 5%CAP 0805 SMT X7R	R3		W100 220K 5% 0603 SMT RES	R81		W100 15K0 1% 0805 SMT RES
C51A		10N 50V 10%CAP 0805 SMT X7R	C120		100N 16V 10%CAP 0603 SMT X7R	C199		470P 50V 5%CAP 0603 SMT NPO	R4		W100 220K 5% 0603 SMT RES	R82		W125 562R0 1% 0805 SMT RES
C51B		10N 50V 10%CAP 0805 SMT X7R	C121		3N3 25V 5%CAP 0805 SMT NPO	C200		100N 50V 5%CAP 0805 SMT X7R	R6		W100 100R 1% 0805 SMT RES	R83		W100 4K99 1% 0805 SMT RES
C52A		47P 50V 5%CAP 0805 SMT NPO	C122		10U 16V 20%CAP SMT ELC	C201		100N 50V 5%CAP 0805 SMT X7R	R7		W063 49R9 1% 0603 SMT RES	R84		W100 10K0 1% 0805 SMT RES
C52B		47P 50V 5%CAP 0805 SMT NPO	C123		100N 16V 10%CAP 0603 SMT X7R	C202A		100N 50V 5%CAP 0805 SMT X7R	R8		W100 10K0 1% 0805 SMT RES	R85		W100 4K99 1% 0805 SMT RES
C53A		10U 16V 20%CAP SMT ELC	C124		10N 50V 10%CAP 0805 SMT X7R	C202B		100N 50V 5%CAP 0805 SMT X7R	R9		W063 49R9 1% 0603 SMT RES	R86A		W125 1K02 0.1% 0805 SMT RES
C53B		10U 16V 20%CAP SMT ELC	C125		100N 16V 10%CAP 0603 SMT X7R	C203A		100N 50V 5%CAP 0805 SMT X7R	R10		W100 220K 5% 0603 SMT RES	R86B		W125 1K02 0.1% 0805 SMT RES
C54A		100P 50V 10%CAP 0805 SMT NPO	C126		10U 10V 10%CAP 1206 SMT X5R	C203B		100N 50V 5%CAP 0805 SMT X7R	R11		W063 49R9 1% 0603 SMT RES	R87		W100 10K0 1% 0805 SMT RES
C54B		100P 50V 10%CAP 0805 SMT NPO	C127		100N 16V 10%CAP 0603 SMT X7R	C204		10N 50V 10%CAP 0805 SMT X7R	R12		W063 49R9 1% 0603 SMT RES	R88		W100 10K0 1% 0805 SMT RES
C55A		47P 50V 5%CAP 0805 SMT NPO	C128		100N 16V 10%CAP 0603 SMT X7R	C205		100N 50V 5%CAP 0805 SMT X7R	R13		W125 1K02 0.1% 0805 SMT RES	R89A		W125 1K02 0.1% 0805 SMT RES
C55B		47P 50V 5%CAP 0805 SMT NPO	C129		100N 16V 10%CAP 0603 SMT X7R	C206		10U 25V 20%CAP 5X5.4 SMT EL	R14		W063 49R9 1% 0603 SMT RES	R89B		W125 1K02 0.1% 0805 SMT RES
C56A		47P 50V 5%CAP 0805 SMT NPO	C130		47U 35V 20%CAP 6.3MM SMT ELE	C207		100N 50V 5%CAP 0805 SMT X7R	R15		W063 49R9 1% 0603 SMT RES	R90		W100 301R 1% 0805 SMT RES
C56B		47P 50V 5%CAP 0805 SMT NPO	C131		100N 16V 10%CAP 0603 SMT X7R	D1		MBRA340T3 40V 3A SHTKY 403D SMT	R16		W125 1K50 1% 0805 SMT RES	R91		W100 15K0 1% 0805 SMT RES
C57A		100N 50V 5%CAP 0805 SMT X7R	C132		100N 16V 10%CAP 0603 SMT X7R	D2		MBRA340T3 40V 3A SHTKY 403D SMT	R17		W063 49R9 1% 0603 SMT RES	R92		W125 562R0 1% 0805 SMT RES
C57B		100N 50V 5%CAP 0805 SMT X7R	C133		100N 50V 5%CAP 0805 SMT X7R	D3A		CDSF4148 75V 0A15 1005 SMT	R19		W063 49R9 1% 0603 SMT RES	R93		W100 4K99 1% 0805 SMT RES
C58A		100N 50V 5%CAP 0805 SMT X7R	C134		10U 25V 20%CAP 5X5.4 SMT EL	D3B		CDSF4148 75V 0A15 1005 SMT	R20		W100 4K99 1% 0805 SMT RES	R94		W063 10R 5% 0603 SMT RES
C58B		100N 50V 5%CAP 0805 SMT X7R	C135		100N 16V 10%CAP 0603 SMT X7R	D4A		CDSF4148 75V 0A15 1005 SMT	R21		W100 10K0 1% 0805 SMT RES	R95		W100 100R 1% 0805 SMT RES
C59A		100N 50V 5%CAP 0805 SMT X7R	C136		180P 50V 5%CAP 0805 SMT NPO	D4B		CDSF4148 75V 0A15 1005 SMT	R22		W100 4K99 1% 0805 SMT RES	R96		W100 10K0 1% 0805 SMT RES
C59B		100N 50V 5%CAP 0805 SMT X7R	C137		100N 16V 10%CAP 0603 SMT X7R	D5		CDSF4148 75V 0A15 1005 SMT	R23		W100 4K99 1% 0805 SMT RES	R97		W100 220R 1% 0603 SMT RES
C60A		100N 50V 5%CAP 0805 SMT X7R	C138		180P 50V 5%CAP 0805 SMT NPO	D6		CDSF4148 75V 0A15 1005 SMT	R24		W125 100K 5% 0805 SMT RES	R98		W100 220R 1% 0603 SMT RES
C60B		100N 50V 5%CAP 0805 SMT X7R	C139		47P 50V 5%CAP 0805 SMT NPO	D7		CDSF4148 75V 0A15 1005 SMT	R25		W063 49R9 1% 0603 SMT RES	R99		W100 10K0 1% 0805 SMT RES
C61		330P 50V 5%CAP 0805 SMT NPO	C140		1N5 50V 5%CAP 0805 SMT NPO	D8		CDSF4148 75V 0A15 1005 SMT	R28		W100 100R 1% 0805 SMT RES	R100		W125 47R 5% 0805 SMT RES
C62		47P 50V 5%CAP 0805 SMT NPO	C141		180P 50V 5%CAP 0805 SMT NPO	D9		SMAJ150CA 150V 400W BIDIR SMT	R29		W100 3K74 1% 0805 SMT RES	R101		W100 220R 1% 0603 SMT RES
C63		47P 50V 5%CAP 0805 SMT NPO	C142		180P 50V 5%CAP 0805 SMT NPO	D10		CDSF4148 75V 0A15 1005 SMT	R30		W100 100R 1% 0805 SMT RES	R102		W100 220R 1% 0603 SMT RES

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REF	YS #	Description
R103		W100 15K0 1% 0805 SMT RES
R104		W125 562R0 1% 0805 SMT RES
R105		W100 4K99 1% 0805 SMT RES
R106		W100 10K0 1% 0805 SMT RES
R107A		W125 47R 5% 0805 SMT RES
R107B		W125 47R 5% 0805 SMT RES
R108		W100 10K0 1% 0805 SMT RES
R109A		W063 10R 5% 0603 SMT RES
R109B		W063 10R 5% 0603 SMT RES
R110		W125 1K800 0.1% 0805 SMT RES
R111		W100 15K0 1% 0805 SMT RES
R112		W125 562R0 1% 0805 SMT RES
R113		W100 4K99 1% 0805 SMT RES
R114		W125 1M 5% 0805 SMT RES
R116		W100 220K 5% 0603 SMT RES
R117		W125 150K 5% 0805 SMT RES
R118		W100 10K0 1% 0805 SMT RES
R119		W100 10K0 1% 0805 SMT RES
R120		W125 5K36 1% 0805 SMT RES
R121		W100 10K0 1% 0805 SMT RES
R122		W100 3K74 1% 0805 SMT RES
R123		W100 10K0 1% 0805 SMT RES
R124		W100 220K 5% 0603 SMT RES
R125		W100 10K0 1% 0805 SMT RES
R126		W100 301R 1% 0805 SMT RES
R127		W100 10K0 1% 0805 SMT RES
R128		W100 10K0 1% 0805 SMT RES
R129		W063 10R 5% 0603 SMT RES
R131		W063 10R 5% 0603 SMT RES
R132		W100 10K0 1% 0805 SMT RES
R133		W100 10K0 1% 0805 SMT RES
R134		W100 10K0 1% 0805 SMT RES
R135		W125 1K02 0.1% 0805 SMT RES
R136		W100 4K99 1% 0805 SMT RES
R137		W100 301R 1% 0805 SMT RES
R138		W100 10K0 1% 0805 SMT RES
R139		W100 10K0 1% 0805 SMT RES
R140		W100 301R 1% 0805 SMT RES
R141		W100 220R 1% 0603 SMT RES
R142		W100 220R 1% 0603 SMT RES
R143		W125 47R 5% 0805 SMT RES
R144		W125 1K02 0.1% 0805 SMT RES
R145		W100 10K0 1% 0805 SMT RES
R146		W063 49R9 1% 0603 SMT RES
R147		W063 49R9 1% 0603 SMT RES
R148		W063 49R9 1% 0603 SMT RES
R149		W125 0R 5% 0805 SMT RES
R150		W250 22R 5% 1206 SMT RES
R152		W063 10R 5% 0603 SMT RES
R153		W100 220K 5% 0603 SMT RES
R154		W100 220K 5% 0603 SMT RES
R155		W100 220K 5% 0603 SMT RES
R156		W100 220K 5% 0603 SMT RES
R157		W100 220K 5% 0603 SMT RES
R158		W100 220K 5% 0603 SMT RES
R159		W100 220R 1% 0603 SMT RES
R162		W100 220R 1% 0603 SMT RES
R163		W100 4K99 1% 0805 SMT RES
R164		W125 47R 5% 0805 SMT RES
R165		W100 20K0 1% 0805 SMT RES
R166		W063 10R 5% 0603 SMT RES
R167		W125 0R 5% 0805 SMT RES
R168		W100 100R 1% 0805 SMT RES
R169		W125 4K7 5% 0805 SMT RES
R170		W125 1K800 0.1% 0805 SMT RES
R171		W125 1M 5% 0805 SMT RES
R173		W125 30K 0.5% 0805 SMT RES
R174		W100 15K0 1% 0805 SMT RES
R175		W100 15K0 1% 0805 SMT RES
R176		W100 10K0 1% 0805 SMT RES
R177		W125 750R 1% 0805 SMT RES
R178		W125 1K50 1% 0805 SMT RES
R179		W125 30K 0.5% 0805 SMT RES
R180		W100 4K99 1% 0805 SMT RES
R181		W100 4K99 1% 0805 SMT RES
R182		W100 3K74 1% 0805 SMT RES
R183		W100 10K0 1% 0805 SMT RES
R184		W125 750R 1% 0805 SMT RES
R185		W125 1K50 1% 0805 SMT RES
R186		W125 30K 0.5% 0805 SMT RES
R187		W125 30K 0.5% 0805 SMT RES
R188		W100 4K99 1% 0805 SMT RES
R189		W100 4K99 1% 0805 SMT RES
R190		W100 15K0 1% 0805 SMT RES
R191		W125 750R 1% 0805 SMT RES
R192		W125 30K 0.5% 0805 SMT RES
R193		W125 1K50 1% 0805 SMT RES
R194		W100 15K0 1% 0805 SMT RES
R195		W125 750R 1% 0805 SMT RES
R196		W100 10K0 1% 0805 SMT RES
R197		W125 750R 1% 0805 SMT RES
R198		W125 1K50 1% 0805 SMT RES
R199		W125 30K 0.5% 0805 SMT RES
R200		W100 4K99 1% 0805 SMT RES
R201		W100 4K99 1% 0805 SMT RES
R202		W100 4K99 1% 0805 SMT RES
R203		W100 10K0 1% 0805 SMT RES
R204		W125 750R 1% 0805 SMT RES
R205		W125 1K50 1% 0805 SMT RES
R206		W125 30K 0.5% 0805 SMT RES
R207		W125 30K 0.5% 0805 SMT RES
R208		W100 9K09 1% 0805 SMT RES
R209		W125 5K36 1% 0805 SMT RES
R210		W100 15K0 1% 0805 SMT RES
R211		W125 750R 1% 0805 SMT RES
R212		W125 1K50 1% 0805 SMT RES
R213		W100 15K0 1% 0805 SMT RES
R214		W125 750R 1% 0805 SMT RES
R215		W125 30K 0.5% 0805 SMT RES
R216		W125 1K02 0.1% 0805 SMT RES
R217		W125 30K 0.5% 0805 SMT RES
R218		W100 15K0 1% 0805 SMT RES
R219		W125 750R 1% 0805 SMT RES
R220		W100 15K0 1% 0805 SMT RES
R221		W125 750R 1% 0805 SMT RES
R222		W125 30K 0.5% 0805 SMT RES
R224		W125 1K02 0.1% 0805 SMT RES
R225A		W125 1K02 0.1% 0805 SMT RES
R225B		W125 1K02 0.1% 0805 SMT RES
R226		W125 47R 5% 0805 SMT RES
R227		W125 47R 5% 0805 SMT RES
R228		W125 47R 5% 0805 SMT RES
R229		W125 1K02 0.1% 0805 SMT RES
R230		W100 4K99 1% 0805 SMT RES
R231		W100 301R 1% 0805 SMT RES
R232		W100 10K0 1% 0805 SMT RES
R233		W125 47R 5% 0805 SMT RES
R234		W125 1K02 0.1% 0805 SMT RES
R235		W100 10K0 1% 0805 SMT RES
R236A		W125 1K02 0.1% 0805 SMT RES
R236B		W125 1K02 0.1% 0805 SMT RES
R237		W100 100R 1% 0805 SMT RES
R238		W125 47R 5% 0805 SMT RES
R239		W125 1K02 0.1% 0805 SMT RES
R240		W100 4K99 1% 0805 SMT RES
R241		W100 10K0 1% 0805 SMT RES
R242		W100 10K0 1% 0805 SMT RES
R243A		W125 47R 5% 0805 SMT RES
R243B		W125 47R 5% 0805 SMT RES
R244		W100 10K0 1% 0805 SMT RES
R245		W100 220K 5% 0603 SMT RES
R246		W100 220K 5% 0603 SMT RES
R248		W100 10K0 1% 0805 SMT RES
R249		W125 1K02 0.1% 0805 SMT RES
R250A		W063 10R 5% 0603 SMT RES
R250B		W063 10R 5% 0603 SMT RES
R251		W100 100R 1% 0805 SMT RES
R252		W125 1K02 0.1% 0805 SMT RES
R253		W100 100R 1% 0805 SMT RES
R255A		W063 10R 5% 0603 SMT RES
R255B		W063 10R 5% 0603 SMT RES
R256A		W063 10R 5% 0603 SMT RES
R256B		W063 10R 5% 0603 SMT RES
R258		W063 49R9 1% 0603 SMT RES
R259		W125 1K02 0.1% 0805 SMT RES
R260		W125 1K02 0.1% 0805 SMT RES
R261		W125 47R 5% 0805 SMT RES
R262		W063 10R 5% 0603 SMT RES
R263		W125 1K02 0.1% 0805 SMT RES
R264		W125 1K02 0.1% 0805 SMT RES
R265		W125 47R 5% 0805 SMT RES
R266		W063 10R 5% 0603 SMT RES
R267		W063 49R9 1% 0603 SMT RES
R268		W063 49R9 1% 0603 SMT RES
R269		W063 49R9 1% 0603 SMT RES
R270		W063 49R9 1% 0603 SMT RES
R271		W063 49R9 1% 0603 SMT RES
R272		W125 470R 5% 0805 SMT RES
R273		W063 49R9 1% 0603 SMT RES
R274		W125 47R 5% 0805 SMT RES
R275A		W125 1K02 0.1% 0805 SMT RES
R275B		W125 1K02 0.1% 0805 SMT RES
R276A		W125 1K02 0.1% 0805 SMT RES
R276B		W125 1K02 0.1% 0805 SMT RES
R277A		W125 1K02 0.1% 0805 SMT RES
R277B		W125 1K02 0.1% 0805 SMT RES
R278		W125 1K02 0.1% 0805 SMT RES
R279		W125 1K02 0.1% 0805 SMT RES
R280		W125 1K02 0.1% 0805 SMT RES
R281		W125 562R0 1% 0805 SMT RES
R282		W125 562R0 1% 0805 SMT RES
R283		W125 562R0 1% 0805 SMT RES
R284		W125 1K02 0.1% 0805 SMT RES
R285		W125 1K02 0.1% 0805 SMT RES
R286		W125 1K02 0.1% 0805 SMT RES
R287		W100 100R 1% 0805 SMT RES
R288		W063 49R9 1% 0603 SMT RES
R289		W063 49R9 1% 0603 SMT RES
R290		W063 49R9 1% 0603 SMT RES
R291		W125 470R 5% 0805 SMT RES
R292		W063 49R9 1% 0603 SMT RES
R293		W063 49R9 1% 0603 SMT RES
R294		W063 49R9 1% 0603 SMT RES
R295		W063 49R9 1% 0603 SMT RES
R296		W250 22R 5% 1206 SMT RES
R297		W250 22R 5% 1206 SMT RES
R298		W250 22R 5% 1206 SMT RES
R299		W250 22R 5% 1206 SMT RES
R300		W250 22R 5% 1206 SMT RES
R301		W250 22R 5% 1206 SMT RES
R302		W250 22R 5% 1206 SMT RES
R303		W250 22R 5% 1206 SMT RES
R304		W250 22R 5% 1206 SMT RES
R305		W125 47R 5% 0805 SMT RES
R306		W100 10K0 1% 0805 SMT RES
S1	3522	DPDT MINI PC VERT SNP ALT
S2	3440	4PDT MINI VERT ALT SWITCH
S3	3440	4PDT MINI VERT ALT SWITCH
S4	3522	DPDT MINI PC VERT SNP ALT
SNL1	8370	1 MIL POLYIMIDE LABEL, 1" X .380"
SNL2	8370	1 MIL POLYIMIDE LABEL, 1" X .380"
U1		ADAU1445 DIG AUDIO IC SMT LQFP100
U2		TL072 DUAL OPAMP SMT SO-8
U3A		33078 DUAL OPAMP SMT SO-8
U3B		33078 DUAL OPAMP SMT SO-8
U4A		33078 DUAL OPAMP SMT SO-8
U4B		33078 DUAL OPAMP SMT SO-8
U5		33078 DUAL OPAMP SMT SO-8
U6		TL072 DUAL OPAMP SMT SO-8
U7		33078 DUAL OPAMP SMT SO-8
U8		33078 DUAL OPAMP SMT SO-8
U9		TL072 DUAL OPAMP SMT SO-8
U10		PCM3168A AUDIO CODEC HTQFP64 SMT
U11		MC7815BDTG POS REG SMT DPAK3
U12		MKL15Z64VLH4 48MHZ MCU SMT LQFP64
U13		BM23 BLUETOOTH DIGITAL SMT MOD V2
U14		TL072 DUAL OPAMP SMT SO-8
U15		TL072 DUAL OPAMP SMT SO-8
U16		PCM1808 24B ST ADC IC SMT TSSOP14
U17		L5970AD 3V3 ADJ REG 1A5 SMT SO8
U18		L5970AD 3V3 ADJ REG 1A5 SMT SO8
U19		33078 DUAL OPAMP SMT SO-8
U20		33078 DUAL OPAMP SMT SO-8
U21		33078 DUAL OPAMP SMT SO-8
U22		MC79M15CDTG NEG REG SMT DPAK3
U23		PCM1808 24B ST ADC IC SMT TSSOP14
U24		33078 DUAL OPAMP SMT SO-8
U25		33078 DUAL OPAMP SMT SO-8
U26A		33078 DUAL OPAMP SMT SO-8
U26B		33078 DUAL OPAMP SMT SO-8
U27		33078 DUAL OPAMP SMT SO-8
U28		LM1117 REGULATOR 5V0 SMT SOT223
W2	2381	09 CIR XH-HEADER RA 0.098IN
W3	3543	4 PIN BREAKAWAY RA 90 LOCK .1563
Y1		11.2896MHZ CRYSTAL 4-PIN SMT

M1608 PG1 Parts Reference List 8/5/2021

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
AI-ASS	M1608-59	EXM400CE POWER AMP BOARD	C49		1N 50V 5%CAP 0805 SMT NPO	D3B		MURS120T3 200V 1A DIO DO214AA SMT	L1A	6537	20UH CHOKE TOROIDAL 0R042	R13A		W500 10R 5% 1210 SMT RES
B+L	5299	24AWG SOLID SC WIR RAD JMP	C50	6451	4N7 250V 20%CAP BLK 'Y' 10MM AC	D4A		MURS120T3 200V 1A DIO DO214AA SMT	L1B	6537	20UH CHOKE TOROIDAL 0R042	R13B		W500 10R 5% 1210 SMT RES
B+R	5299	24AWG SOLID SC WIR RAD JMP	C51		1U0 50V 10%CAP 1206 SMT CER	D4B		MURS120T3 200V 1A DIO DO214AA SMT	L2	3818	EMI SUPPRESSION FERRITE BEAD T&R	R14A		W250 10R 5% 1206 SMT RES
B-L	5299	24AWG SOLID SC WIR RAD JMP	C52	5864	1000U 35V 20%CAP BLK 12X25MM EL	D5		MMSZ15T1G 15V 0W5 5% SMT ZEN	L3	3101	15UH COIL VTM160-4 33T 19AWG	R14B		W250 10R 5% 1206 SMT RES
B-R	5299	24AWG SOLID SC WIR RAD JMP	C53		1U0 50V 10%CAP 1206 SMT CER	D6		CDSF4148 75V 0A15 1005 SMT	L4	3818	EMI SUPPRESSION FERRITE BEAD T&R	R15A		W250 10R 5% 1206 SMT RES
C1A		100N 100V 10%CAP 1206 SMT X7R	C54	5262	1U 275V 20%CAP BLK 'X2'26.0MM AC	D8A		MMBD1401 DIODE 0A2 SOT23 SMT	L5	7974	1000UH 10% COIL 12MM SMT	R15B		W250 10R 5% 1206 SMT RES
C1B		100N 100V 10%CAP 1206 SMT X7R	C55		470N 50V 5%CAP 1206 SMT X7R	D8B		MMBD1401 DIODE 0A2 SOT23 SMT	L6	6500	2700UH COIL COMMON MODE 7AMP	R16		W125 68R1 1% 0805 SMT RES
C2A		150P 100V 5%CAP 0805 SMTNPO	C56		1U0 50V 10%CAP 1206 SMT CER	D9A		MMBD1401 DIODE 0A2 SOT23 SMT	L7	3818	EMI SUPPRESSION FERRITE BEAD T&R	R17		W100 100R 1% 0805 SMT RES
C2B		150P 100V 5%CAP 0805 SMTNPO	C57	5864	1000U 35V 20%CAP BLK 12X25MM EL	D9B		MMBD1401 DIODE 0A2 SOT23 SMT	L8	6500	2700UH COIL COMMON MODE 7AMP	R18A		W125 5K36 1% 0805 SMT RES
C3A	5260	22U 50V 20%CAP T&R RAD .2EL	C58	6451	4N7 250V 20%CAP BLK 'Y' 10MM AC	D10L		BAS21L 250V 200MA SOT23 SMT	L9		220UH COIL 10X10MM SMT	R18B		W125 5K36 1% 0805 SMT RES
C3B	5260	22U 50V 20%CAP T&R RAD .2EL	C59		100N 50V 5%CAP 0805 SMT X7R	D10R		BAS21L 250V 200MA SOT23 SMT	L10		220UH COIL 10X10MM SMT	R19		W100 100R 1% 0805 SMT RES
C4A		100N 100V 10%CAP 1206 SMT X7R	C60		1N 50V 5%CAP 0805 SMT NPO	D11L		CDSF4148 75V 0A15 1005 SMT	L11		3.8UH COIL 10X10MM SMT	R20L		W500 2K2 5% 2010 SMT RES
C4B		100N 100V 10%CAP 1206 SMT X7R	C61		100N 50V 5%CAP 0805 SMT X7R	D11R		CDSF4148 75V 0A15 1005 SMT	L12		3.8UH COIL 10X10MM SMT	R20R		W500 2K2 5% 2010 SMT RES
C5A		10N 50V 10%CAP 0805 SMT X7R	C62	5516	47N 2000V 10%CAP AXL POLYPROP BULK	D12L		CDSF4148 75V 0A15 1005 SMT	LD1A		GRN CLR LED 2V0 20MA PLCC2 SMT	R21A		W250 10R 5% 1206 SMT RES
C5B		10N 50V 10%CAP 0805 SMT X7R	C63		100N 50V 5%CAP 0805 SMT X7R	D12R		CDSF4148 75V 0A15 1005 SMT	LD1B		GRN CLR LED 2V0 20MA PLCC2 SMT	R21B		W250 10R 5% 1206 SMT RES
C6	5260	22U 50V 20%CAP T&R RAD .2EL	C64	5199	100P 100V 2%CAP T&R RAD CER.2NPO	D13L		CDSF4148 75V 0A15 1005 SMT	LD2		GRN CLR LED 2V0 20MA PLCC2 SMT	R22		W250 22R 5% 1206 SMT RES
C7A		1U0 50V 10%CAP 1206 SMT CER	C65		10U 16V 10%CAP 1206 SMT X7R	D13R		CDSF4148 75V 0A15 1005 SMT	P2L	4526	10K TRIM POT 6MM TOP ADJ RAD	R23A		W125 8K25 1% 0805 SMT RES
C7B		1U0 50V 10%CAP 1206 SMT CER	C66		100N 50V 5%CAP 0805 SMT X7R	D14L		BAS21L 250V 200MA SOT23 SMT	P2R	4526	10K TRIM POT 6MM TOP ADJ RAD	R23B		W125 8K25 1% 0805 SMT RES
C8A	5942	3U3 100DC10%CAP BLK RAD POLYE FLM	C67		1U0 50V 10%CAP 1206 SMT CER	D14R		BAS21L 250V 200MA SOT23 SMT	PCB1	X8023BLANK	2 OZ 2SD 76.23 SQIN 01PER EXM400	R24A		W125 3K32 1% 0805 SMT RES
C8B	5942	3U3 100DC10%CAP BLK RAD POLYE FLM	C68	5840	22N 400V 10%CAP BLK RAD POLY FLM	D15A		MMBD1401 DIODE 0A2 SOT23 SMT	Q1A		IRFS4620PBF NCH MFET D2PAK SMT TR	R24B		W125 3K32 1% 0805 SMT RES
C9		6N8 50V 5%CAP 1206 SMT X7R	C69	5840	22N 400V 10%CAP BLK RAD POLY FLM	D15B		MMBD1401 DIODE 0A2 SOT23 SMT	Q1B		IRFS4620PBF NCH MFET D2PAK SMT TR	R25A		W125 3K92 1% 0805 SMT RES
C10		6N8 50V 5%CAP 1206 SMT X7R	C70	5267	100U 25V 20%CAP T&R RAD .2EL	D16		CDSF4148 75V 0A15 1005 SMT	Q2A		IRFS4620PBF NCH MFET D2PAK SMT TR	R25B		W125 3K92 1% 0805 SMT RES
C11		1N 50V 5%CAP 0805 SMT NPO	C71		4U7 50V 10%CAP 1210 SMT CER	D17		CDSF4148 75V 0A15 1005 SMT	Q2B		IRFS4620PBF NCH MFET D2PAK SMT TR	R26		W100 15K0 1% 0805 SMT RES
C12		1N 50V 5%CAP 0805 SMT NPO	C72	6545	1N 250V 20%CAP BLK 'Y' 10MM AC	D19		BZX84C43 43V0 0W3 5% SMT ZEN	Q3		MJD243T4G NPN DPAK3 SMT TS	R27		W100 100R 1% 0805 SMT RES
C13A		150P 100V 5%CAP 0805 SMTNPO	C73	6545	1N 250V 20%CAP BLK 'Y' 10MM AC	D20		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	Q4L	6805	2SD2560 TO3P NPN TRAN DARL	R28L		W500 2K2 5% 2010 SMT RES
C13B		150P 100V 5%CAP 0805 SMTNPO	C74	5262	1U 275V 20%CAP BLK 'X2'26.0MM AC	D21		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	Q4R	6805	2SD2560 TO3P NPN TRAN DARL	R28R		W500 2K2 5% 2010 SMT RES
C14	5260	22U 50V 20%CAP T&R RAD .2EL	C75	5277	220P 200V 5%CAP T&R RAD CER.2NPO	D22		CDSF4148 75V 0A15 1005 SMT	Q5L		MMBT3904 NPN SOT-23 SMT	R30		W100 4K99 1% 0805 SMT RES
C15	5260	22U 50V 20%CAP T&R RAD .2EL	C76	5666	330U 400V 20%CAP BLK 25X40MM	D23		CDSF4148 75V 0A15 1005 SMT	Q5R		MMBT3904 NPN SOT-23 SMT	R31		W100 20K5 1% 0805 SMT RES
C16A	5260	22U 50V 20%CAP T&R RAD .2EL	C77	6545	1N 250V 20%CAP BLK 'Y' 10MM AC	D24		SBR10U200P5 200V 10A PDI5 SMT	Q6L		MMBTA64LT1G PNP DARL SOT-23 SMT	R32A		W250 22R 5% 1206 SMT RES
C16B	5260	22U 50V 20%CAP T&R RAD .2EL	C78	6545	1N 250V 20%CAP BLK 'Y' 10MM AC	D25		CDSF4148 75V 0A15 1005 SMT	Q6R		MMBTA64LT1G PNP DARL SOT-23 SMT	R32B		W250 22R 5% 1206 SMT RES
C17	5260	22U 50V 20%CAP T&R RAD .2EL	C79	5666	330U 400V 20%CAP BLK 25X40MM	D26		CDSF4148 75V 0A15 1005 SMT	Q7L		MMBT3906LT1 PNP SOT-23 SMT T&R	R34L		W100 2K74 1% 0805 SMT RES
C18A		100N 100V 10%CAP 1206 SMT X7R	C80		1U0 50V 10%CAP 1206 SMT CER	D27		SBR10U200P5 200V 10A PDI5 SMT	Q7R		MMBT3906LT1 PNP SOT-23 SMT T&R	R34R		W100 2K74 1% 0805 SMT RES
C18B		100N 100V 10%CAP 1206 SMT X7R	C81		100N 50V 5%CAP 0805 SMT X7R	D28		CDSF4148 75V 0A15 1005 SMT	Q8L	6812	2SB1647 TO3P PNP TRAN DARL	R35L		W100 100R 1% 0805 SMT RES
C19A		100N 100V 10%CAP 1206 SMT X7R	C82		470N 50V 5%CAP 1206 SMT X7R	D29		BZX84B5V1 5V1 0W2 SOT-23 SMT ZEN	Q8R	6812	2SB1647 TO3P PNP TRAN DARL	R35R		W100 100R 1% 0805 SMT RES
C19B		100N 100V 10%CAP 1206 SMT X7R	C83		100N 50V 5%CAP 0805 SMT X7R	D30		MURA240T3 400V 2A DIO 403D SMT	Q9		MMBT3906LT1 PNP SOT-23 SMT T&R	R36L		W125 47R 5% 0805 SMT RES
C20		10P 50V 10%CAP 0805 SMT NPO	C84		10U 10V 10%CAP 1206 SMT X5R	D31		ES1H 500V 1A0 D214 UPGT 8814	Q10		MMBT3906LT1 PNP SOT-23 SMT T&R	R36R		W125 47R 5% 0805 SMT RES
C21L		5N6 50V 5%CAP 0805 SMT C0G	C85L		100N 100V 10%CAP 1206 SMT X7R	D32		MURA240T3 400V 2A DIO 403D SMT	Q11		MMBT3906LT1 PNP SOT-23 SMT T&R	R37L		W100 150R 5% 0805 SMT RES
C21R		5N6 50V 5%CAP 0805 SMT C0G	C85R		100N 100V 10%CAP 1206 SMT X7R	D33	6772	BRIDGE 25A 400V WIRE LEAD SIP	Q12		MMBT3906LT1 PNP SOT-23 SMT T&R	R37R		W100 150R 5% 0805 SMT RES
C22A		100N 100V 10%CAP 1206 SMT X7R	C86L		100N 100V 10%CAP 1206 SMT X7R	D34		CDSF4148 75V 0A15 1005 SMT	Q13		MMBT3904 NPN SOT-23 SMT	R38L		1W00 0R047 5% 2512 SMT RES
C22B		100N 100V 10%CAP 1206 SMT X7R	C86R		100N 100V 10%CAP 1206 SMT X7R	D35		CDSF4148 75V 0A15 1005 SMT	Q14		MMBT3904 NPN SOT-23 SMT	R38R		1W00 0R047 5% 2512 SMT RES
C23A		100N 100V 10%CAP 1206 SMT X7R	C87		470N 50V 5%CAP 1206 SMT X7R	D36		MM3Z12VT1G 12V0 0W2 5% SMT ZEN	Q15		FDN5618 PCH MFET SOT-23 SMT	R39L		W125 10R0 1% 0805 SMT RES
C23B		100N 100V 10%CAP 1206 SMT X7R	C88		10N 50V 10%CAP 0805 SMT X7R	D37		SBR10U200P5 200V 10A PDI5 SMT	Q16	6786	IPP65R225C7 TO220 NCH MFET	R39R		W125 10R0 1% 0805 SMT RES
C24L	5630	330U 25V 20%CAP BLK 10X13MM EL	C89		10N 50V 10%CAP 0805 SMT X7R	D38		SBR10U200P5 200V 10A PDI5 SMT	Q17		TL431A 3 TERM ADJ VREG SMT SOT-23	R40L		W333 33R 5% 1210 SMT RES
C24R	5630	330U 25V 20%CAP BLK 10X13MM EL	C90		100N 50V 5%CAP 0805 SMT X7R	D39L		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	Q18	6786	IPP65R225C7 TO220 NCH MFET	R40R		W333 33R 5% 1210 SMT RES
C25	5257	2U2 63V 20%CAP T&R RAD .2EL	C91		1N 50V 5%CAP 0805 SMT NPO	D39R		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	Q19		MMBT4401 NPN SOT-23 SMT	R41L		W125 8K25 1% 0805 SMT RES
C26L		2N7 100V 10%CAP 0805 SMT C0G	C92		2N7 100V 10%CAP 0805 SMT C0G	D40L		CDSF4148 75V 0A15 1005 SMT	Q20		MC78M05BDTR POS REG SMT DPAK3	R41R		W125 8K25 1% 0805 SMT RES
C26R		2N7 100V 10%CAP 0805 SMT C0G	C93	5260	22U 50V 20%CAP T&R RAD .2EL	D40R		CDSF4148 75V 0A15 1005 SMT	Q21		MMBT3906LT1 PNP SOT-23 SMT T&R	R42L		W100 27K4 1% 0805 SMT RES
C27L	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C94	9961	10N 500V 20%CAP RAD CER DISC BULK	D41L		CDSF4148 75V 0A15 1005 SMT	Q22		MMBT4401 NPN SOT-23 SMT	R42R		W100 27K4 1% 0805 SMT RES
C27R	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C95		1U0 50V 10%CAP 1206 SMT CER	D41R		CDSF4148 75V 0A15 1005 SMT	Q23L		MMBF4391LT1 NCH JFET SOT-23 SMT T&R	R43L		PTC RESETTABLE 1.5A 6V 1812L SMT
C28L		100N 50V 5%CAP 0805 SMT X7R	C96	5260	22U 50V 20%CAP T&R RAD .2EL	D42		MMBZ5246B 16V0 0W35 5% SMT ZEN3	Q23R		MMBF4391LT1 NCH JFET SOT-23 SMT T&R	R43R		PTC RESETTABLE 1.5A 6V 1812L SMT
C28R		100N 50V 5%CAP 0805 SMT X7R	C97	5260	22U 50V 20%CAP T&R RAD .2EL	D43		CDSF4148 75V 0A15 1005 SMT	Q24		MMBT3906LT1 PNP SOT-23 SMT T&R	R44L		W100 15K0 1% 0805 SMT RES
C29L	5630	330U 25V 20%CAP BLK 10X13MM EL	C98		100N 50V 5%CAP 0805 SMT X7R	D44		CDBF0130L 30V 1A SCH SOD323F SMT	Q25		MMBT3904 NPN SOT-23 SMT	R44R		W100 15K0 1% 0805 SMT RES
C29R	5630	330U 25V 20%CAP BLK 10X13MM EL	C99		100N 50V 5%CAP 0805 SMT X7R	D45		BZX84B5V1 5V1 0W2 SOT-23 SMT ZEN	Q26		MMBT3904 NPN SOT-23 SMT	R45L		W100 2K0 1% 0805 SMT RES
C30L		1N 50V 5%CAP 0805 SMT NPO	C100A	5240	680N 63V 10%CAP T&R RAD .2FLM	D46		CDSF4148 75V 0A15 1005 SMT	Q27	6622	10R 20% THERMISTOR NTC	R45R		W100 2K0 1% 0805 SMT RES
C30R		1N 50V 5%CAP 0805 SMT NPO	C100B	5240	680N 63V 10%CAP T&R RAD .2FLM	D47		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	Q28	6977	FDT3612 NCH MFET SOT-223 SMT	R46L		W100 10K0 1% 0805 SMT RES
C31	5827	150N 250V 20%CAP BLK 'X2' 15MM AC	C101		47P 100V 5%CAP 0805 SMT NPO	D48		CDSF4148 75V 0A15 1005 SMT	Q29		MC79M05BDTR POS REG SMT DPAK3	R46R		W100 10K0 1% 0805 SMT RES
C32L		2N7 100V 10%CAP 0805 SMT C0G	C102	5260	22U 50V 20%CAP T&R RAD .2EL	D49		MM3Z18VT1G 18V0 0W2 5% SMT ZEN	Q30		MMBT3904 NPN SOT-23 SMT	R47L		W500 10R 5% 1210 SMT RES
C32R		2N7 100V 10%CAP 0805 SMT C0G	C103	5199	100P 100V 2%CAP T&R RAD CER.2NPO	D50		CDSF4148 75V 0A15 1005 SMT	Q31		MMBT3906LT1 PNP SOT-23 SMT T&R	R47R		W500 10R 5% 1210 SMT RES
C33L		47P 100V 5%CAP 0805 SMT NPO	C104	5199	100P 100V 2%CAP T&R RAD CER.2NPO	D51		MM3Z10VT1G 10V0 0W2 5% SMT ZEN	Q32		MMBT3904 NPN SOT-23 SMT	R48L		PTC RESETTABLE 1.5A 6V 1812L SMT
C33R		47P 100V 5%CAP 0805 SMT NPO	C105		100N 50V 5%CAP 0805 SMT X7R	D52		MM3Z10VT1G 10V0 0W2 5% SMT ZEN	R1A		W100 20K5 1% 0805 SMT RES	R48R		PTC RESETTABLE 1.5A 6V 1812L SMT
C34L	5210	22N 100V 10%CAP T&R RAD .2FLM	C106		100N 50V 5%CAP 0805 SMT X7R	D53		CDBF0130L 30V 1A SCH SOD323F SMT	R1B		W100 20K5 1% 0805 SMT RES	R49L		W125 34K0 1% 0805 SMT RES
C34R	5210	22N 100V 10%CAP T&R RAD .2FLM	C110	5860	3300U 35V 20%CAP BLK 16X35.5MM EL	F1		FUSE SLOW 0A500 63VDC SMT 1206	R2A		W100 10K0 1% 0805 SMT RES	R49R		W125 34K0 1% 0805 SMT RES
C35L	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C111	5860	3300U 35V 20%CAP BLK 16X35.5MM EL	F2		FUSE FAST 0A250 125V SMT 1206	R2B		W100 10K0 1% 0805 SMT RES	R50L		W125 8K25 1% 0805 SMT RES
C35R	5282	10U 16V 20%CAP T&R 5X7MM .2NP	C112	5860	3300U 35V 20%CAP BLK 16X35.5MM EL	HW2	9067	1/8X5/16XID.64 NYLON SPACER	R3A		W125 5K36 1% 0805 SMT RES	R50R		W125 8K25 1% 0805 SMT RES
C36L		5N6 50V 5%CAP 0805 SMT C0G	C118	5860	3300U 35V 20%CAP BLK 16X35.5MM EL	HW4	9067	1/8X5/16XID.64 NYLON SPACER	R3B		W125 5K36 1% 0805 SMT RES	R51L		W100 1K0 1% 0805 SMT RES
C36R		5N6 50V 5%CAP 0805 SMT C0G	C119	5860	3300U 35V 20%CAP BLK 16X35.5MM EL	HW5	9067	1/8X5/16XID.64 NYLON SPACER	R4A		W125 3K92 1% 0805 SMT RES	R51R		W100 1K0 1% 0805 SMT RES
C37L		270P 50V 5%CAP 0805 SMT NPO	C120	5860	3300U 35V 20%CAP BLK 16X35.5MM EL	HW6	9067	1/8X5/16XID.64 NYLON SPACER	R4B		W125 3K92 1% 0805 SMT RES	R52L		W125 10R0 1% 0805 SMT RES
C37R		270P 50V 5%CAP 0805 SMT NPO	C121	5267	100U 25V 20%CAP T&R RAD .2EL	HW7	9067	1/8X5/16XID.64 NYLON SPACER	R5A		W100 220R 1% 0603 SMT RES	R52R		W125 10R0 1% 0805 SMT RES
C38	5267	100U 25V 20%CAP T&R RAD .2EL	C122	5267	100U 25V 20%CAP T&R RAD .2EL	HW8	6638	HEATSINK TO-220 W/TAB 13X25X29 BLK	R5B		W100 220R 1% 0603 SMT RES	R53L		W333 33R 5% 1210 SMT RES
C39		100N 50V 5%CAP 0805 SMT X7R	C123		100N 50V 5%CAP 0805 SMT X7R	HW9	6638	HEATSINK TO-220 W/TAB 13X25X29 BLK	R6A		W500 10R 5% 1210 SMT RES	R53R		W333 33R 5% 1210 SMT RES
C40A	5942	3U3 100DC10%CAP BLK RAD POLYE FLM	C124		100N 50V 5%CAP 0805 SMT X7R	HW10	8865	4-40X5/16 PAN PH MS BO&W	R6B		W500 10R 5% 1210 SMT RES	R54L		W100 15K0 1% 0805 SMT RES
C40B	5942	3U3 100DC10%CAP BLK RAD POLYE FLM	C125A		100N 50V 5%CAP 0805 SMT X7R	HW11	8865	4-40X5/16 PAN PH MS BO&W	R7A		W250 22R 5% 1206 SMT RES	R54R		W100 15K0 1% 0805 SMT RES
C41		470N 50V 5%CAP 1206 SMT X7R	C125B		100N 50V 5%CAP 0805 SMT X7R	HW13	8701	4-40 KEPS NUT ZINC	R7B		W250 22R 5% 1206 SMT RES	R55L		1W00 0R047 5% 2512 SMT RES
C42	5260	22U 50V 20%CAP T&R RAD .2EL	C126A		1U0 50V 10%CAP 1206 SMT CER	HW14	3501	COMPRESSION WASHER	R8A		W250 22R 5% 1206 SMT RES	R55R		1W00 0R047 5% 2512 SMT RES
C43		270P 50V 5%CAP 0805 SMT NPO	C126B		1U0 50V 10%CAP 1206 SMT CER	HW15	3501	COMPRESSION WASHER	R8B		W250 22R 5% 1206 SMT RES	R56L		W100 150R 5% 0805 SMT RES
C44		270P 50V 5%CAP 0805 SMT NPO	D1A		MURS120T3 200V 1A DIO DO214AA SMT	HW16	8701	4-40 KEPS NUT ZINC	R9		W125 3K32 1% 0805 SMT RES	R56R		W100 150R 5% 0805 SMT RES
C45		47P 500V 10%CAP 1206 SMT C0G	D1B		MURS120T3 200V 1A DIO DO214AA SMT	HW17	9067	1/8X5/16XID.64 NYLON SPACER	R10		W100 301R 1% 0805 SMT RES	R57L		W100 15K0 1% 0805 SMT RES
C46	5421	1N 630VDC 10%CAP BLK MPP	D2A		MURS120T3 200V 1A DIO DO214AA SMT	HW18	9067	1/8X5/16XID.64 NYLON SPACER	R11A		W250 22R 5% 1206 SMT RES	R57R		W100 15K0 1% 0805 SMT RES
C47	5945	10U 63V 20%CAP T&R RAD .2EL	D2B		MURS120T3 200V 1A DIO DO214AA SMT	HW19	9067	1/8X5/16XID.64 NYLON SPACER	R11B		W250 22R 5% 1206 SMT RES	R58L		W100 1K0 1% 0805 SMT RES
C48		100N 100V 10%CAP 1206 SMT X7R	D3A		MURS120T3 200V 1A DIO DO214AA SMT	K1	3105	RELAY 1C 10AMP DC12 030MA PC-C	R12		W125 100K 5% 0805 SMT RES	R58R		W100 1K0 1% 0805 SMT RES

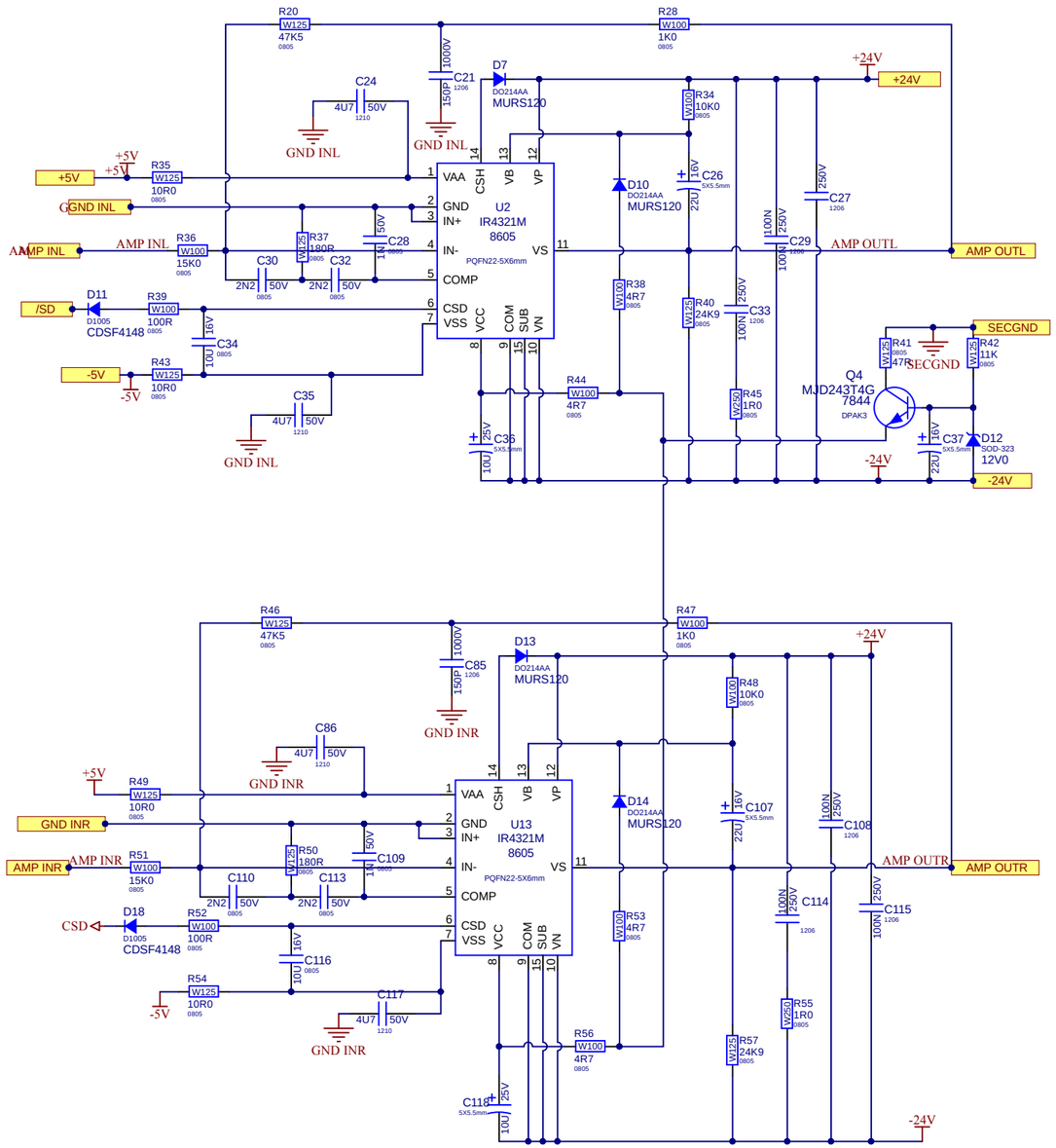
M1608 PG2 Parts Reference List 8/5/2021

REF	YS #	Description	REF	YS #	Description	REF	YS #	Description
R59L		W125 47R 5% 0805 SMT RES	R135		W100 301R 1% 0805 SMT RES	TP5		TEST POINT MINIATURE SMT
R59R		W125 47R 5% 0805 SMT RES	R136		W250 10R 5% 1206 SMT RES	TP6A		TEST POINT MINIATURE SMT
R60L		W500 2K2 5% 2010 SMT RES	R137		W250 475R 1% 1206 SMT RES	TP6B		TEST POINT MINIATURE SMT
R60R		W500 2K2 5% 2010 SMT RES	R138		W250 10R 5% 1206 SMT RES	TP7		TEST POINT MINIATURE SMT
R61L		W100 100R 1% 0805 SMT RES	R139		W250 100K 5% 1206 SMT RES	TP8		TEST POINT MINIATURE SMT
R61R		W100 100R 1% 0805 SMT RES	R144		W250 22R 5% 1206 SMT RES	TP9		TEST POINT MINIATURE SMT
R62L		W500 2K2 5% 2010 SMT RES	R145		W250 100K 5% 1206 SMT RES	TP11		TEST POINT MINIATURE SMT
R62R		W500 2K2 5% 2010 SMT RES	R146		W100 100R 1% 0805 SMT RES	TP12		TEST POINT MINIATURE SMT
R65		_10K 5% THERMISTOR NTC 0603 SMT	R147		W250 100K 5% 1206 SMT RES	TP13		TEST POINT MINIATURE SMT
R66		W125 100K 5% 0805 SMT RES	R148		W250 100K 5% 1206 SMT RES	TP14		TEST POINT MINIATURE SMT
R67		W100 20K5 1% 0805 SMT RES	R149A		W100 12K1 1% 0603 SMT RES	TP15		TEST POINT MINIATURE SMT
R68		W125 698R 1% 0805 SMT RES	R149B		W100 12K1 1% 0603 SMT RES	TP16		TEST POINT MINIATURE SMT
R69		W125 100K 5% 0805 SMT RES	R150		W100 10K0 1% 0805 SMT RES	TP17		TEST POINT MINIATURE SMT
R70		W125 100K 5% 0805 SMT RES	R151		W125 47K5 1% 0805 SMT RES	U1A		IRS2092S DIG AUDIO AMP SMT SOIC16N
R71		W100 4K99 1% 0805 SMT RES	R152		W100 10K0 1% 0805 SMT RES	U1B		IRS2092S DIG AUDIO AMP SMT SOIC16N
R72		W100 10K0 1% 0805 SMT RES	R153		W100 10K0 1% 0805 SMT RES	U2L		33078 DUAL OPAMP SMT SO-8
R73		W125 3K32 1% 0805 SMT RES	R154	6619	10K 5% THERMISTOR VISH NTC	U2R		33078 DUAL OPAMP SMT SO-8
R74		W125 100K 5% 0805 SMT RES	R155		W125 698R 1% 0805 SMT RES	U3		FOD814A OPTO-COUPLER 4P SMT IC
R75		W100 10K0 1% 0805 SMT RES	R156L		W500 10R 5% 1210 SMT RES	U4		AD825 HS OPAMP JFET SO-8 SMT
R76		W100 10K0 1% 0805 SMT RES	R156R		W500 10R 5% 1210 SMT RES	U5		LNK304G OFFLINE SWITCH SMT SMD8B
R77		W100 10K0 1% 0805 SMT RES	R158		W100 100R 1% 0805 SMT RES	U6		TL431A 3 TERM ADJ VREG SMT SOT-23
R78		W100 10K0 1% 0805 SMT RES	R159		W125 3K32 1% 0805 SMT RES	U7		UCC25600 RES MODE CTRL SMT SO8
R79		W125 3K32 1% 0805 SMT RES	R160		W100 301R 1% 0805 SMT RES	U8		H11A1SM OPTO-COUPLER SMT 6PIN
R80		W125 47K5 1% 0805 SMT RES	R161		W100 4K99 1% 0805 SMT RES	U9		33078 DUAL OPAMP SMT SO-8
R81		W100 10K0 1% 0805 SMT RES	R162		W100 4K99 1% 0805 SMT RES	U10		ZXGD3005E6 DRIVER SMT SOT236
R82		W100 220R 1% 0603 SMT RES	R163		W500 220K 5% 1210 SMT RES	U11		ZXGD3005E6 DRIVER SMT SOT236
R83A	4734	5W00 3R9 5% BLK RES	R164		W500 220K 5% 1210 SMT RES	U12		33078 DUAL OPAMP SMT SO-8
R83B	4734	5W00 3R9 5% BLK RES	R165		W250 22R 5% 1206 SMT RES	W1	3417	6-32 SNAP IN SCREW TERM
R86		W250 4R7 5% 1206 SMT RES	R166		W125 0R 5% 0805 SMT RES	W2	3417	6-32 SNAP IN SCREW TERM
R87		W250 10R 5% 1206 SMT RES	R167		W100 1K0 1% 0805 SMT RES	W3	4151	4 PIN POWER PIN HEADER MALE POLZED
R88		W100 4K99 1% 0805 SMT RES	R168		W125 100K 5% 0805 SMT RES	W4	4160	3X2PIN 4.2MM RA HEADER VAL-U-LOK
R89L		W100 1K0 1% 0805 SMT RES	R169		W100 4K99 1% 0805 SMT RES	W6	4151	4 PIN POWER PIN HEADER MALE POLZED
R89R		W100 1K0 1% 0805 SMT RES	R170		W100 182K 1% 0805 SMT RES	W13	4162	2 PIN POWER PIN HEADER MALE POLZED
R90		W250 10R 5% 1206 SMT RES	R171		W100 4K99 1% 0805 SMT RES	W17	2381	09 CIR XH-HEADER RA 0.098IN
R91		W250 10R 5% 1206 SMT RES	R172		W125 10R0 1% 0805 SMT RES	X1L	5299	24AWG SOLID SC WIR RAD JMP
R92		_10K 5% THERMISTOR NTC 0805 SMT	R173		W125 68K 5% 0805 SMT RES	X1R	5299	24AWG SOLID SC WIR RAD JMP
R93L		W250 1M0 1% 1206 SMT RES	R174		W100 1K0 1% 0805 SMT RES	X2L	5299	24AWG SOLID SC WIR RAD JMP
R93R		W250 1M0 1% 1206 SMT RES	R176		W250 100K 5% 1206 SMT RES	X2R	5299	24AWG SOLID SC WIR RAD JMP
R94		W250 10R 5% 1206 SMT RES	R177		W250 100K 5% 1206 SMT RES	X5L	5299	24AWG SOLID SC WIR RAD JMP
R95		W100 39R 5% 0805 SMT RES	R178		W100 4K99 1% 0805 SMT RES	X5R	5299	24AWG SOLID SC WIR RAD JMP
R96		W125 698R 1% 0805 SMT RES	R179		W125 1M 5% 0805 SMT RES	X6L	5299	24AWG SOLID SC WIR RAD JMP
R97		W250 4R7 5% 1206 SMT RES	R180		W100 20K5 1% 0805 SMT RES	X6R	5299	24AWG SOLID SC WIR RAD JMP
R98		2W00 33R 1% 2512 SMT RES	R181		W500 2K2 5% 2010 SMT RES	X10	5299	24AWG SOLID SC WIR RAD JMP
R99		W250 1M0 1% 1206 SMT RES	R182		W100 20K5 1% 0805 SMT RES	X11	5299	24AWG SOLID SC WIR RAD JMP
R100L		W125 34K0 1% 0805 SMT RES	R183		W100 10K0 1% 0805 SMT RES	X12	5299	24AWG SOLID SC WIR RAD JMP
R100R		W125 34K0 1% 0805 SMT RES	R184		W100 100R 1% 0805 SMT RES	X14	5299	24AWG SOLID SC WIR RAD JMP
R101		W250 10R 5% 1206 SMT RES	R186A		W125 47K5 1% 0805 SMT RES	ZD1L		MM3Z10VT1G 10V0 0W2 5% SMT ZEN
R102		W125 1K800 0.1% 0805 SMT RES	R186B		W125 47K5 1% 0805 SMT RES	ZD1R		MM3Z10VT1G 10V0 0W2 5% SMT ZEN
R103		2W00 33R 1% 2512 SMT RES	R187A		1W00 1R0 5% 2512 SMT RES	ZD2L		MM3Z10VT1G 10V0 0W2 5% SMT ZEN
R104		W250 10R 5% 1206 SMT RES	R187B		1W00 1R0 5% 2512 SMT RES	ZD2R		MM3Z10VT1G 10V0 0W2 5% SMT ZEN
R105		W100 10K0 1% 0805 SMT RES	R188		W100 4K99 1% 0805 SMT RES	ZD3		MM3Z18VT1G 18V0 0W2 5% SMT ZEN
R106L		W125 34K0 1% 0805 SMT RES	R189		W100 20K5 1% 0805 SMT RES			
R106R		W125 34K0 1% 0805 SMT RES	R190		W125 47K5 1% 0805 SMT RES			
R107		W250 10R 5% 1206 SMT RES	R191		W125 47R 5% 0805 SMT RES			
R108		W100 39R 5% 0805 SMT RES	R192		W100 1K0 1% 0805 SMT RES			
R109		W100 4K99 1% 0805 SMT RES	R193		W100 20K5 1% 0805 SMT RES			
R110		W125 150K 5% 0805 SMT RES	R194		W100 301R 1% 0805 SMT RES			
R111		W125 150K 5% 0805 SMT RES	R195		W100 4K99 1% 0805 SMT RES			
R113		W125 10K2 1% 0805 SMT RES	R196		W125 34K0 1% 0805 SMT RES			
R114		W100 2K74 1% 0805 SMT RES	R197		W063 1K37 1% 0603 SMT RES			
R115		W100 1K0 1% 0805 SMT RES	R198		W100 20K5 1% 0805 SMT RES			
R116		W100 18K2 1% 0805 SMT RES	R199		W125 64K9 1% 0805 SMT RES			
R117		W063 1K62 1% 0603 SMT RES	R200		W063 1K37 1% 0603 SMT RES			
R118		W250 10R 5% 1206 SMT RES	R201		W063 1K37 1% 0603 SMT RES			
R119		W250 10R 5% 1206 SMT RES	R202		W100 4K99 1% 0805 SMT RES			
R120		W100 2K74 1% 0805 SMT RES	R203		W100 4K99 1% 0805 SMT RES			
R121		W100 18K2 1% 0805 SMT RES	R204		W100 4K99 1% 0805 SMT RES			
R122		W250 10R 5% 1206 SMT RES	R205		W100 4K99 1% 0805 SMT RES			
R123		W250 10R 5% 1206 SMT RES	R206		W100 4K99 1% 0805 SMT RES			
R124		1W00 2R0 1% 2512 SMT RES	R207		W100 4K99 1% 0805 SMT RES			
R125		W100 2K0 1% 0805 SMT RES	R208		W100 4K99 1% 0805 SMT RES			
R126		W125 3K32 1% 0805 SMT RES	R209		W100 4K99 1% 0805 SMT RES			
R127		W100 2K0 1% 0805 SMT RES	R210		W100 4K99 1% 0805 SMT RES			
R128		W100 1K0 1% 0805 SMT RES	R211		W100 100R 1% 0805 SMT RES			
R129		W125 1K47 1% 0805 SMT RES	T1		XF3955 GATE DRIVE XFMR SMT			
R130		W100 4K99 1% 0805 SMT RES	T2	1231	XFMR O/P 400W +/-24V ETD34			
R131		W125 34K0 1% 0805 SMT RES	T3		XF3955 GATE DRIVE XFMR SMT			
R132		W125 11K0 1% 0805 SMT RES	TP2		TEST POINT MINIATURE SMT			
R133		W125 1K5 5% 0805 SMT RES	TP3		TEST POINT MINIATURE SMT			
R134		_10K 5% THERMISTOR NTC 0805 SMT	TP4		TEST POINT MINIATURE SMT			

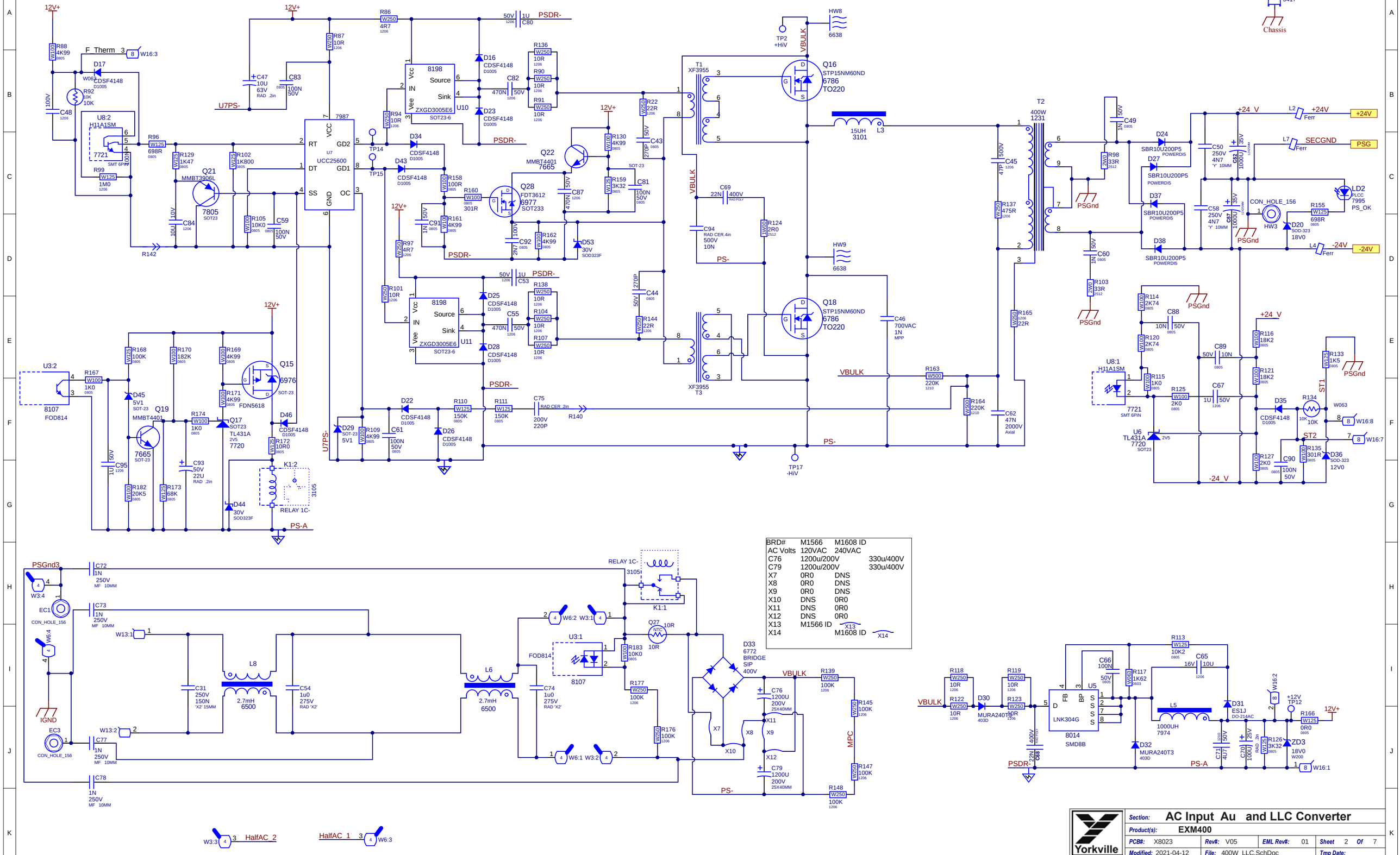
Protection
Protection.SchDoc
+24V
Prot_GND
-5V
+5V
AMP1
AMP2
SHUTDOWN
Mute
/SD
SecGND
W17:5 9 5 SHUTDOWN
W17:6 9 6 MUTE
Satellite Power Amp.SchDoc
Satellite Power Amp
-24V
AMP OUTR
-5V
AMP INR
GND INR
GND INL
AMP INL
/SD
+5V
SECGND
AMP OUTL
+24V
Sub_Amplifier
Sub_Amplifier.SchDoc
/SD
AmpIn
AmpInGnd
Amp+Out
Amp-Out
+24V
PSG
-24V
AMPOUT-
AMPOUT+
U12:1
MC33078
7817
U12:3
U12:2
SO8
+14V
-14V
SGnd
C123 0805 100N 50V
C124 100N 0805 50V
R30 W125 4K99 0805
R178 W125 4K99 0805
R195 W125 4K99 0805
R203 W125 4K99 0805
W17:4 9
W17:3 9
L9 8152 220UH
F1 0A500 SB 5143
W17:9 9
L10 8152 220UH
F2 5071 0A250
W17:7 9
HW12 CON_HOLE_156
C111 16X35MM 3300U 35V
C112 16X35MM 3300U 35V
C119 16X35MM 3300U 35V
C120 16X35MM 3300U 35V
C121 RAD .2in 25V 100U
C122 100U RAD .2in 25V
W17:8 9
D51 SOD-323 10V0
D52 SOD-323 10V0
R146 W100 100R 0805
R211 W100 100R 0805
+14V
-14V
TP3
TP4
U_PowerSupply
400W_LLC.SchDoc
PSG
+24V
-24V
TP5
TP9
U9:1
MC33078
SO8
7817
U9:2
W17:1 9
W17:2 9
R204 W125 4K99 0805
R205 W125 4K99 0805
R202 W125 4K99 0805
R224 W100 10K0 0805
R206 W100 10K0 0805
R208 W125 4K99 0805
R209 W125 4K99 0805
R207 W125 4K99 0805
R227 W100 10K0 0805
R210 W100 10K0 0805
INL
GND INL
INR
GND INR
C131 470N 50V 1206
C132 470N 1206 50V
SGND
L11 2921
L12 2921
AMP OUTL
L_AMP_OUT
L_AMP_GND
AMP OUTR
R_AMP_OUT
R_AMP_GND
C127 RAD POLY 305VAC 470N
C129 RAD POLY 305VAC 470N
C128 100N 100V 1206
C130 100N 100V 1206
R220 1W00 10R 2512
R221 1W00 10R 2512
D57 DO214AA MURS120
D54 DO214AA MURS120
D55 DO214AA MURS120
D56 DO214AA MURS120
W4:3
W4:6
W4:5
W4:2
W4:1
W4:4

Yorkville	Section: *Micro PA Amplifiers*		
	Product(s): **EXM400**		
	PCB# X8023	Rev# V05	Sheet 1 Of 7
	Date Modified: 2021-04-12	Filename: Top Sheet.SchDoc	

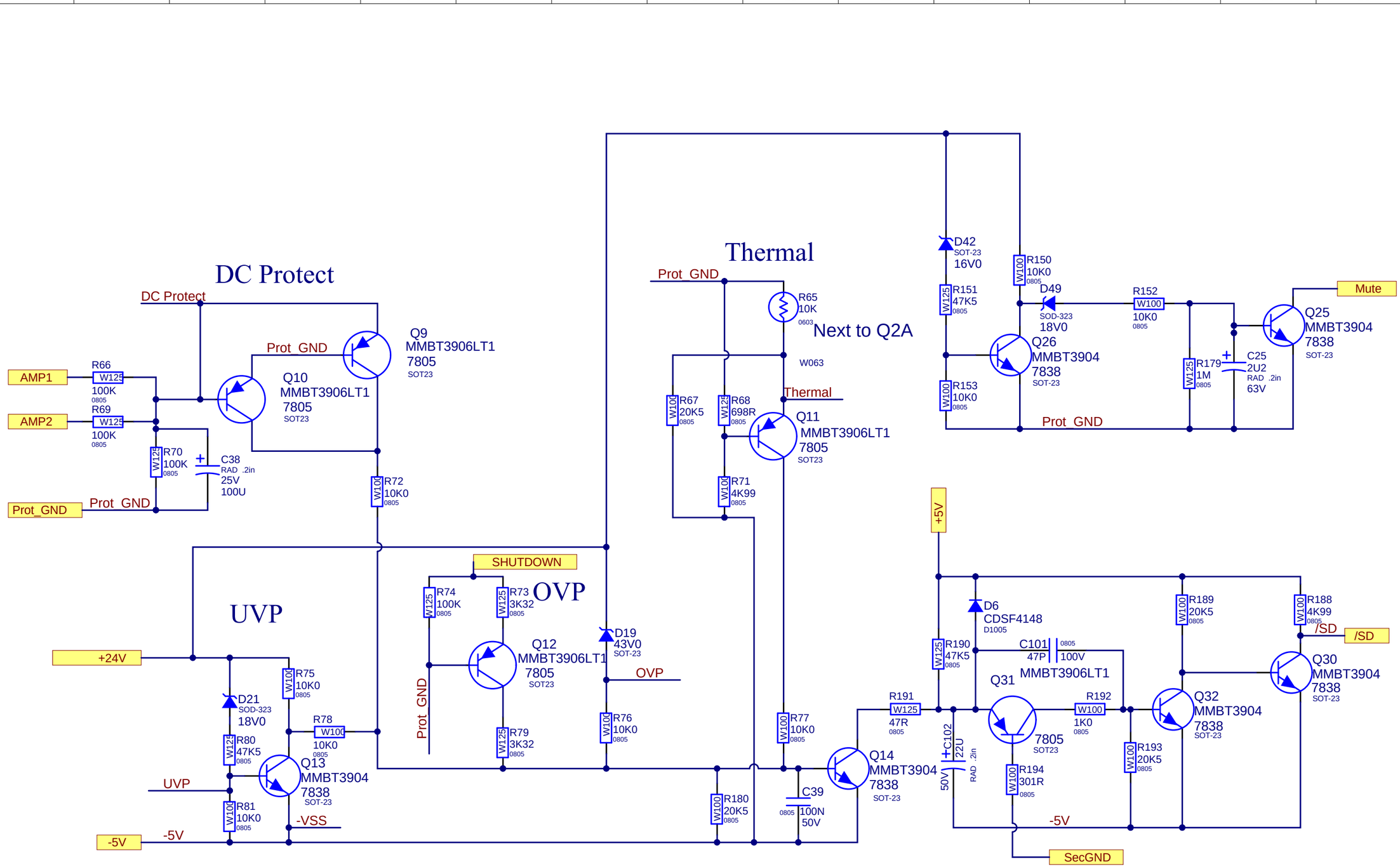
2x70W 4ohm +/-24Vdc +/-5Vdc



Section: Short name for the sheet E Section Powe			
Product(s): EXM400			
PCB#: X8023	Rev#: V05	EML Rev#: 01	Sheet 1 Of *
Modified: 2021-04-12	File: Satellite Power Amp.SchDoc		Tmp Rev: VXX



Section:	AC Input Au and LLC Converter				
Product(s):	EXM400				
PCB#: X8023	Rev#: V05	EML Rev#: 01	Sheet 2 Of 7		
Modified: 2021-04-12	File: 400W_LLC.SchDoc		Tmp Date:		



Section: Protection			
Product(s): EXM400			
PCB#: X8023	**Rev#:** V05	**EML Rev#:** 01	**Sheet** 3 **Of** 7
Modified: 2021-04-12	**File:** Protection.SchDoc		**Tmp Rev:** VXX

Q20
MC78M05B
IN OUT
GND
8208
DPAK3
+5V
TP13
+5V
R19 W100 0805 100R
C105 0805 100N 50V
C96 22U 50V .2in RAD
C17 22U 50V .2in RAD
C98 0805 100N 50V
C106 0805 100N 50V
C97 22U 50V .2in RAD
C14 22U 50V .2in RAD
C99 0805 100N 50V
GND
IN OUT
MC79M05B
Q29
8209
DPAK3
-5V
TP16
-5V
-14V
R95 W100 39R 0805
C51 50V 1U 1206
+14V
R108 W100 39R 0805
C56 50V 1U 1206
R198 W100 20K5 0805
C20 10P 50V 0805
R132 W100 11K0 0805
SO8
6767
AD825
U4
V-
V+
R196 W125 34K0 0805
C103 RAD CER .2in 100V 100P
R197 W063 1K37 0603
R200 W063 1K37 0603
C104 RAD CER .2in 100V 100P
R199 W125 64K9 0805
R201 W063 1K37 0603
C63 100N 50V 0805
R217
R218
R31 W100 20K5 0805
R27 W100 0805 100R
/SD
AmpIn
AmpInGnd
TP7
R12 W125 100K 0805
C6 RAD .2in 50V 22U
R10 W100 0805 301R
R9 W125 3K32 0805
C11 0805 1N 50V
TP11
C12 1N 50V 0805
R16 W125 68R1 0805
C9 50V 6N8 1206
C10 50V 6N8 1206
Frequency setting
resistor. 100KHz
+24V
PSG
-24V
A
Amplifier.SchDoc
/SD
AmpIn
AmpInGND
Freq
+5V
-5V
+24V
PSG
-24V
TP8
AMPOUT
FetOUT
Amp+Out
B
Amplifier.SchDoc
/SD
AmpIn
AmpInGND
Freq
+5V
-5V
+24V
PSG
-24V
TP8
AMPOUT
FetOUT
Amp-Out
R17 W100 0805 100R
Q3
MJD243T4G
7844
DPAK3
TP8
C41 470N 50V 1206
C42 22U 50V .2in RAD
C15 22U 50V .2in RAD
R26 W100 0805 15K0
D5
15V0
SOD-123
MMSZ15T1G
R184 W100 0805 100R
R82 W100 0603 220R
C64 RAD CER .2in 100V 100P

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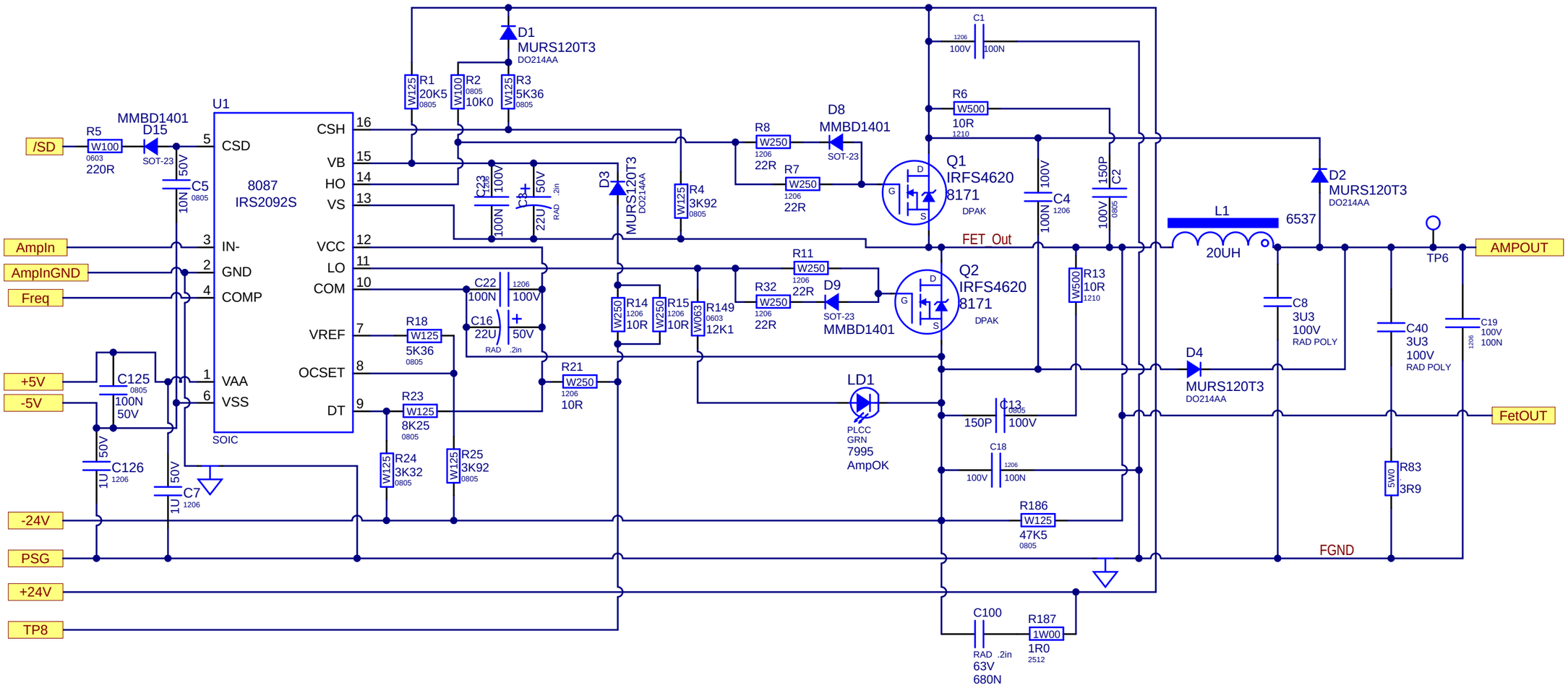
Section: SubAmp			
Product(s): EXM400			
PCB#: X8023	**Rev#:** V05	**EML Rev#:** 01	**Sheet** 5 **Of** 7
Modified: 2021-04-12	**File:** Sub_Amplifier.SchDoc		**Tmp Rev:** VXX



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Section: Amplifier			
Product(s): EXM400			
PCB#: X8023	**Rev#:** V05	**EML Rev#:** 01	**Sheet** 6 **Of** 7
Modified: 2021-04-12	**File:** Amplifier.SchDoc		**Tmp Rev:** VXX

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	07-APR-2015	V01	.	RELEASED FOR PRODUCTION
2	12-JUN-2015	V02	8772	C104 moved down so D3B is not hit during RAD operation
3	27-JAN-2016	V03	8847	Changed all 100N caps to YS 5979
4	10-MAR-2016	V04	8904	Add PTC protection. Add Zobel coils at sat output.
5	.	.	8899	DNS W11, W12, W15 and W16
6	.	.	8855	Move R303, R304 away from spacer.
7	10-OCT-2018	.	8955	Change R35R, R35L, R61R, R61L from YS#7854(47R 0805) to Ys#7624(100R 0805)
8	13-MAR-2019	.	9305	Reinforce pads of T2 with vias and in other high current areas
9	27-JAN-2021	V05	9581	Revised D class amp circuit for satellites
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
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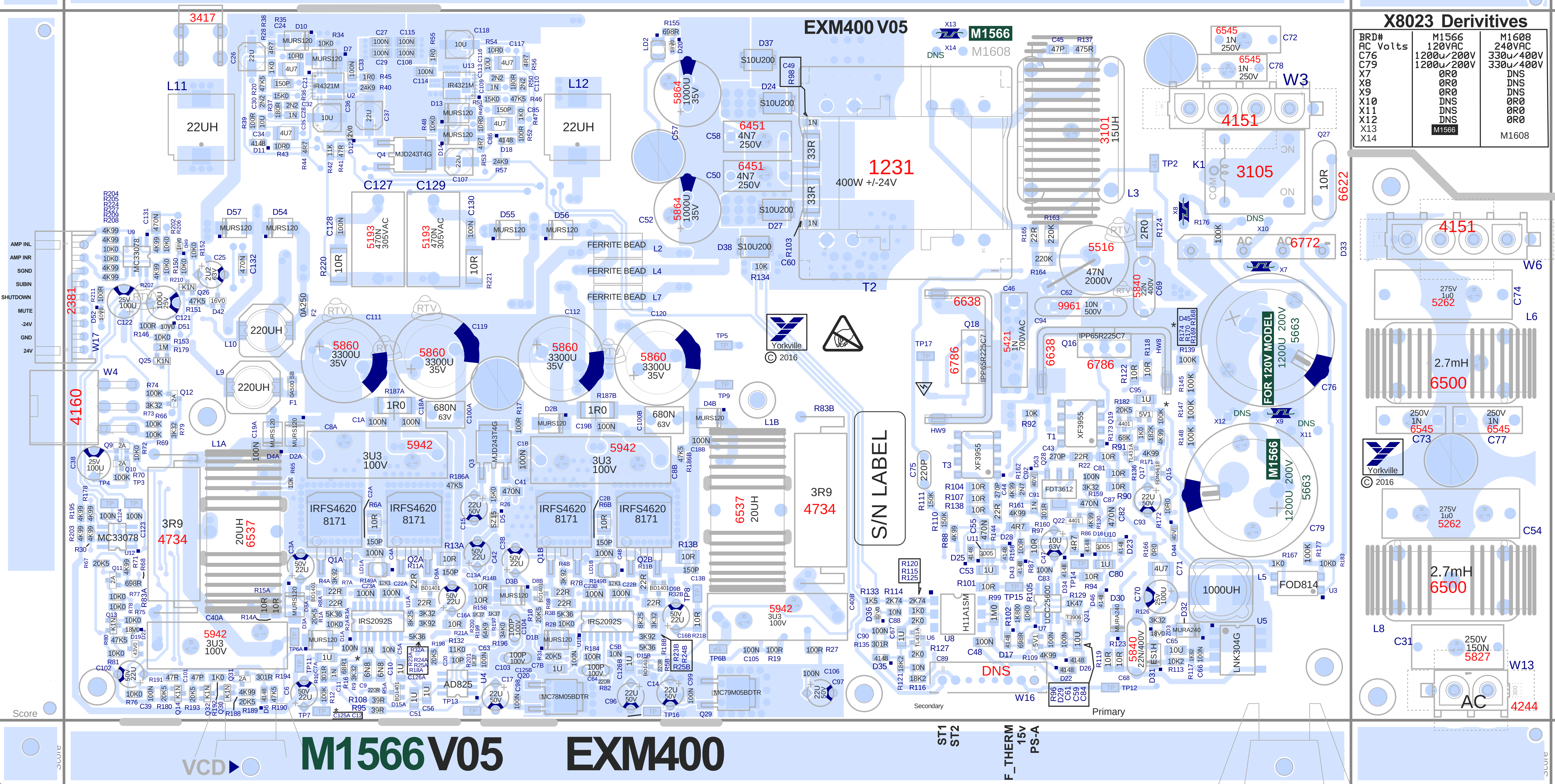
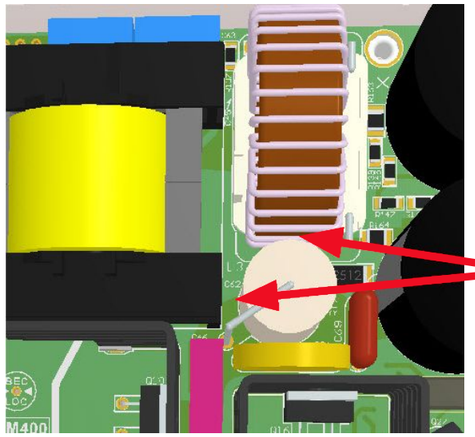
THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section:	Design Information And History			
Product(s):	EXM400			
PCB#: X8023	Rev#: V05	EML Rev#: 01	Sheet 7 Of 7	
Modified: 2021-04-12	File: History.SchDoc		Tmp Rev: VXX	

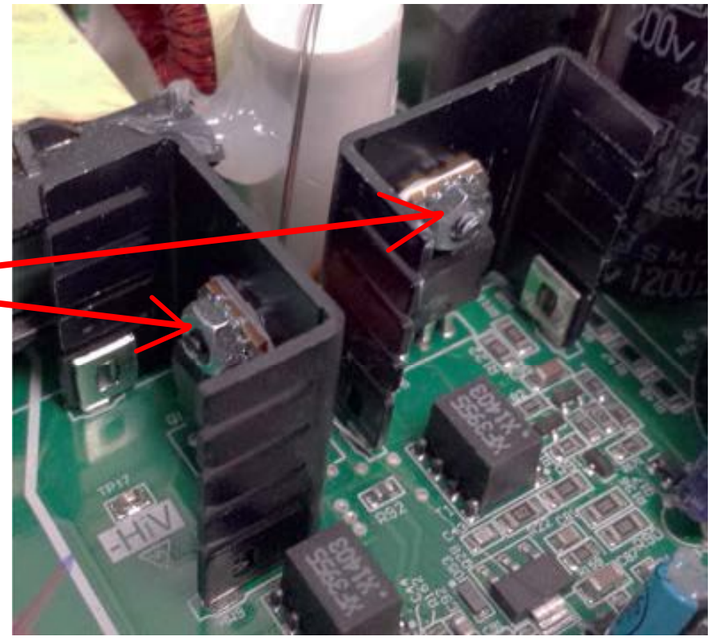

EXM400 V05
M1566
M1608
X8023 Derivitives
BRD# M1566 M1608
AC Volts 120VAC 240VAC
C76 1200u/200V 330u/400V
C79 1200u/200V 330u/400V
X7 0R0 DNS
X8 0R0 DNS
X9 0R0 DNS
X10 DNS 0R0
X11 DNS 0R0
X12 DNS 0R0
X13 M1566 M1608
X14
1231
400W +/-24V
T2
S/N LABEL
Yorkville
© 2016
FOR 120V MODEL
FERRITE BEAD
AMP INL
AMP INR
SGND
SUBIN
SHUTDOWN
MUTE
-24V
GND
24V
Secondary
Primary
DNS
AC
ST1
ST2
F_THERM
15v
PS-A
VCD
Score
M1566 V05
EXM400

SPECIAL PRODUCTION NOTES



1. PCBSA: ADD THERMAL COMPOUND BETWEEN HEATSINK AND Q16/Q18
2. PCBSA: TIE WRAP AND RTV L1A AND L1B.
3. PCBSA: ADD RTV BETWEEN K1 AND Q27.
4. PCBSA: DO NOT BEND AI RADIAL CAPACITORS. RTV ONLY.
5. USE PIZZA CUTTER TO SEPARATE BOARD FROM PANEL.

PLACE NUT ON TRANSISTOR SIDE.



Yorkville	Section: *Assembly Documentation*		
	Product(s): EXM400		
	PCB# X8023	Rev# V05	Sheet 1 Of 7
	Date Modified: 2021-04-12	Filename: Assembly.SchDoc	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	07-APR-2015	V01	.	RELEASED FOR PRODUCTION
2	12-JUN-2015	V02	8772	C104 moved down so D3B is not hit during RAD operation
3	27-JAN-2016	V03	8847	Changed all 100N caps to YS 5979
4	10-MAR-2016	V04	8904	Add PTC protection. Add Zobel coils at sat output.
5	.	.	8899	DNS W11, W12, W15 and W16
6	.	.	8855	Move R303, R304 away from spacer.
7	10-OCT-2018	.	8955	Change R35R, R35L, R61R, R61L from YS#7854(47R 0805) to Ys#7624(100R 0805)
8	13-MAR-2019	.	9305	Reinforce pads of T2 with vias and in other high current areas
9	27-JAN-2021	V05	9581	Revised D class amp circuit for satellites
10	.	.	.	.
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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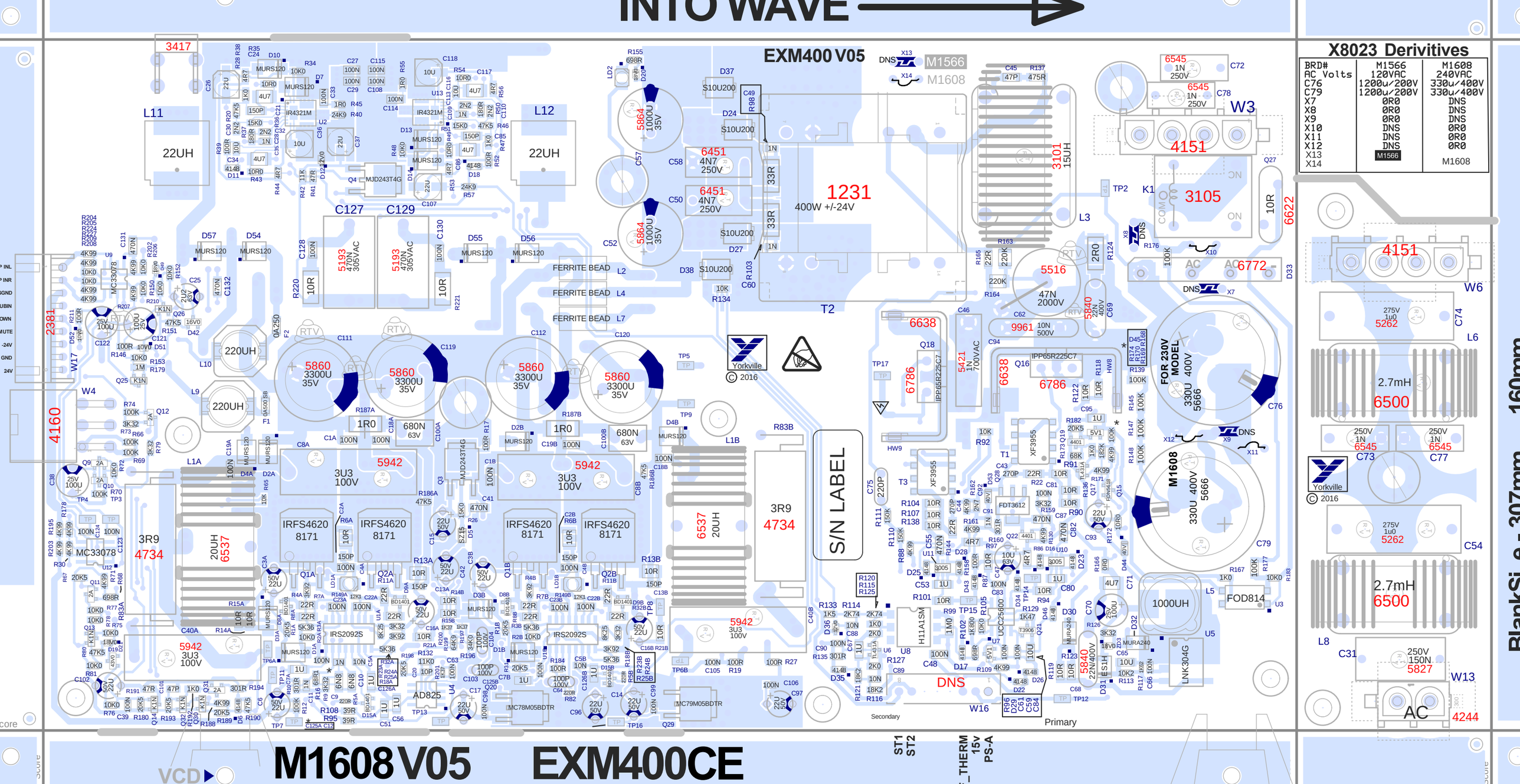
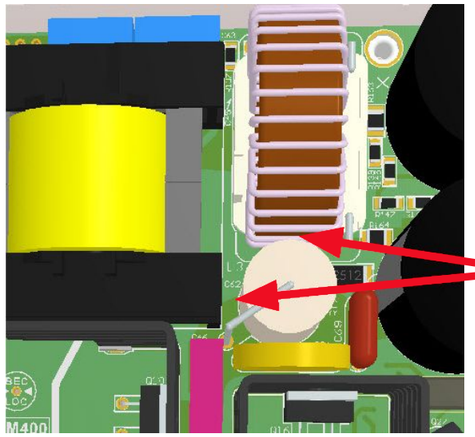
THIS SHEET CONTAINS A CHANGE HISTORY LOG, A LIST OF THE POTS & KNOBS AND A LEADS & PINS REFERENCE SECTION.

Yorkville

Section:	Design Information And History			
Product(s):	EXM400			
PCB#: X8023	Rev#: V05	EML Rev#: 01	Sheet 7 Of 7	
Modified: 2021-04-12	File: History.SchDoc		Tmp Rev: VXX	


INTO WAVE
EXM400 V05
M1566
M1608
1231
400W +/-24V
T2
S/N LABEL
X8023 Derivitives
BRD#
AC Volts
C76
C79
X7
X8
X9
X10
X11
X12
X13
X14
1200u/200V
330u/400V
0R0
DNS
M1566
M1608
240VAC
120VAC
W3
W4
W5
W6
W13
W16
W17
L1A
L1B
L2
L4
L7
L10
L11
L12
L5
L6
L8
L9
22UH
220UH
1000UH
20UH
3R9
4734
6537
IRFS4620
8171
MC33078
IRS2092S
AD825
MC78M05BDTR
MC79M05BDTR
IPP65R225C7
FDT3612
XF3955
H11A1SM
UCC25600
FOD814
LNK304G
FDN5630
MURA240
MURS120
MJD243T4G
FERRITE BEAD
Yorkville
© 2016
FOR 230V MODEL
Secondary
Primary
VCD
M1608 V05
EXM400CE
ST1
ST2
PS-A
160mm
307mm
BlankSi

SPECIAL PRODUCTION NOTES



RTV between Cap and coil and cap and transformer.

1. PCBSA: ADD THERMAL COMPOUND BETWEEN HEATSINK AND Q16/Q18
2. PCBSA: TIE WRAP AND RTV L1A AND L1B.
3. PCBSA: ADD RTV BETWEEN K1 AND Q27.
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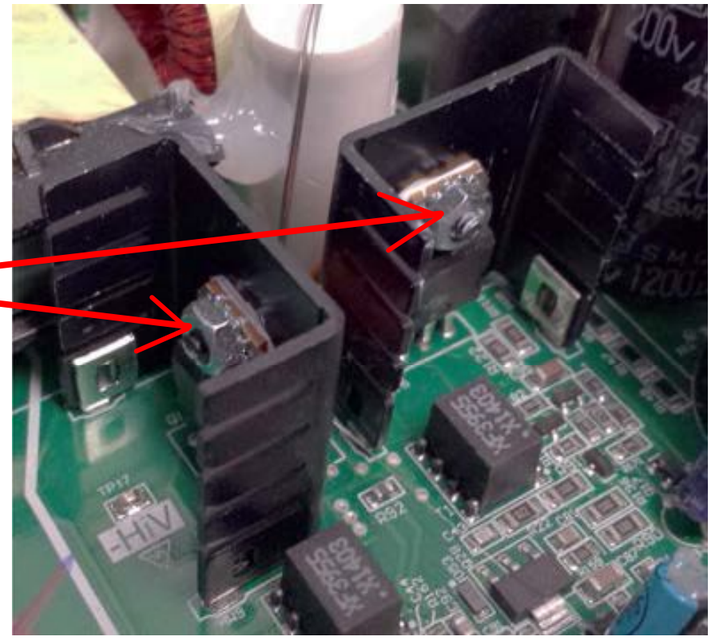
PLACE NUT ON TRANSISTOR SIDE.



Yorkville	*Section:* ***Assembly Documentation***		
	Product(s): **EXM400**		
	PCB# X8023	***Rev#*** V05	***Sheet*** 1 ***Of*** 7
	Date Modified: 2021-04-13	***Filename:*** Assembly.SchDoc	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	07-APR-2015	V01	.	RELEASED FOR PRODUCTION
2	12-JUN-2015	V02	8772	C104 moved down so D3B is not hit during RAD operation
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8	13-MAR-2019	.	9305	Reinforce pads of T2 with vias and in other high current areas
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#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
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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):	EXM400			
PCB#: X8023	Rev#: V05	EML Rev#: 01	Sheet 7 Of 7	
Modified: 2021-04-13	File: History.SchDoc		Tmp Rev: VXX	

TOP LEVEL SHEET

DSP
DSP.SchDoc
SPI_CLK
SPI_MOSI
SPI_MISO
SS_DSP
/RESET_DSP
MCLKI
LRCLKAD
BCLKAD
ADATA1
ADATA2
ADATA3
ADATA4
ADATA5
LRCLKDA
BCLKDA
DDATA1
DDATA2
DDATA3
DDATA4
BT_SD_IN
BT_SD_OUT

Bluetooth
Bluetooth.SchDoc
BT_SD_IN
BT_SD_OUT
BT_Switch
BT_UART_RTS
BT_UART_CTS
BT_UART_TX
BT_UART_RX
BT_GPIO2
BT_GPIO9
BT_EN

3V3
600R
L1
Y1
Vdd
OUT
7894
E/D
CWX823-12.288
GND
50V
C86
220N
1206
DGND
R6
W100
100R
0805
R167
W125
0R0
0805

U_Microcontroller
Microcontroller.SchDoc
SPI_CLK
SPI_MOSI
SPI_MISO
SS_DSP
/RESET_DSP
MCLKI
Shutdown
MuteReq
1MLeft
1MRight
SPK_R_EN
LINK_Left_EN
LINK_Right_EN
BT_EN
BT_GPIO9
BT_GPIO2
BT_UART_RX
BT_UART_TX
BT_UART_CTS
BT_UART_RTS
/RESET_CODEC
ZERO
BT_Switch
Sync1
Sync2
CH_MODE_1
CH_MODE_2
LEVEL_1
REVERB_1
Tone_1
LEVEL_2
REVERB_2
Tone_2
LEVEL_3-4
Bass_3_4
Treble_3_4

CODEC
Codec.SchDoc
MCLKI
LRCLKAD
BCLKAD
ADOUT1
ADOUT2
ADOUT3
ADOUT4
ADOUT5
LRCLKDA
BCLKDA
DAIN1
DAIN2
DAIN3
DAIN4
/RESET_CODEC
ZERO
VIN9
VIN10
9-10Gnd
VIN7
VIN8
7-8Gnd
+5V
VCOMAD1
VCOMAD2
VCOMAD3
VIN1+
VIN1-
VIN2+
VIN2-
VIN3+
VIN3-
VIN4+
VIN4-
VIN5+
VIN5-
VIN6+
VIN6-
VOUT2-
VOUT2+
VOUT1-
VOUT1+
VOUT8+
VOUT8-
VOUT7-
VOUT7+
VOUT6-
VOUT6+
VOUT5-
VOUT5+
VOUT4-
VOUT4+
VOUT3-
VOUT3+
LINE_OUT_GND

W2
SAT_L_OUT
SAT_R_OUT
SGND
SUB_A_OUT
SHUTDOWN
MUTEREQ
W2A
W2B
W2C
W2D
W2E
W2F
W2G
W2H
W2I
To Power Amp Board
-24V
10N
C204
50V
0805
+24V
PSG

A
Mono_CH.SchDoc
CH 1 GTR/MIC
LEVEL
REVERB
Tone
CH_In+
CH_In_IG
CH_In-
CH_Clip
CH_MODE_SW
HI_SENS+
HI_SENS-
VCOMAD
LO_SENS+
LO_SENS-
PSGND

Ch1_InputJacks
Ch1_InputJacks.SchDoc
CH_MODE
CH1_In+
CH1_In_IG
CH1_In-
CH1_Clip
CH1_MODE_SW
IGND
+22V_PH

B
Mono_CH.SchDoc
CH 2 LINE/MIC
Ch2_InputJacks
Ch2_InputJacks.SchDoc
CH2_In+
CH2_In_IG
CH2_In-
CH2_Clip
CH2_MODE_SW

C
CH 3&4 LINE/GTR
CH 3_4 Stereo.SchDoc
Ch3_HI_SENS+
Ch3_HI_SENS-
Ch4_HI_SENS+
Ch4_HI_SENS-
Ch3_LO_SENS+
3-4LoGnd
Ch4_LO_SENS+

Output
Output.SchDoc
Activity
SUB_A+
SUB_A-
SAT_R+
SAT_R-
SAT_L+
SAT_L-
LINE_R_OUT+
LINE_R_OUT-
LINE_L_OUT+
LINE_L_OUT-
LINE_OUT+
LINE_OUT_GND
1MLeft
1MRight
LINK_Right_EN
LINK_Left_EN
SPK_R_EN

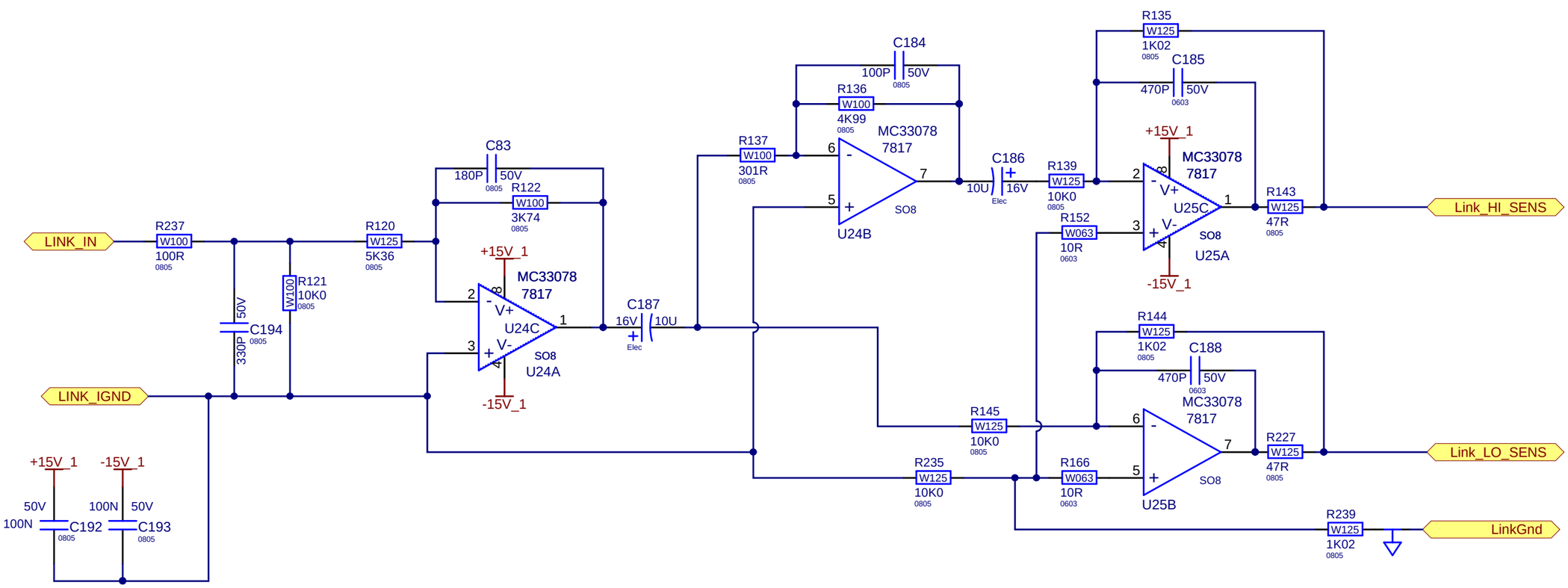
LinkInput
LinkInput.SchDoc
LINK_IN
LINK_IGND
Link_HI_SENS
Link_LO_SENS
LinkGnd

U_LV_PowerSupply
LV_PowerSupply.SchDoc
PSG
+24V
-24V
+5V
+22V_PH
GND_PH
Sync1
Sync2

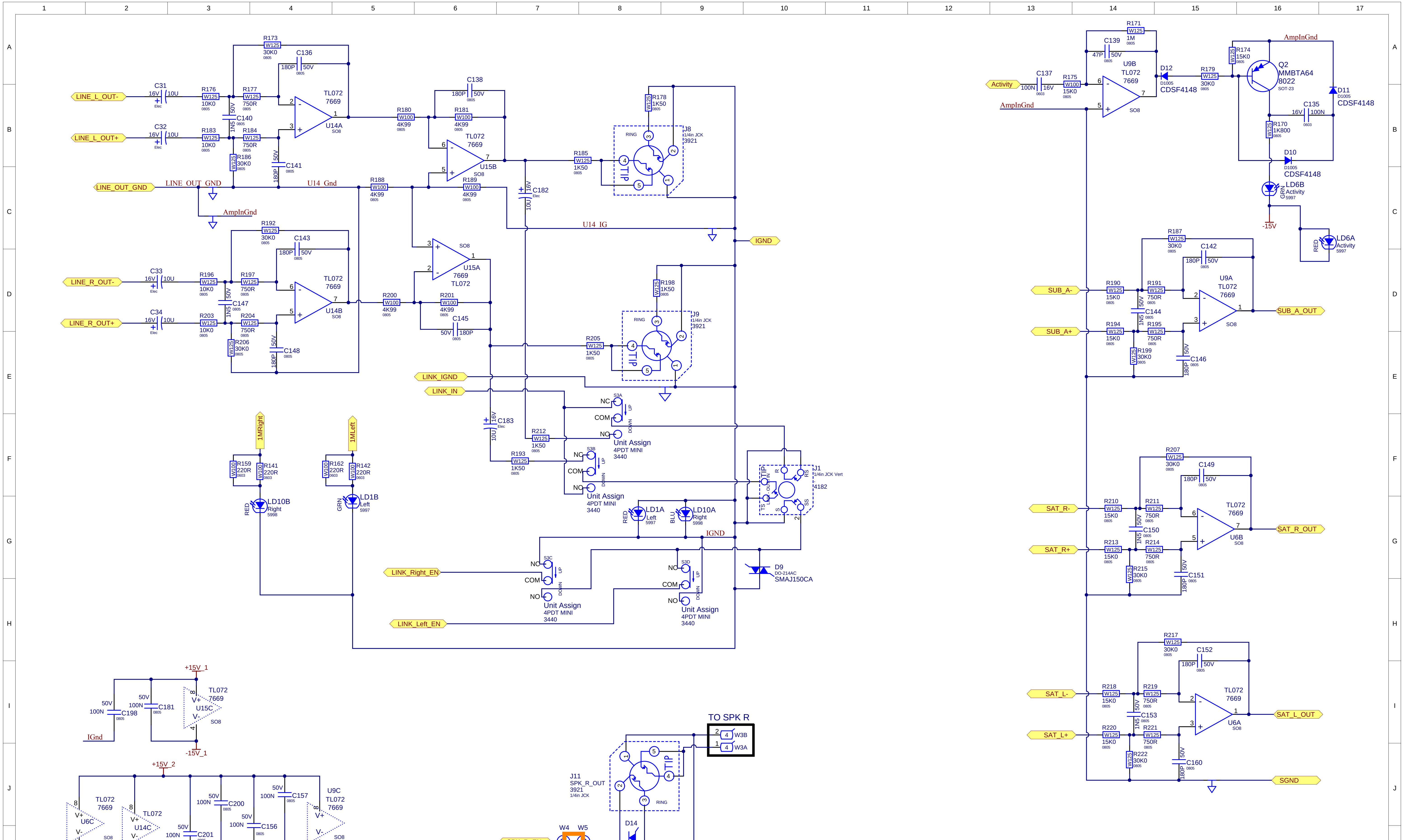
ECAD INCIDENTAL
ECO.SchDoc
ASSEMBLY NOTES
Assembly.SchDoc
DESIGN HISTORY
History.SchDoc

R149
W125
0R0
0805
IGND

Yorkville Sound Ltd. 550 Granite Court Pickering, ON Canada L1W 3Y8 www.yorkville.com	Product(s):	EXM400			
	Description:	Portable PA System			
	PCB#: M1567	Rev#: V04	EML Rev#: 1	Sheet 1 Of *	
	Modified: 2/6/2017	File: Top Sheet.SchDoc		Tmp Date: 04/15/2013	



Section:	Link Input		
Product(s):	EXM400		
PCB#: M1567	Rev#: V04	EML Rev#: 1	Sheet 1 Of *
Modified: 2/6/2017	File: LinkInput.SchDoc		Tmp Rev: TemplateRev



Section:	Outputs		
Product(s):	EXM400		
PCB#: M1567	Rev#: V04	EML Rev#: 1	Sheet 1 Of *
Modified: 2/6/2017	File: Output.SchDoc		Tmp Date: 04/15/2013

I2S

3V3

C134
100N 16V
0603

C195
16V 10U
Elec

BT_SD_IN

BT_SD_OUT

R274
W063
49R9
0603

BT_EN

DGND

DGND

13.5X26mm SMT Module
RN52I/RM
8190

U13

Pin	Left	Right
27	GND	
26	PCM_CLK	
25	PCM_SYNC	
24	PCM_OUT	
23	PCM_IN	
22	VDD	
21	PWREN	
20	PIO6	
19	PIO7	
18	GND	
28	SPI_SS	UART_RX 17 → BT_UART_RX
29	SPI_MISO	UART_TX 16 → R164 W063 49R9 0603 → BT_UART_TX
30	SPI_SCK	UART_CTS 15 → BT_UART_CTS
31	SPI_MOSI	UART_RTS 14 → BT_UART_RTS
32	LED1	USBD+ 13
33	LED0	USBD- 12
34	MIC_BIAS	PIO9 11 → BT_GPIO9
35	MIC_L+	PIO10 10
36	MIC_R+	PIO11 9
37	MIC_L-	PIO13 8
38	MIC_R-	PIO12 7
39	AGND	PIO5 6
40	SPKR_R-	PIO4 5
41	SPKR_L-	AIO0 4
42	SPKR_R+	PIO2 3 → BT_GPIO2
43	SPKR_L+	PIO3 2
44	GND	GND 1
45	GND	
46	GND	
47	GND	
48	GND	
49	GND	
50	GND	

3V3

LD8B
BluTth
5998
RED

LD8A
BluTth
5998
BLU

R169
W125
470R
0805

R37
W125
DNS
0805

BT_Enable

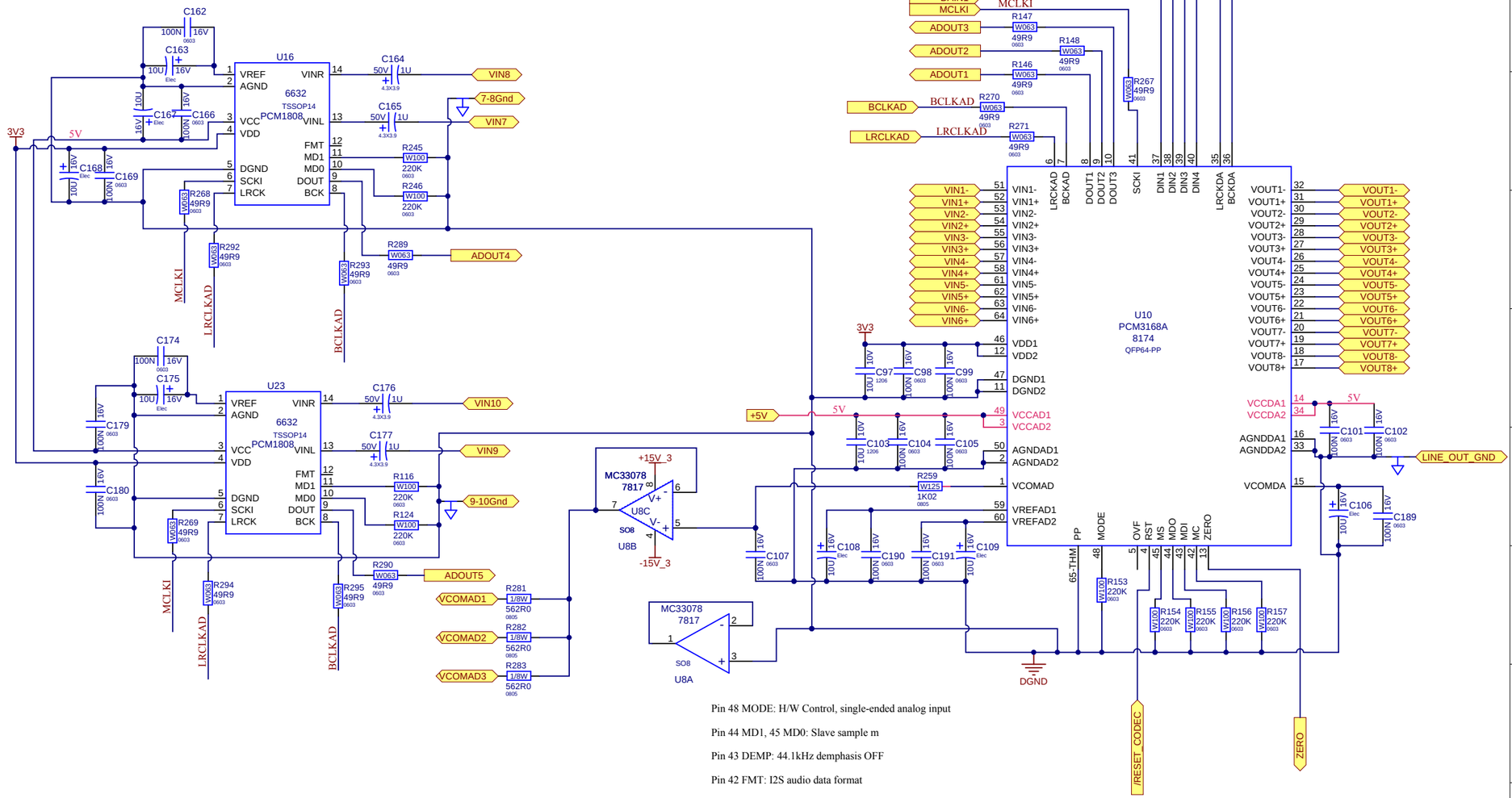
NO COM NC
3522
Alternate
S4B
DOWN UP
DOWN UP
S4A
BT_Enable
NO COM NC

BT_Switch

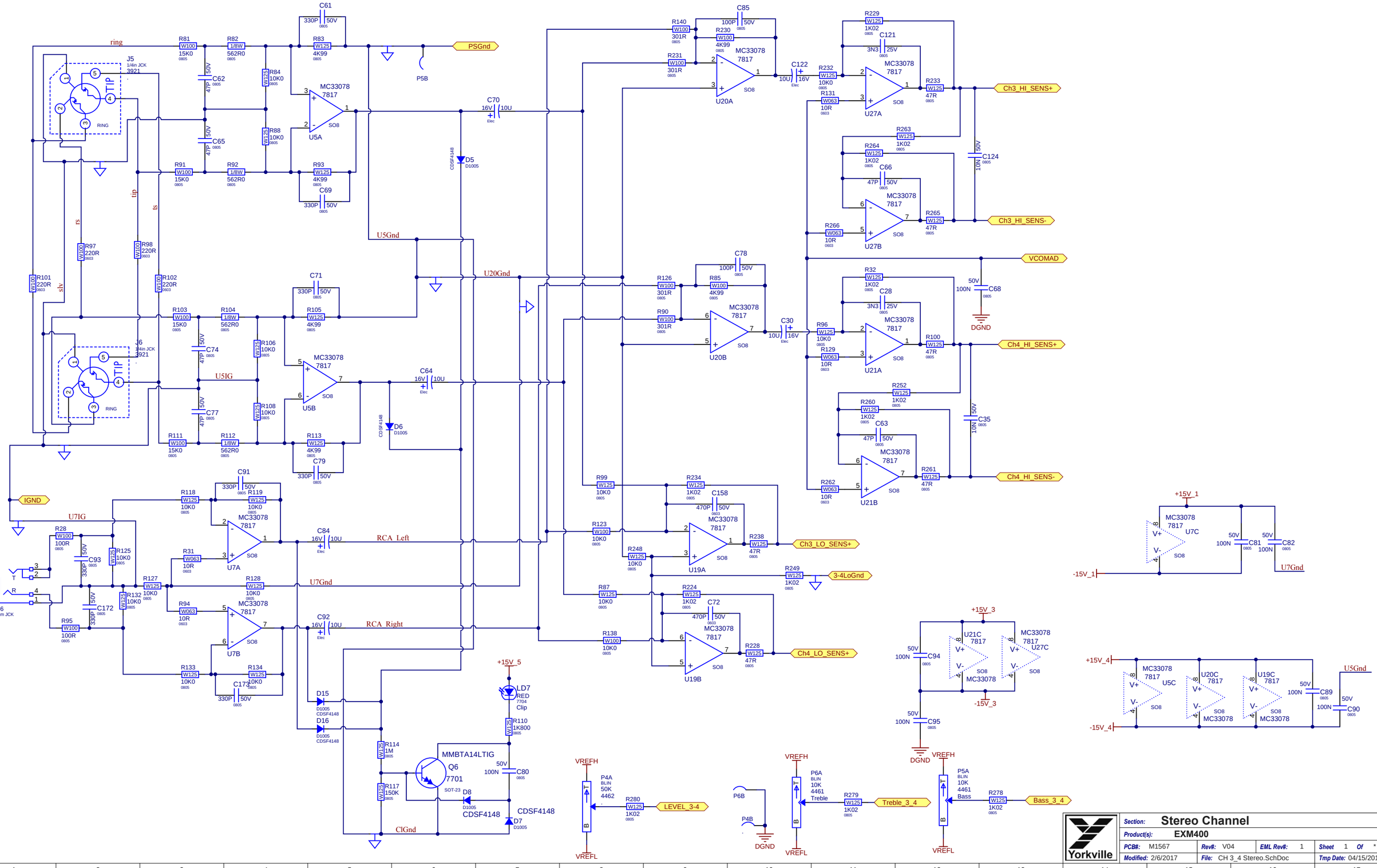
DGND

Section:	Bluetooth
Product(s):	EXM400
PCB#: M1567	Rev#: V04
EML Rev#: 1	Sheet 1 Of *
Modified: 2/6/2017	File: Bluetooth.SchDoc
Tmp Rev: TemplateRev	

Yorkville


U16
PCM1808
6632
TSSOP14
VREF
AGND
VCC
VDD
DGND
SCKI
LRCK
VINR
VINL
FMT
MD1
MD0
DOUT
BCK
U23
PCM1808
6632
TSSOP14
U10
PCM3168A
8174
QFP64-PP
MC33078
7817
U8A
U8B
U8C
SO8
3V3
5V
+5V
+15V_3
-15V_3
DGND
MCLKI
LRCLKAD
BCLKAD
BCLKDA
LRCLKDA
DAIN4
DAIN3
DAIN2
DAIN1
MCLKI
ADOUT1
ADOUT2
ADOUT3
ADOUT4
ADOUT5
VIN7
VIN8
VIN9
VIN10
7-8Gnd
9-10Gnd
LINE_OUT_GND
/RESET_CODEC
ZERO
MODE
65-THM
PP
OVF
RST
MS
MDO
MDI
MC
ZERO
Pin 48 MODE: H/W Control, single-ended analog input
Pin 44 MD1, 45 MD0: Slave sample m
Pin 43 DEMP: 44.1kHz demphasis OFF
Pin 42 FMT: I2S audio data format
Yorkville
Section: Codec
Product(s): EXM400
PCB#: M1567
Rev#: V04
EML Rev#: 1
Sheet 1 Of *
Modified: 2/6/2017
File: Codec.SchDoc
Tmp Date: 04/15/2013

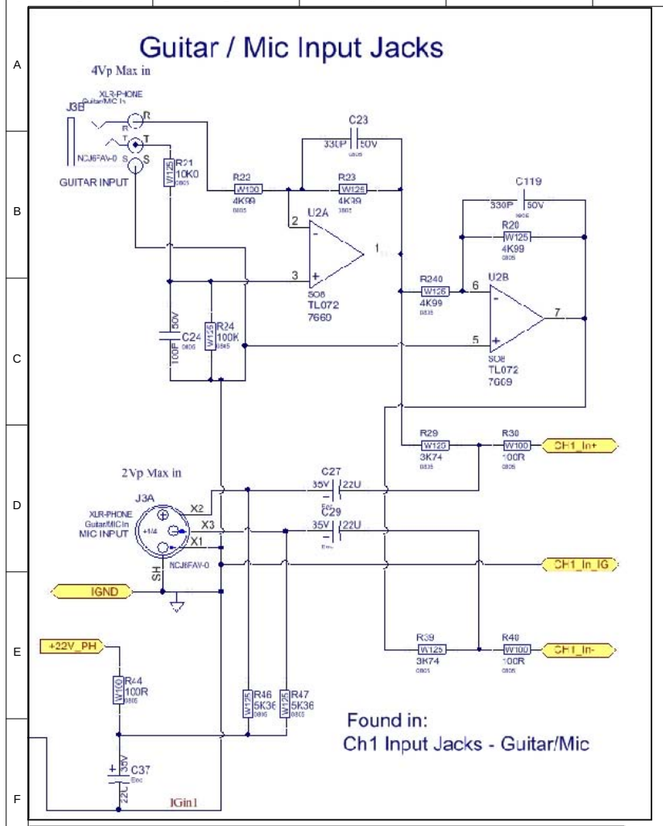
*NOTE: Mono operation is ensured on either jack until a second cable is connected

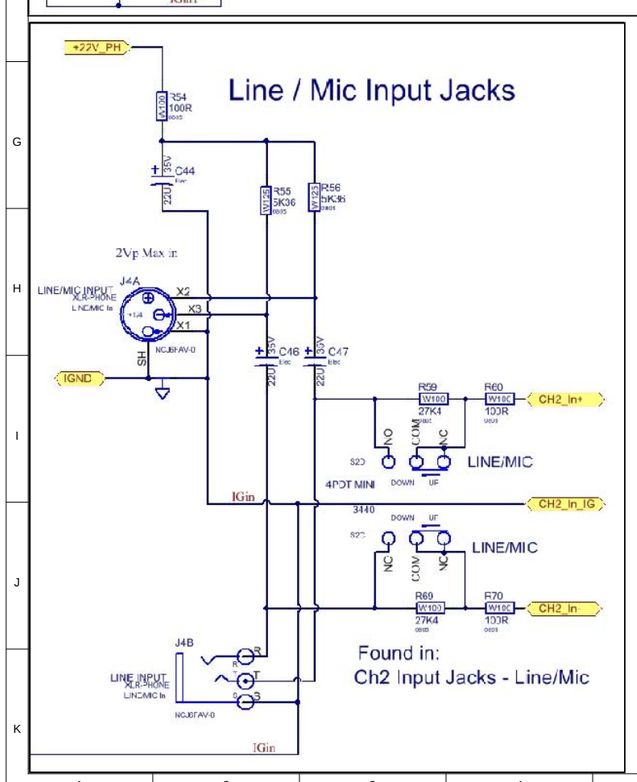


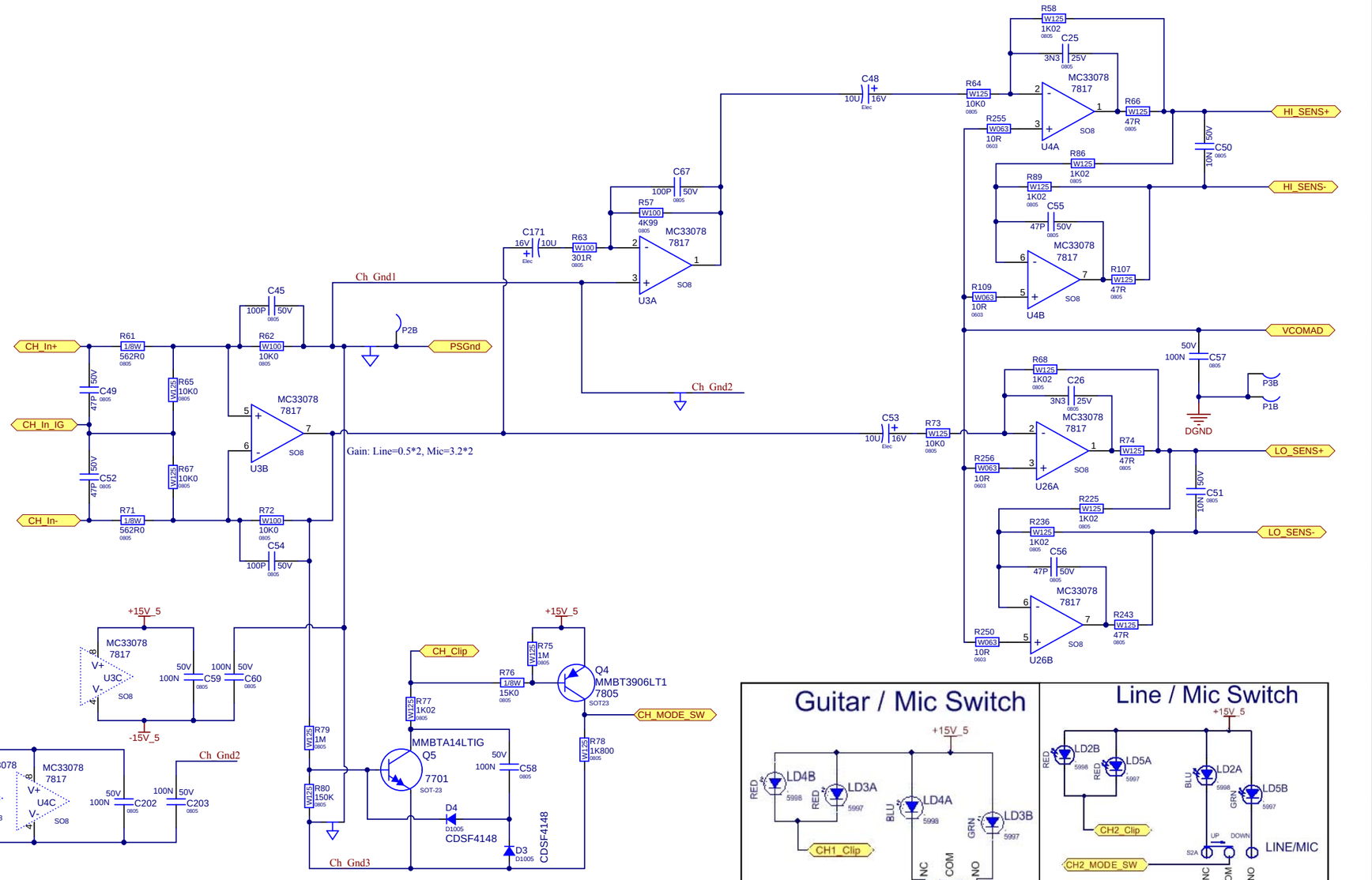
Section:	**Stereo Channel**			
Product(s):	**EXM400**			
PCB#: M1567	**Rev#:** V04	**EML Rev#:** 1	**Sheet** 1 **Of** *	
Modified: 2/6/2017	**File:** CH 3_4 Stereo.SchDoc		**Tmp Date:** 04/15/2013	

Yorkville

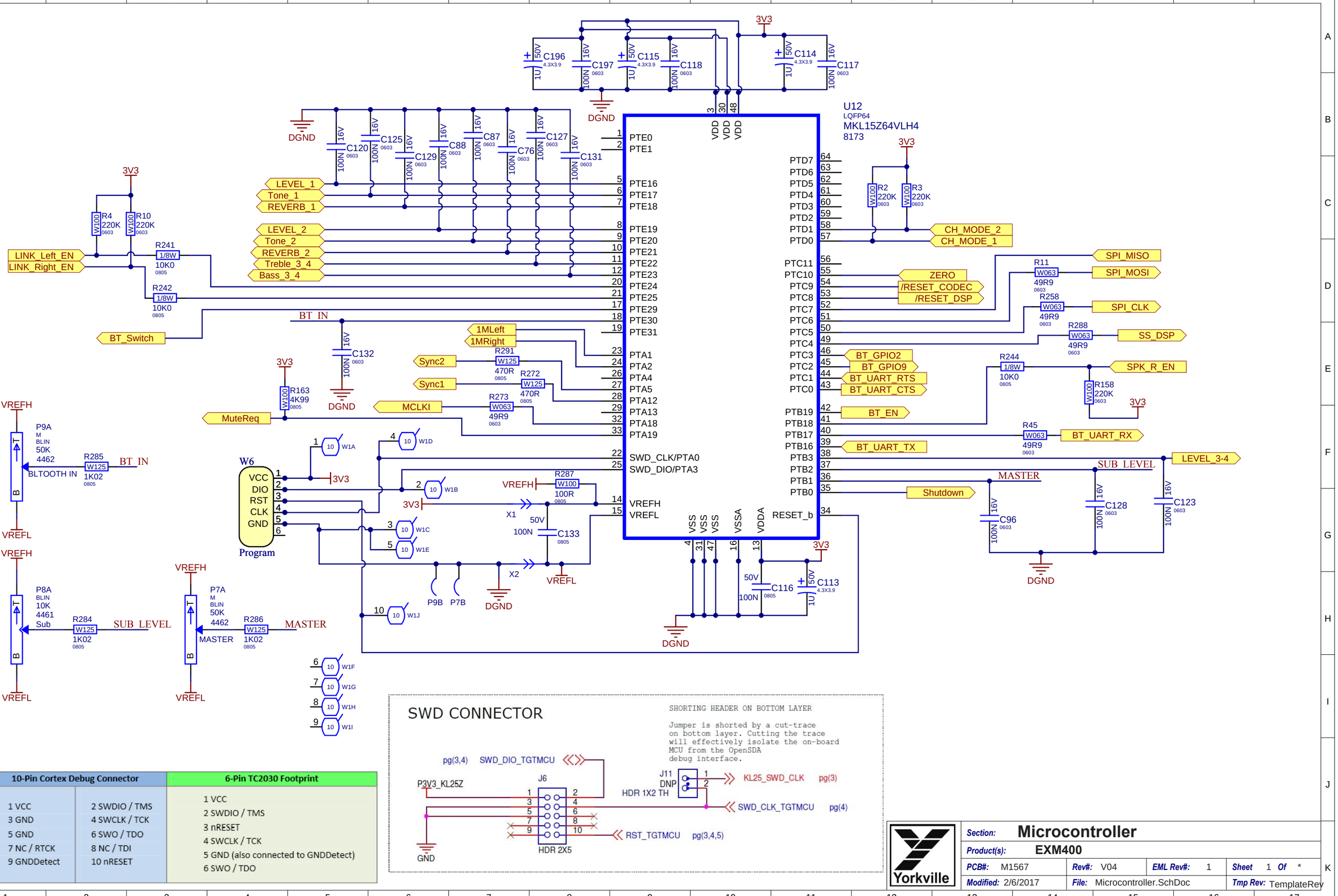
Guitar / Mic Input Jacks







Section:	**Mono Channel**			
Product(s):	**EXM400**			
PCB#: M1567	Rev#: V04	EML Rev#: 1	Sheet 1 Of *	
Modified: 2/6/2017	File: Mono_Ch.SchDoc		Tmp Date: 04/15/2013	



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

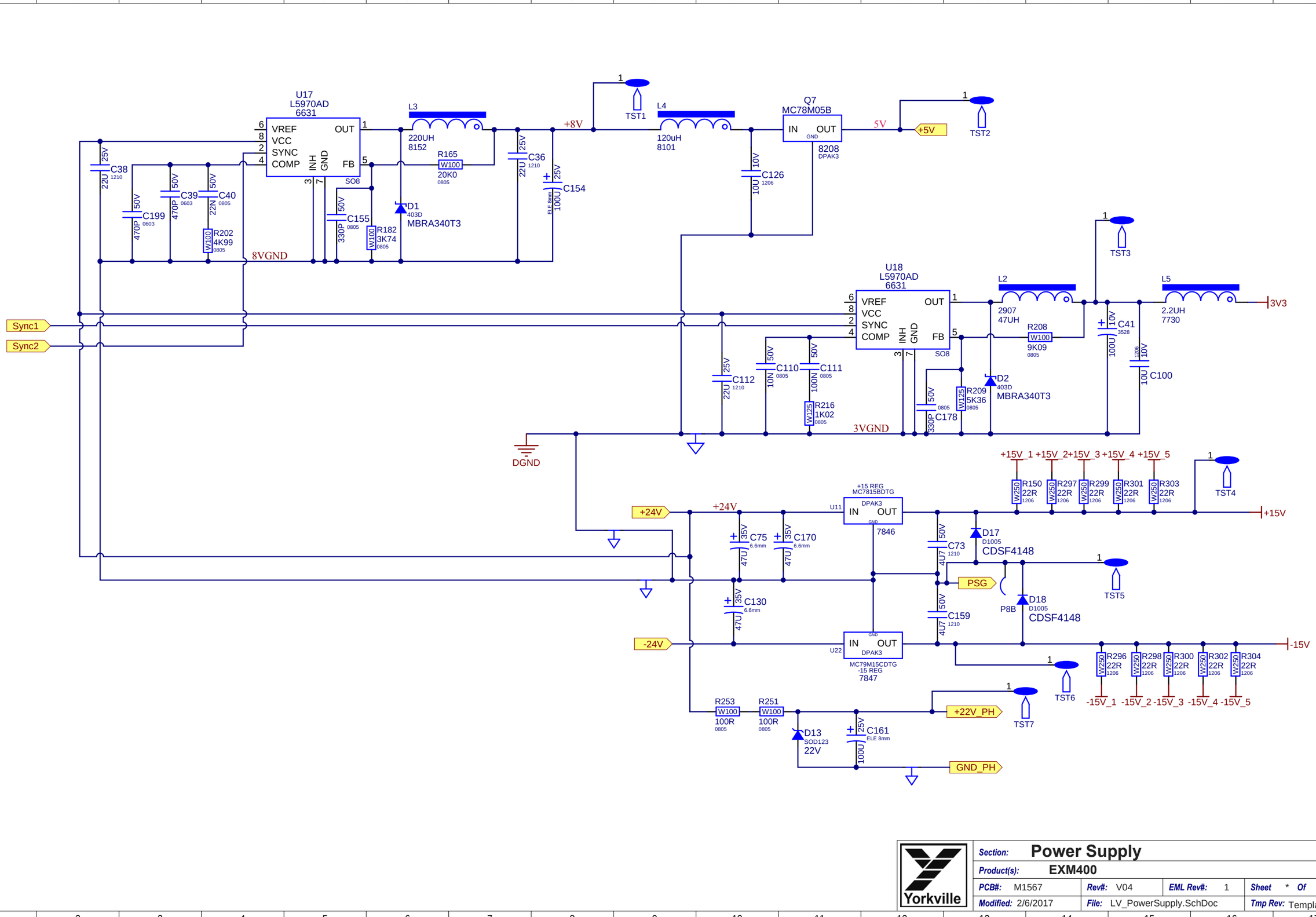
SWD CONNECTOR

SHORTING HEADER ON BOTTOM LAYER

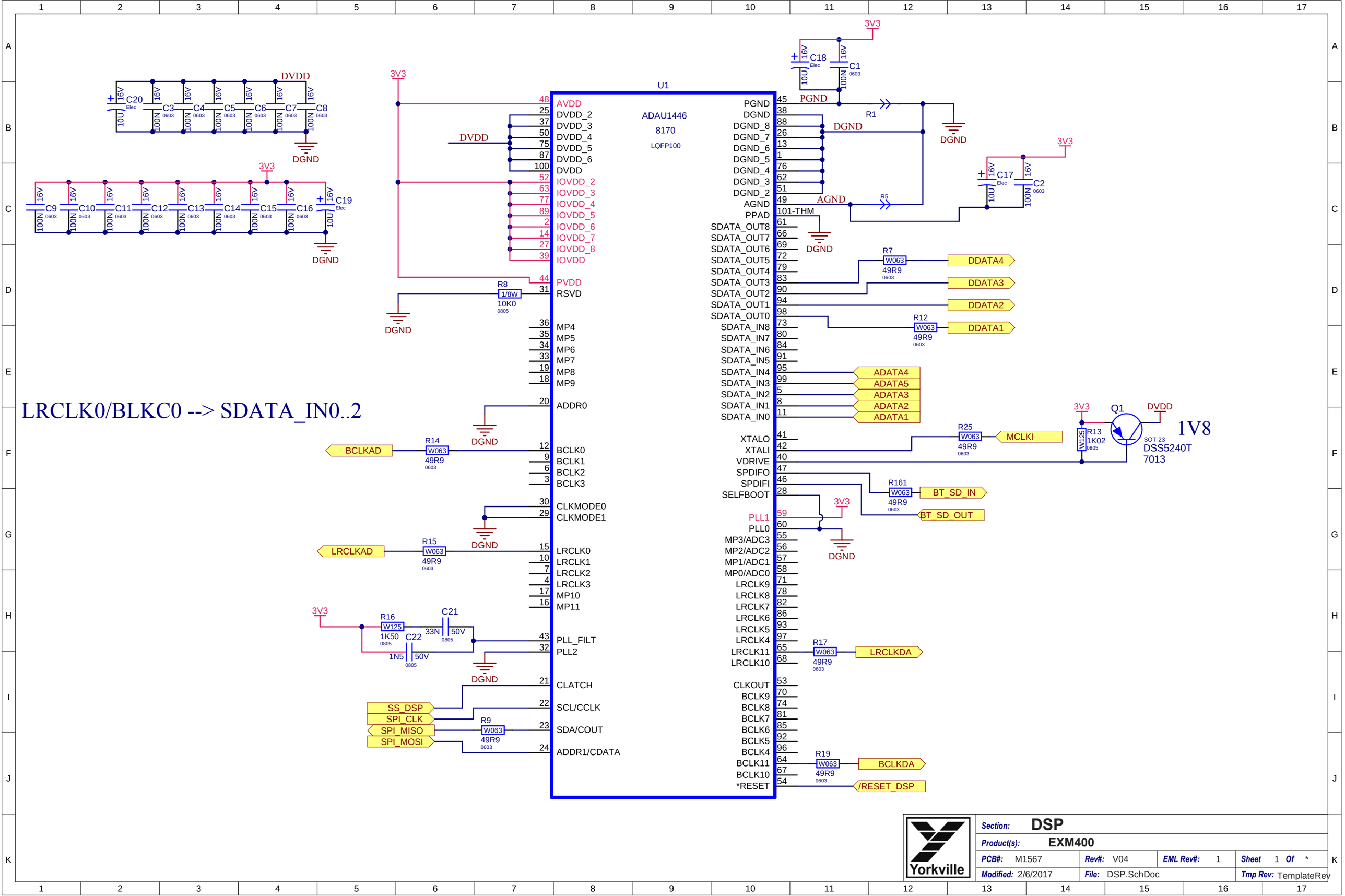
Jumper is shorted by a cut-trace on bottom layer. Cutting the trace will effectively isolate the on-board MCU from the OpenSDA debug interface.

Yorkville

Section: Microcontroller			
Product(s): EXM400			
PCB#: M1567	**Rev#:** V04	**EML Rev#:** 1	**Sheet** 1 **Of** *
Modified: 2/6/2017	**File:** Microcontroller.SchDoc		**Tmp Rev:** TemplateRev



Section: Power Supply			
Product(s): EXM400			
PCB#: M1567	**Rev#:** V04	**EML Rev#:** 1	**Sheet** * **Of** *
Modified: 2/6/2017	**File:** LV_PowerSupply.SchDoc		**Tmp Rev:** TemplateRev



Section: DSP			
Product(s): EXM400			
PCB#: M1567	Rev#: V04	EML Rev#: 1	Sheet 1 Of *
Modified: 2/6/2017	File: DSP.SchDoc		Tmp Rev: TemplateRev

Guitar / Mic Input Jacks

4Vp Max in

XLR-PHONE
Guitar/MIC In
J3B
R
T
S
NCJ6FAV-0
GUITAR INPUT

R21 10K0 0805 (W125)

R22 4K99 0805 (W100)

C23 330P 50V 0805

R23 4K99 0805 (W125)

U2A
SO8
TL072
7669

C24 100P 50V 0805
R24 100K 0805 (W125)

C119 330P 50V 0805

R20 4K99 0805 (W125)

R240 4K99 0805 (W125)

U2B
SO8
TL072
7669

R29 3K74 0805 (W125)

R30 100R 0805 (W100)

CH1_In+

2Vp Max in

J3A
XLR-PHONE
Guitar/MIC In
MIC INPUT
+1/4
X1
X2
X3
SH
NCJ6FAV-0

C27 35V 22U Elec

C29 35V 22U Elec

CH1_In_IGND

IGND

R39 3K74 0805 (W125)

R40 100R 0805 (W100)

CH1_In-

+22V_PH

R44 100R 0805 (W100)

R46 5K36 0805 (W125)

R47 5K36 0805 (W125)

C37 35V 22U Elec

IGin1

IGin1

Found in:
Ch1 Input Jacks - Guitar/Mic

Guitar / Mic Switch

+15V_5

LD4B 5998 RED
LD3A 5997 RED
LD4A 5998 BLU
LD3B 5997 GRN

CH1_Clip

NC COM NO
Alternate
S1B
3522
UP DOWN

CH1_MODE_SW

GTR/MIC

CH_MODE
UP DOWN
S1A
NC COM NO
GTR/MIC

Found in:
Ch1 Input Jacks - Guitar/Mic

+15V_5

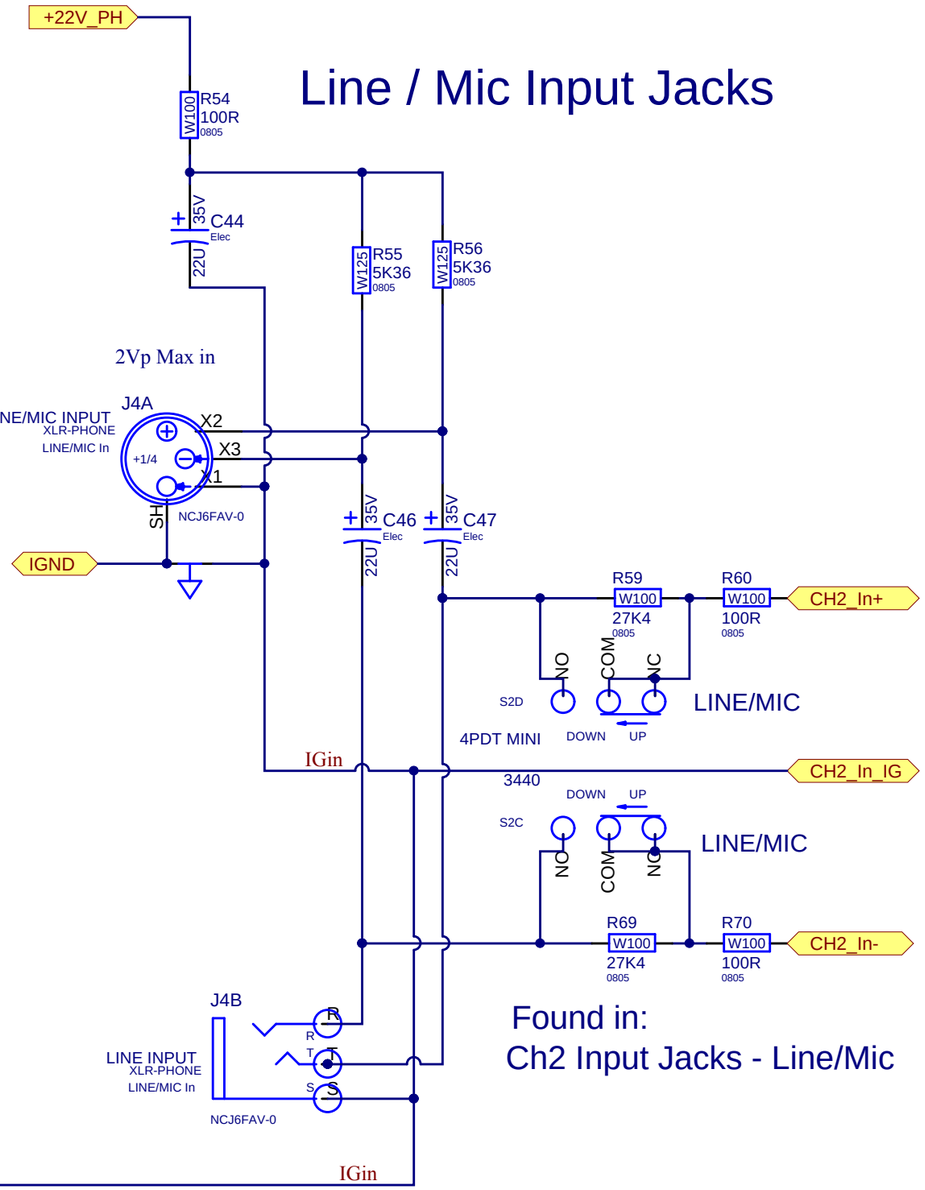
U2C
SO8
TL072
7669
V+
V-

C42 100N 50V 0805
C43 100N 50V 0805

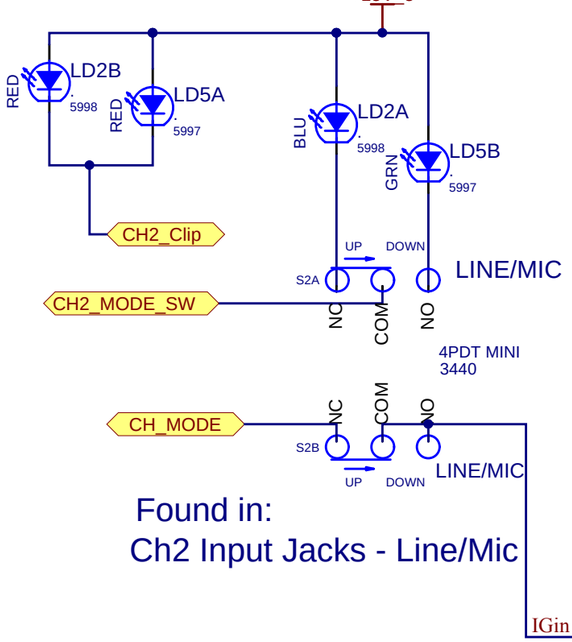
-15V_5

Yorkville	Section: Ch1 Input Jacks - Guitar/Mic		
	Product(s): EXM400		
PCB#: M1567	Rev#: V04	EML Rev#: 1	Sheet * Of *
Modified: 2/6/2017	File: Ch1_InputJacks.SchDoc		Tmp Rev: TemplateRev

Line / Mic Input Jacks



Line / Mic Switch



Section:	**Ch2 Input Jacks - Line/Mic**			
Product(s):	**EXM400**			
PCB#: M1567	Rev#: V04	EML Rev#: 1	Sheet *	Of *
Modified: 2/6/2017	File: Ch2_InputJacks.SchDoc		Tmp Rev: TemplateRev	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	27-FEB-15	V01		RELEASED FOR PRODUCTION
2	.		8734	D17 and D18 added to U1 and U12 regulators.
3	06-JUL-15	.	8801	R37 DO NOT STUFF
4	26-JAN-2016	V02	8865	ADD FUSE 5071 TO -24V NET AND 5072 TO +24V NET
5	03-MAR-16	V03	8855	Move R303, R304 away from the spacer
6	.	.	8904	Replace J11 with#3921 and update footprint on all
7	.	.	.	Update #4090 jacks footprint
8	.	.	.	Tack on C204 #5204 10N 100V pin6 to pin8 on W2
9	01-JAN-2017	V04	8904	Implemented PC8904 on pcb. C204 will now be smt YS# 7737
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POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P1A	LEVEL	4462	P32	8653
P1B	LEVEL	4462	P32	8653
P2A	REVERB	4462	P32	8653
P2B	REVERB	4462	P32	8653
P3A	Tone	4461	P32	8653
P3B	Tone	4461	P32	8653
P4	LEVEL	4462	P32	8653
P5	Bass	4461	P32	8653
P6	Treble	4461	P32	8653
P7	MASTER	4462	P32	8653
P8	Sub	4461	P32	8653
P9	BLTOOTH IN	4462	P32	8653
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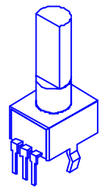

"STYLE_P32"

ECZ2

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
S1	GTR/MIC	3522	.	9071
S2	LINE/MIC	3440	.	9072
S3	L/R_ASSIGN	3440	.	9073
S4	BT_ENABLE	3522	.	8637
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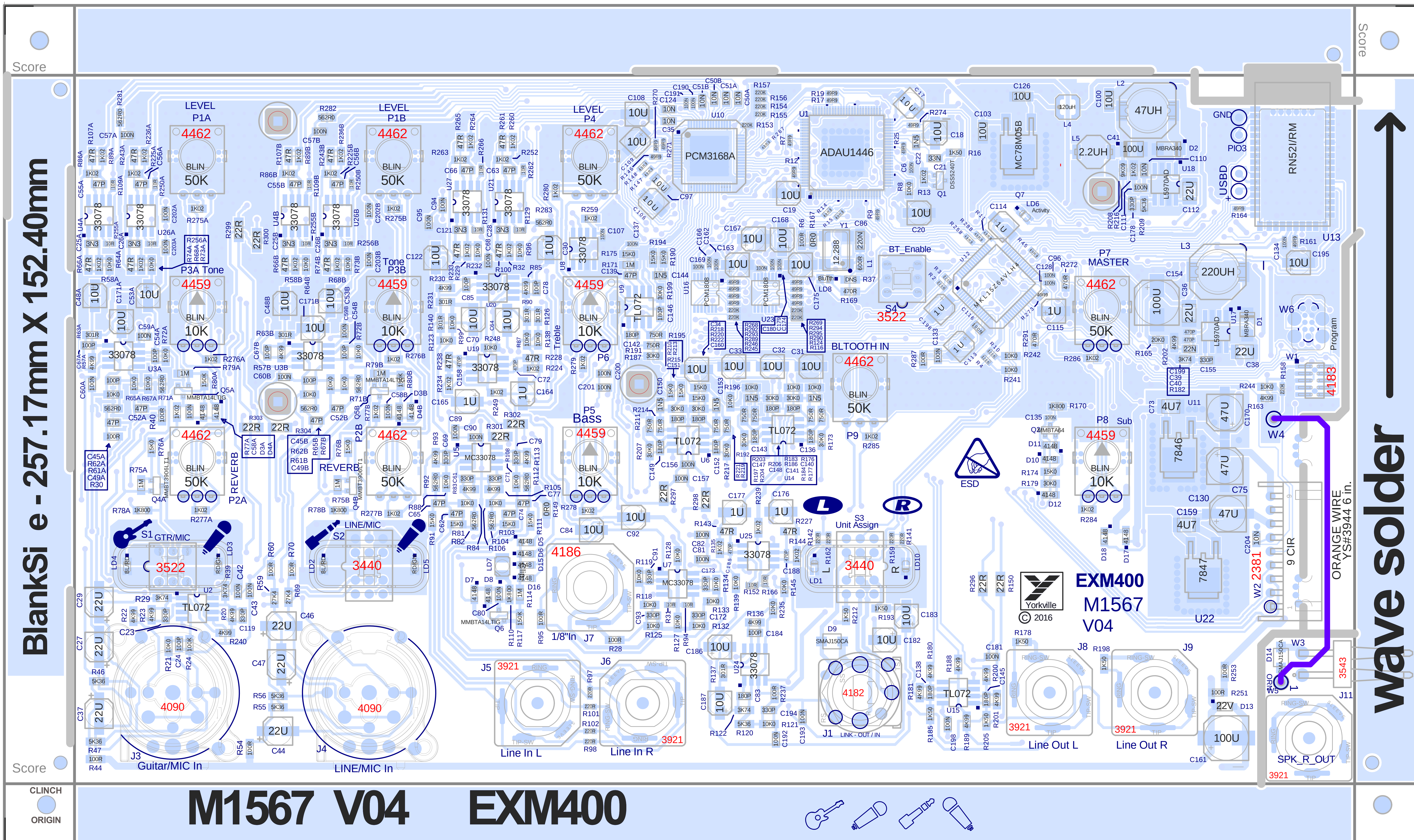
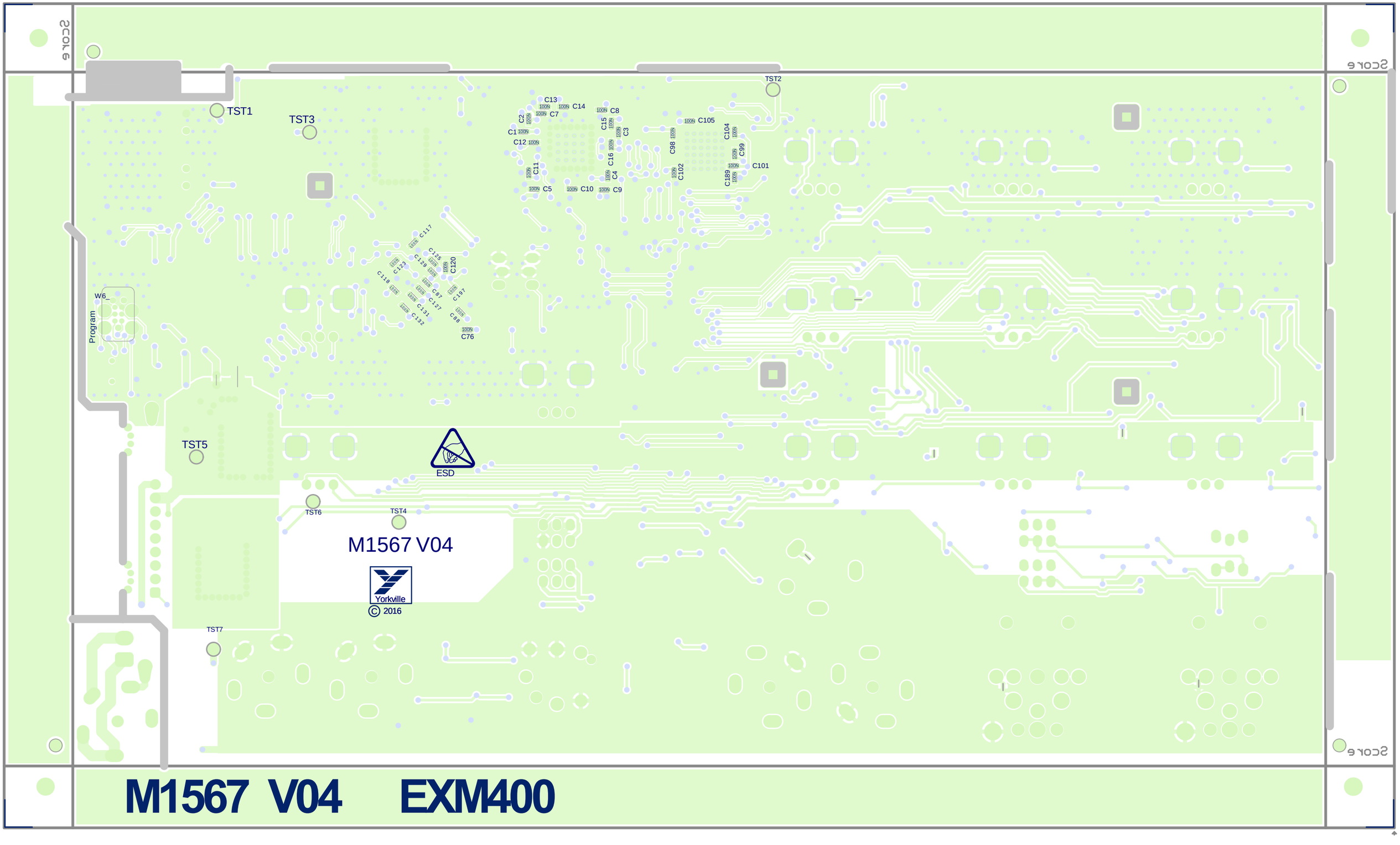
LEADS AND PINS REFERENCE

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): EXM400			
PCB#: M1567	Rev#: V04	EML Rev#: 1	Sheet 1 Of *
Modified: 2/6/2017	File: History.SchDoc		Tmp Date: 04/15/2013


BlankSi e - 257.17mm X 152.40mm
wave solder
M1567 V04 EXM400
EXM400
M1567
V04
Yorkville
© 2016
LEVEL P1A
LEVEL P1B
LEVEL P4
P3A Tone
Tone P3B
Treble
P5 Bass
P6
P7 MASTER
P8 Sub
REVERB P2A
REVERB P2B
BLTOOTH IN
P9
BT_Enable
S4
S1 GTR/MIC
S2 LINE/MIC
S3 Unit Assign
J3 Guitar/MIC In
J4 LINE/MIC In
J5 Line In L
J6 Line In R
J7 1/8"In
J8 Line Out L
J9 Line Out R
J11 SPK_R_OUT
J1 LINK - OUT / IN
PCM3168A
ADAU1446
MC78M05B
RN52I/RM
USBD
PIO3
GND
Program
ESD
ORANGE WIRE YS#3944 6 in.
9 CIR
Score
CLINCH ORIGIN


TST1
TST3
TST2
C13
C14
C8
C7
C2
C15
C3
C1
C12
C105
C104
C98
C99
C16
C4
C11
C102
C101
C189
C5
C10
C9
C117
C125
C123
C129
C120
C118
C87
C127
C131
C132
C88
C76
W6_
Program
TST5
ESD
TST6
TST4
M1567 V04
Yorkville
© 2016
TST7
M1567 V04 EXM400

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

M1567 PRODUCTION NOTES

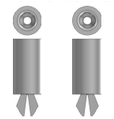
1_Insert Orange wire to W4 and W5.

2_Use wave soldering shield for Bottom SMT parts.

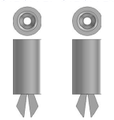
PCB HARDWARE

STANDOFFS

STDOFF1 STDOFF13



STDOFF17 STDOFF14



MISCELLANEOUS

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

Yorkville	*Section:* **Assembly Documentation**			
	Product(s): **EXM400**			
	PCB#: M1567	*Rev#:* V04	*EML Rev#:* 1	*Sheet* 1 *Of* *
	Modified: 12/2/2019	*File:* Assembly.SchDoc		*Tmp Date:* 04/15/2013

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	27-FEB-15	V01		RELEASED FOR PRODUCTION
2	.		8734	D17 and D18 added to U1 and U12 regulators.
3	06-JUL-15	.	8801	R37 DO NOT STUFF
4	26-JAN-2016	V02	8865	ADD FUSE 5071 TO -24V NET AND 5072 TO +24V NET
5	03-MAR-16	V03	8855	Move R303, R304 away from the spacer
6	.	.	8904	Replace J11 with#3921 and update footprint on all
7	.	.	.	Update #4090 jacks footprint
8	.	.	.	Tack on C204 #5204 10N 100V pin6 to pin8 on W2
9	01-JAN-2017	V04	8904	Implemented PC8904 on pcb. C204 will now be smt YS# 7737
10	02-DEC-2019	.	9493	Replaced obsolete part #4461 with #4459
11	.	.	.	.
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POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P1A	LEVEL	4462	P32	8653
P1B	LEVEL	4462	P32	8653
P2A	REVERB	4462	P32	8653
P2B	REVERB	4462	P32	8653
P3A	Tone	4461	P32	8653
P3B	Tone	4461	P32	8653
P4	LEVEL	4462	P32	8653
P5	Bass	4461	P32	8653
P6	Treble	4461	P32	8653
P7	MASTER	4462	P32	8653
P8	Sub	4461	P32	8653
P9	BLTOOTH IN	4462	P32	8653
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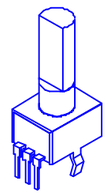

"STYLE_P32"

ECZ2

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
S1	GTR/MIC	3522	.	9071
S2	LINE/MIC	3440	.	9072
S3	L/R_ASSIGN	3440	.	9073
S4	BT_ENABLE	3522	.	8637
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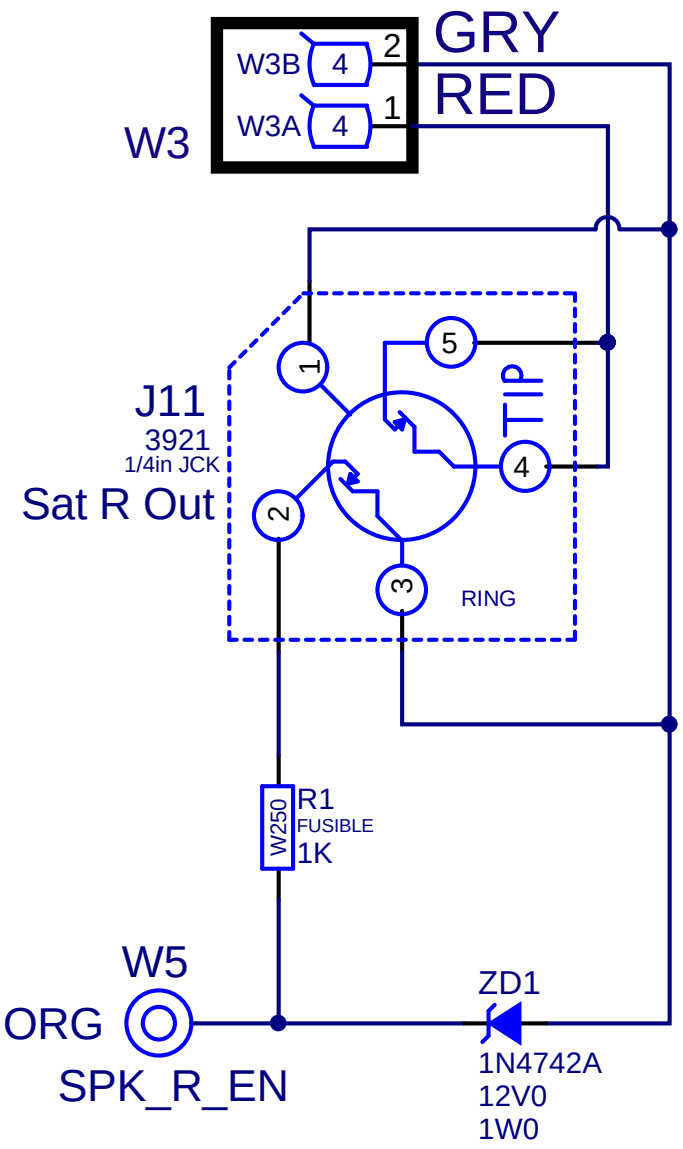
LEADS AND PINS REFERENCE

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):	EXM400			
PCB#: M1567	Rev#: V04	EML Rev#: 1	Sheet 1 Of *	
Modified: 12/2/2019	File: History.SchDoc		Tmp Date: 04/15/2013	

TO SPK R



Yorkville Sound Ltd. 550 Granite Court Pickering, ON Canada L1W 3Y8 www.yorkville.com	**Product(s):** EXM400			
	Description: Speaker R Out			
	PCB#: M1568	**Rev#:** V01	**EML Rev#:** 01	**Sheet** 1 **Of** *
	Modified: 2/23/2016	**File:** M1568.SchDoc		**Tmp Rev:** V032

H I J K

13 14 15 16 17

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	23-FEB-2016	V0	.	First Run
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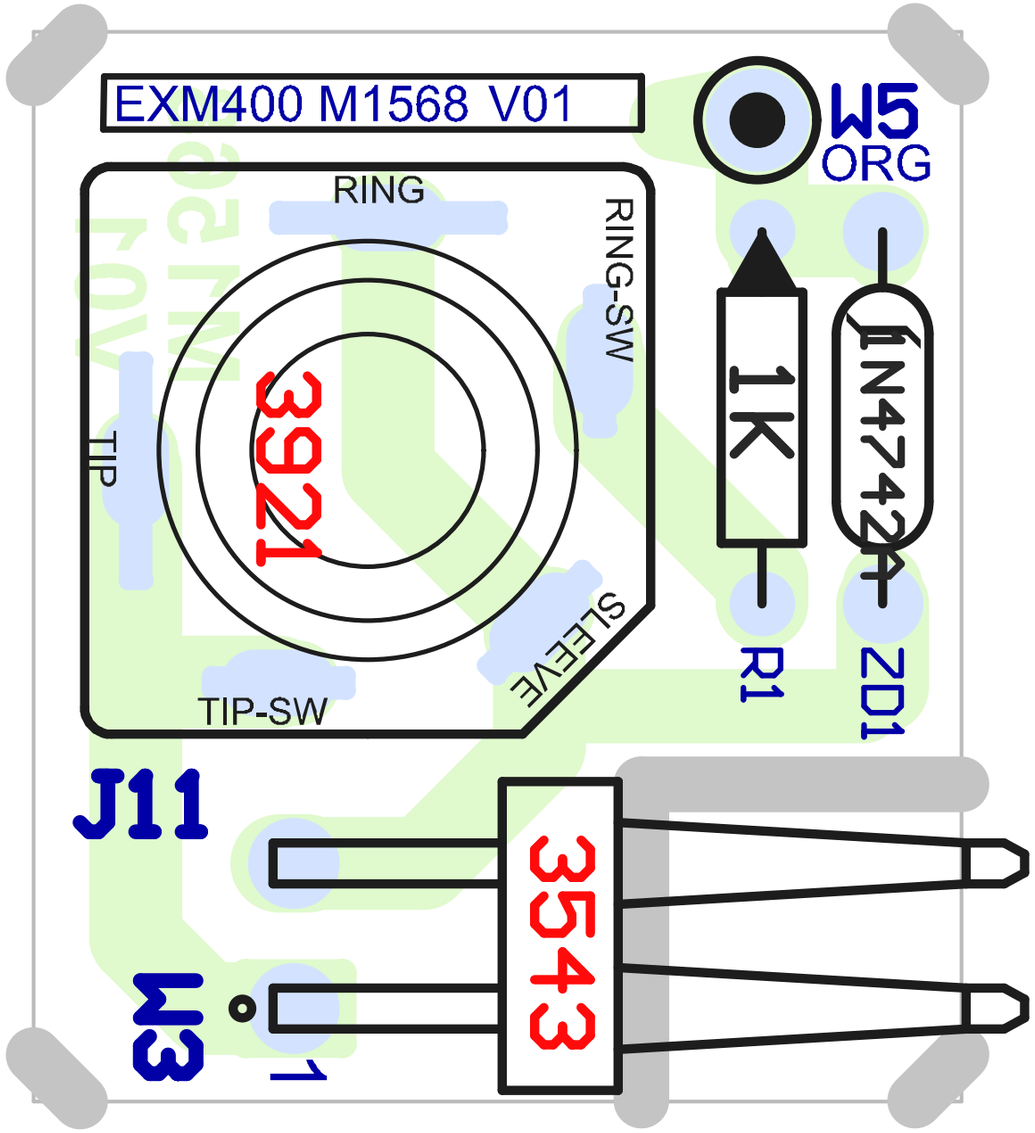
POTENTIOMETERS AND KNOBS

PINOUT DIAGRAMS

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

Yorkville

Section: Design Information And History			
Product(s): EXM400			
PCB#: M1568	Rev#: V01	EML Rev#: 01	Sheet 1 Of *
Modified: 2/23/2016	File: History.SchDoc		Tmp Rev: V032



PANEL INFO

BlankSize - 11000x6750
# of boards per panel: 50
Step & Repeat: X10@1.000Y5@1.150

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

1. Assembly Notes

PCB HARDWARE

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

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

Yorkville

Section: **Assembly Documentation**			
Product(s): **EXM400**			
PCB#: M1568	*Rev#:* V01	*EML Rev#:* 01	*Sheet* 1 *Of* *
Modified: 2/23/2016	*File:* Assembly.SchDoc		*Tmp Rev:* V032

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	23-FEB-2016	V0	.	First Run
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POTENTIOMETERS AND KNOBS

PINOUT DIAGRAMS

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

Yorkville

Section: Design Information And History			
Product(s): EXM400			
PCB#: M1568	Rev#: V01	EML Rev#: 01	Sheet 1 Of *
Modified: 2/23/2016	File: History.SchDoc		Tmp Rev: V032

TOP LEVEL SHEET

DSP
DSP.SchDoc
SPI_CLK
SPI_MOSI
SPI_MISO
SS_DSP
/RESET_DSP
MCLKI
LRCLKAD
BCLKAD
ADATA1
ADATA2
ADATA3
ADATA4
ADATA5
LRCLKDA
BCLKDA
DDATA1
DDATA2
DDATA3
DDATA4
BT_SDATA
BT_LRCLK
BT_BCLK

Bluetooth
Bluetooth_BM23.SchDoc
BT_SDATA
BT_LRCLK
BT_BCLK
BluTth
+8V
BT_RST_N
BT_UART_TX
BT_UART_RX
BT_UART_TX_IND
BT_P0_4
BT_EN

U_Microcontroller
Microcontroller.SchDoc
SPI_CLK
SPI_MOSI
SPI_MISO
SS_DSP
/RESET_DSP
MCLKI
Shutdown
MuteReq
1MLeft
1MRight
SPK_R_EN
LINK_Left_EN
LINK_Right_EN
BT_EN
BT_P0_4
BT_UART_TX_IND
BT_UART_RX
BT_UART_TX
BT_RST_N
/RESET_CODEC
ZERO
Sync1
Sync2
CH_MODE_1
CH_MODE_2
LEVEL_1
REVERB_1
Tone_1
LEVEL_2
REVERB_2
Tone_2
LEVEL_3-4
Bass_3_4
Treble_3_4

CODEC
Codec.SchDoc
MCLKI
LRCLKAD
BCLKAD
ADOUT1
ADOUT2
ADOUT3
ADOUT4
ADOUT5
LRCLKDA
BCLKDA
DAIN1
DAIN2
DAIN3
DAIN4
/RESET_CODEC
ZERO
VIN9
VIN10
9-10Gnd
VIN7
VIN8
7-8Gnd
+5V
VCOMAD1
VCOMAD2
VCOMAD3
VIN1+
VIN1-
VIN2+
VIN2-
VIN3+
VIN3-
VIN4+
VIN4-
VIN5+
VIN5-
VIN6+
VIN6-
VOUT2-
VOUT2+
VOUT1-
VOUT1+
VOUT8-
VOUT8+
VOUT7-
VOUT7+
VOUT6-
VOUT6+
VOUT5-
VOUT5+
VOUT4-
VOUT4+
VOUT3-
VOUT3+
LINE_OUT_GND

A
Mono_CH.SchDoc
CH 1 GTR/MIC
LEVEL
REVERB
Tone
HI_SENS+
HI_SENS-
VCOMAD
LO_SENS+
LO_SENS-
PSGND
CH_In+
CH_In_IG
CH_In-
CH_Clip
CH_MODE_SW

Ch1_InputJacks
Ch1_InputJacks.SchDoc
CH_MODE
CH1_In+
CH1_In_IG
CH1_In-
CH1_Clip
CH1_MODE_SW
IGND
+22V_PH

B
Mono_CH.SchDoc
CH 2 LINE/MIC
Ch2_InputJacks
Ch2_InputJacks.SchDoc
CH2_In+
CH2_In_IG
CH2_In-
CH2_Clip
CH2_MODE_SW

C
CH 3&4 LINE/GTR
CH 3_4 Stereo.SchDoc
LEVEL_3-4
Bass_3_4
Treble_3_4
Ch3_HI_SENS+
Ch3_HI_SENS-
Ch4_HI_SENS+
Ch4_HI_SENS-
Ch3_LO_SENS+
3-4Lgnd
Ch4_LO_SENS+

R149 W125 0R0 0805

Output
Output.SchDoc
Activity
SUB_A-
SUB_A+
SAT_R-
SAT_R+
SAT_L-
SAT_L+
LINE_R_OUT-
LINE_R_OUT+
LINE_L_OUT-
LINE_L_OUT+
LINE_OUT_GND
SAT_L_OUT
SAT_R_OUT
SGND
SUB_A_OUT
1MLeft
1MRight
LINK_Right_EN
LINK_Left_EN
SPK_R_EN
LINK_IN
LINK_IGND

LinkInput
LinkInput.SchDoc
LINK_IN
LINK_IGND
Link_HI_SENS
Link_LO_SENS
LinkGnd

U_LV_PowerSupply
LV_PowerSupply.SchDoc
+8V
PSG
+24V
-24V
+5V
+22V_PH
GND_PH
Sync1
Sync2

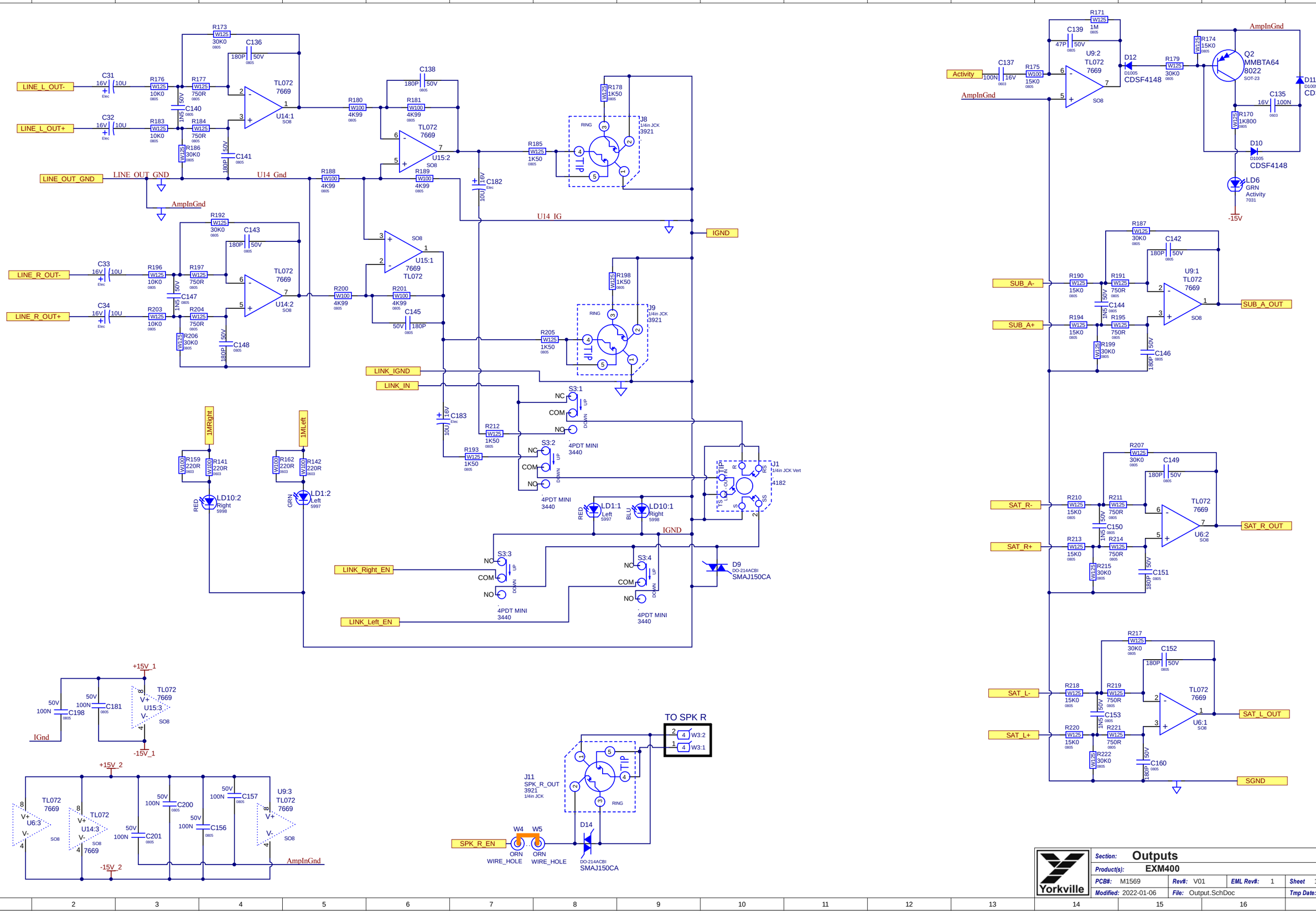
R168 W100 100R 0805
LD8 BLU BT_Status 7030
R6 W100 100R 0805
R167 W125 0R0 0805
Y1 6692 11.2896
C86 220N 50V 1206
L1 600R
3V3
DGND

W2
SAT_L_OUT
SAT_R_OUT
SGND
SUB_A_OUT
SHUTDOWN
MUTEREQ
-24V
10N C204 50V 0805
+24V
PSG
To Power Amp Board

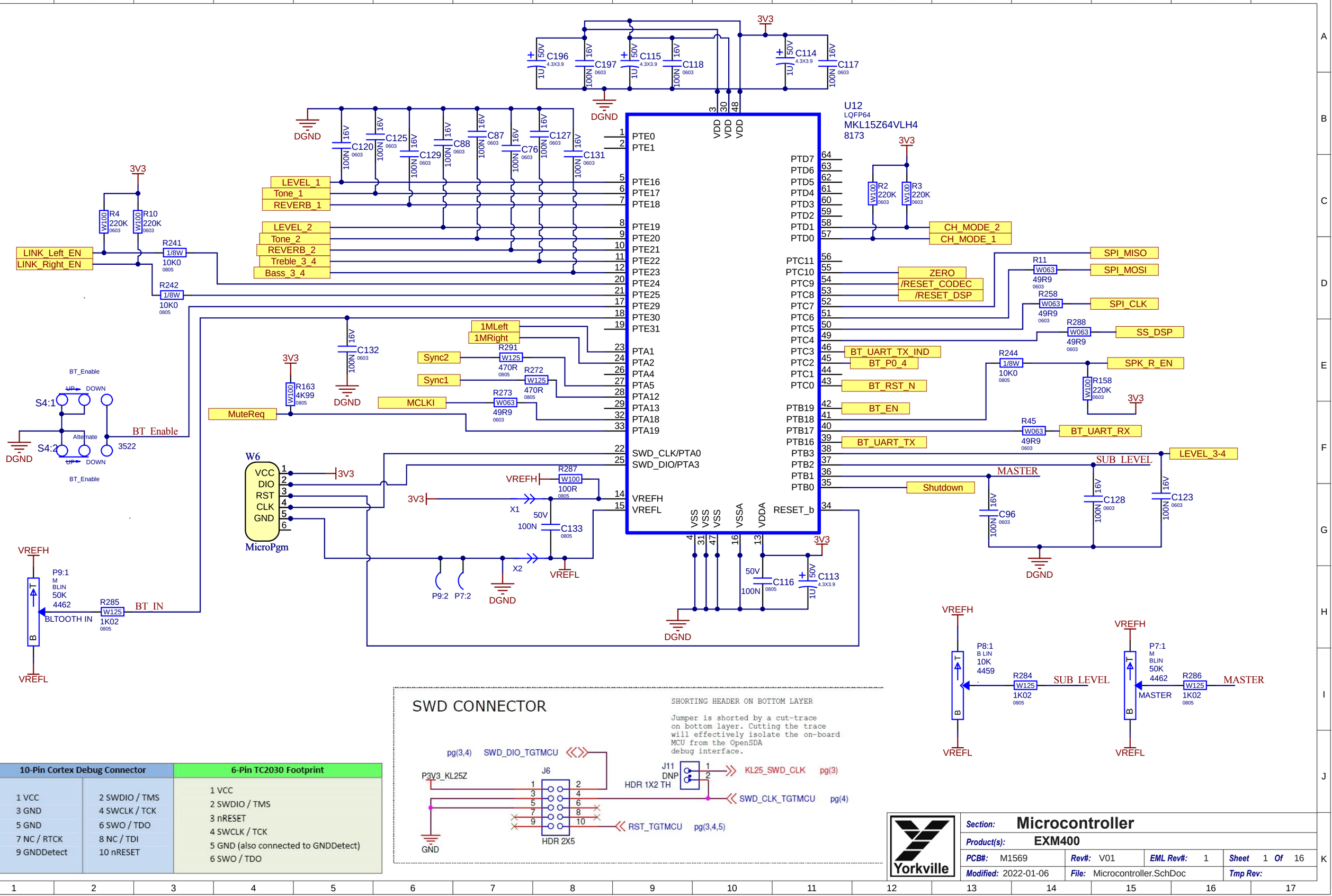
ECO.SchDoc
ECAD INCIDENTAL
Assembly.SchDoc
ASSEMBLY NOTES
History.SchDoc
DESIGN HISTORY

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

Product(s):	EXM400				
Description:	Portable PA System				
PCB#: M1569	Rev#: V01	EML Rev#: 1	Sheet 1 Of 16		
Modified: 2022-01-06	File: Top Sheet.SchDoc		Tmp Date: 04/15/2013		



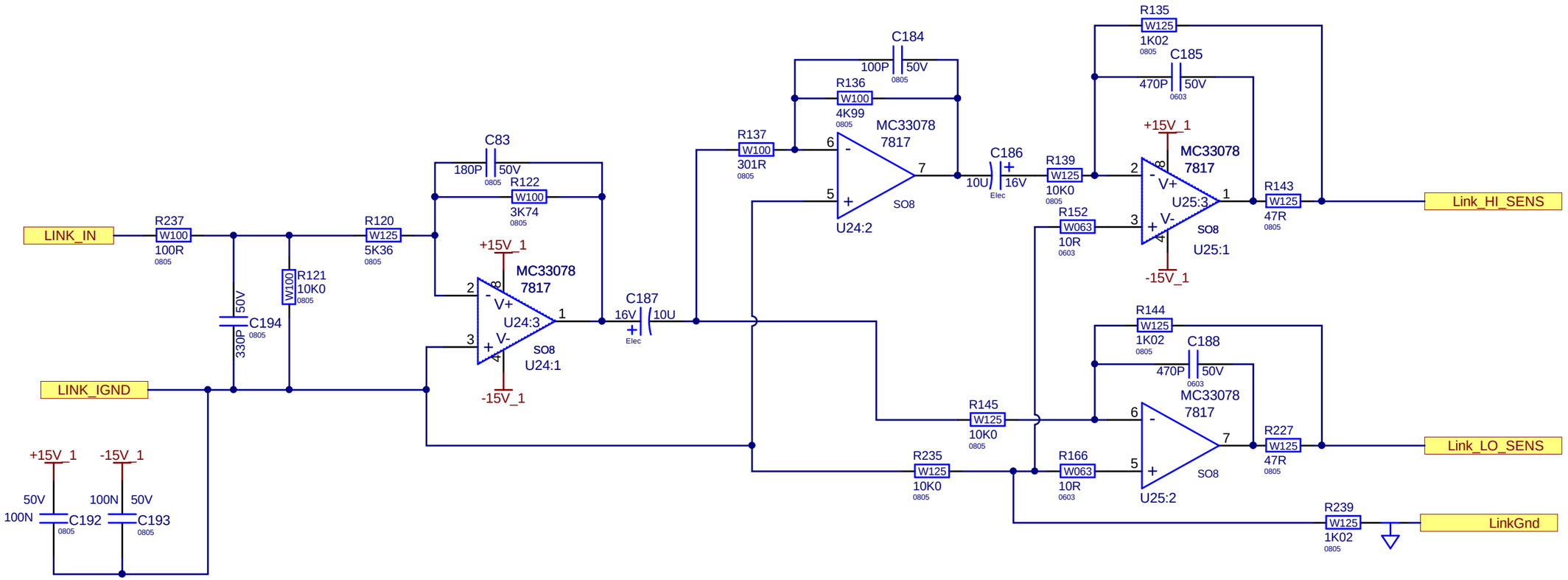
Section:	Outputs
Product(s):	EXM400
PCB#: M1569	Rev#: V01 · EML Rev#: 1 · Sheet 1 Of 16
Modified: 2022-01-06	File: Output.SchDoc · Tmp Date: 04/15/2013



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

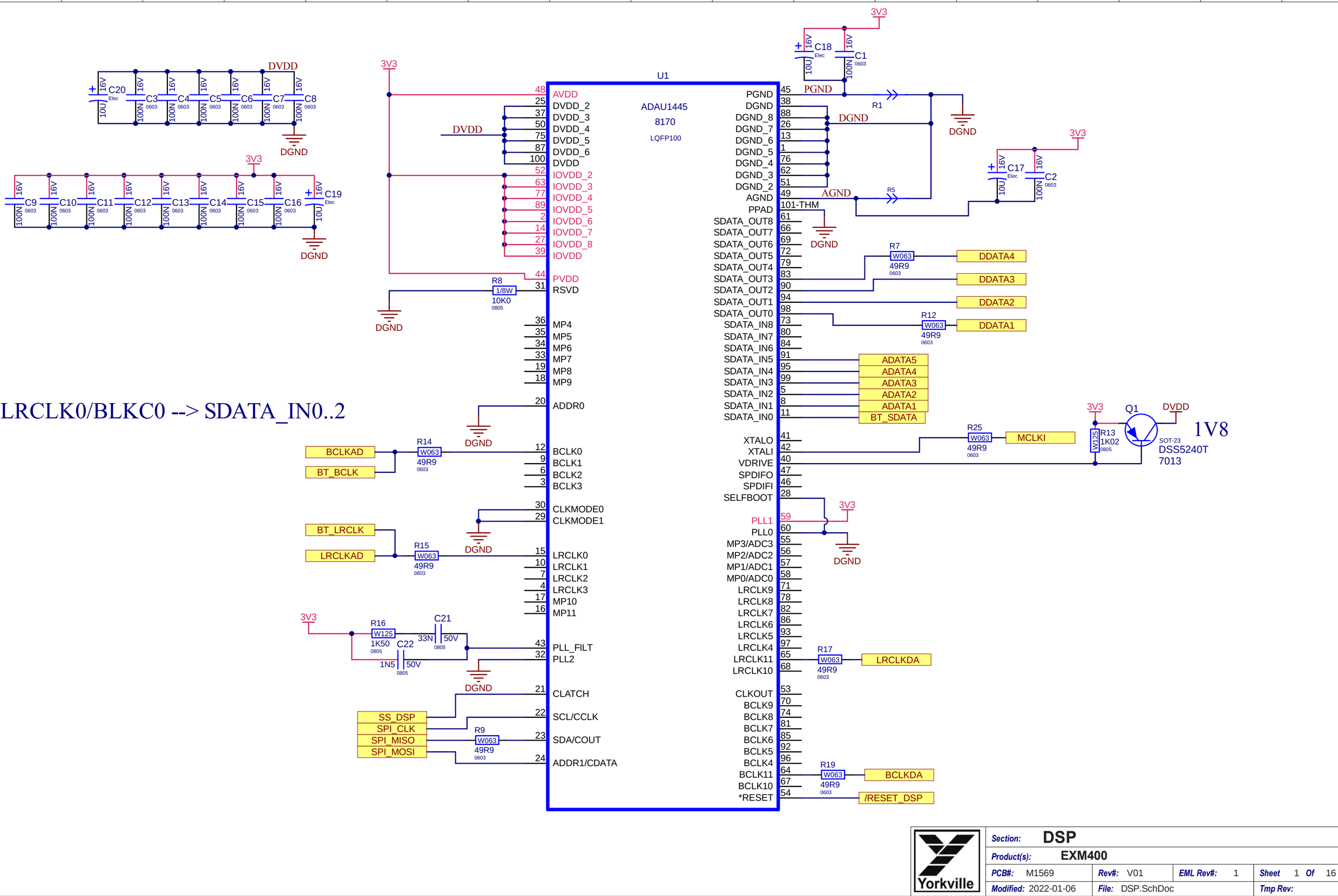
Yorkville

Section: Microcontroller			
Product(s): EXM400			
PCB#: M1569	Rev#: V01	EML Rev#: 1	Sheet 1 Of 16
Modified: 2022-01-06	File: Microcontroller.SchDoc		Tmp Rev:

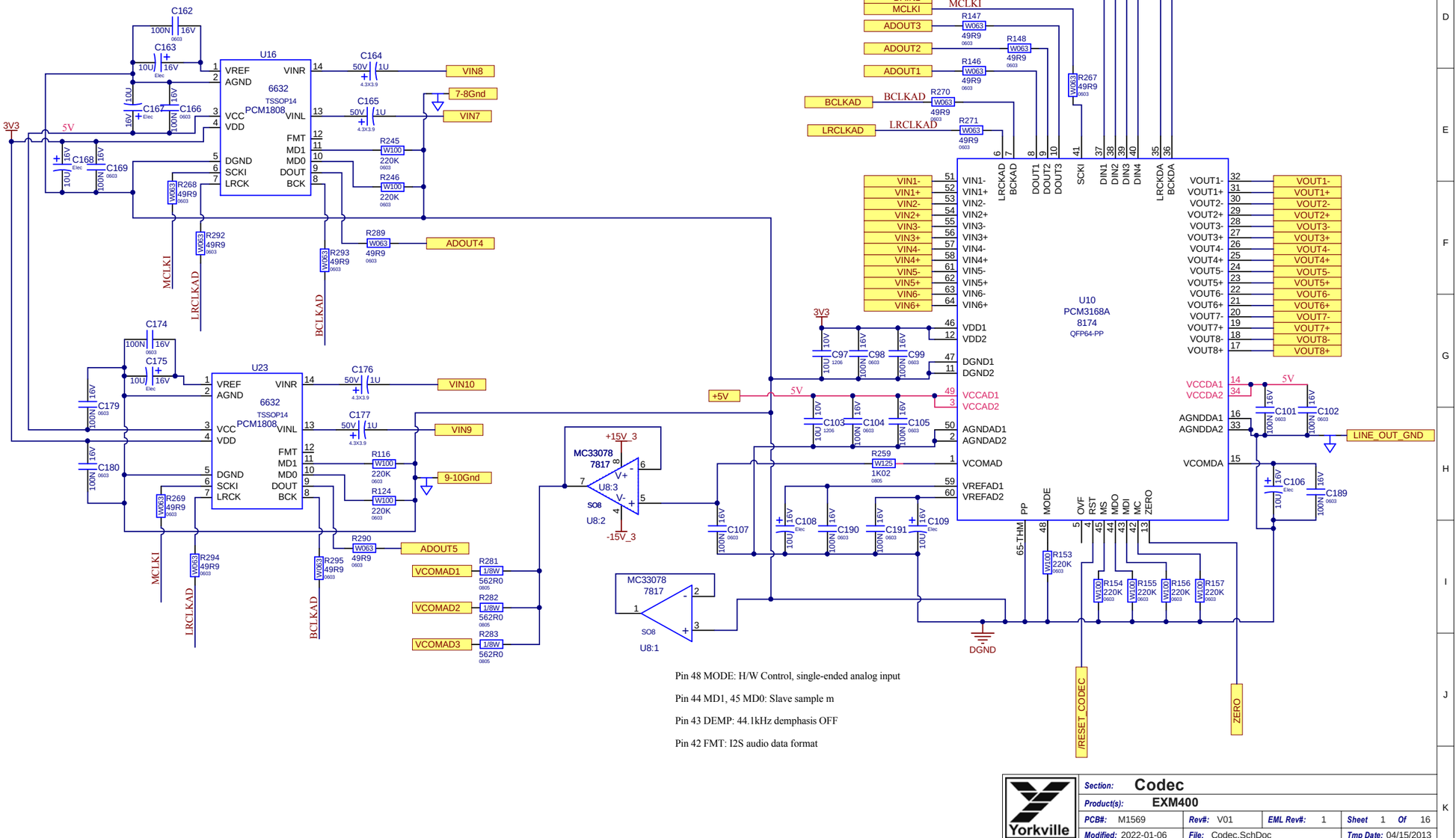


Yorkville

Section: Link Input				
Product(s): EXM400				
PCB#: M1569	**Rev#:** V01	**EML Rev#:** 1	**Sheet** 1 **Of** 16	
Modified: 2022-01-06	**File:** LinkInput.SchDoc		**Tmp Rev:**	



Section: DSP			
Product(s): EXM400			
PCB#: M1569	Rev#: V01	EML Rev#: 1	Sheet 1 Of 16
Modified: 2022-01-06	File: DSP.SchDoc		Tmp Rev:



Section: Codec				
Product(s): EXM400				
PCB#: M1569	Rev#: V01	EML Rev#: 1	Sheet 1 Of 16	
Modified: 2022-01-06	File: Codec.SchDoc		Tmp Date: 04/15/2013	

*NOTE: Mono operation is ensured on either jack until a second cable is connected

C 3 LINE GT

ring
tip
rs
ts
slv
PSGnd
P5:2
U5Gnd
U20Gnd
U5IG
U7Gnd
ClGnd
IGND
RCA_Left
RCA_Right
3-4LoGnd
DGND
VCOMAD
Ch3_HI_SENS+
Ch3_HI_SENS-
Ch4_HI_SENS+
Ch4_HI_SENS-
Ch3_LO_SENS+
Ch4_LO_SENS+
LEVEL_3-4
Treble_3_4
Bass_3_4
VREFH
VREFL
+15V_1
-15V_1
+15V_3
-15V_3
+15V_4
-15V_4
+15V_5

J5 1/4in JCK 3921
J6 1/4in JCK 3921
J7 4186 3.5mm JCK

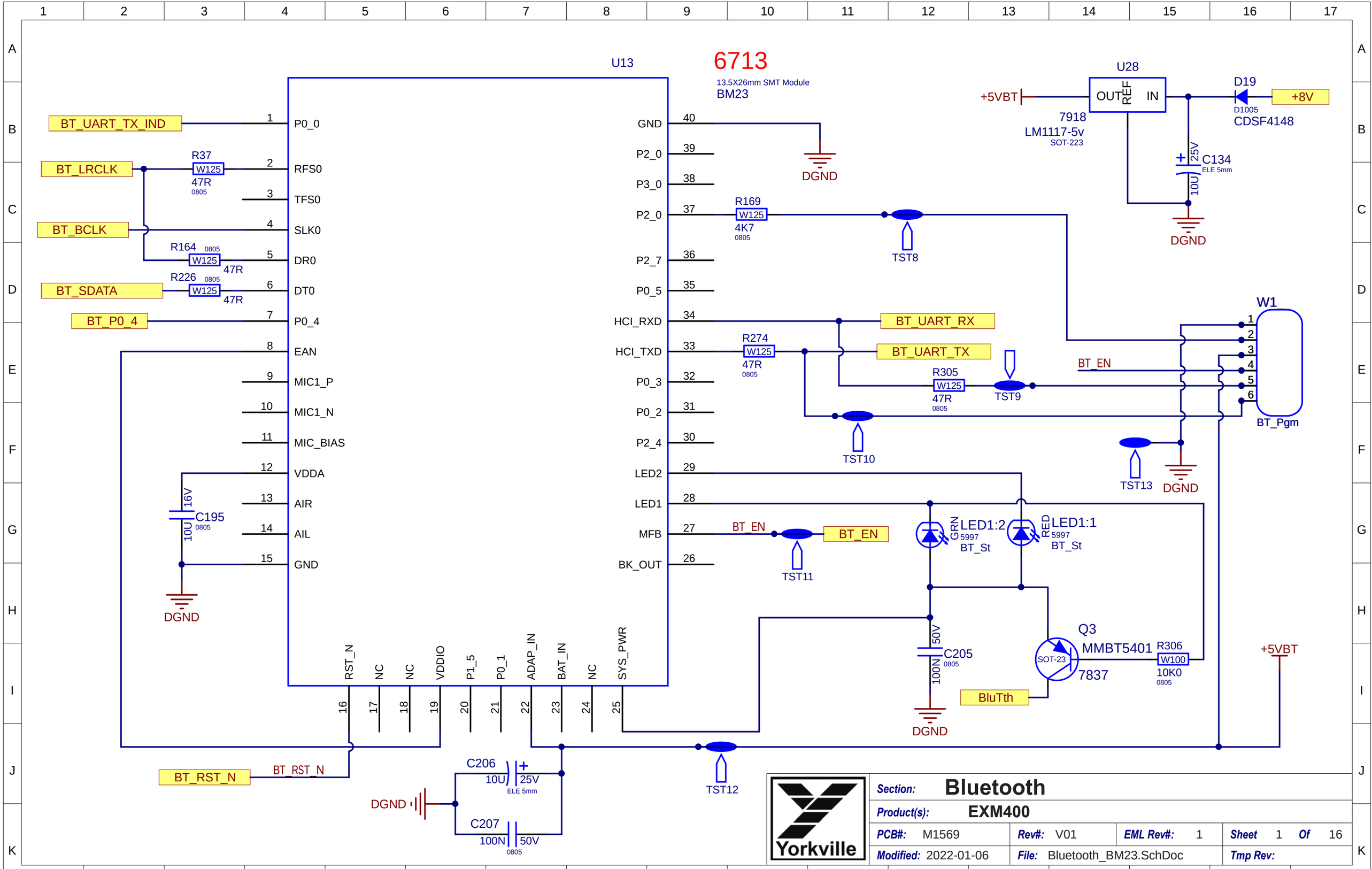
MC33078 7817 SO8
U5:1 U5:2 U5:3
U7:1 U7:2 U7:3
U20:1 U20:2
U27:1 U27:2
U21:1 U21:2
U19:1 U19:2
U20:3 U19:3 U21:3 U27:3

MMBTA14LTIG Q6 7701 SOT-23
CDSF4148 D5 D6 D7 D8 D15 D16 D1005
LD7 RED 7033 Clip

P4:1 BLIN 50K 4462
P5:1 B LIN 10K 4459
P6:1 B LIN 10K 4459

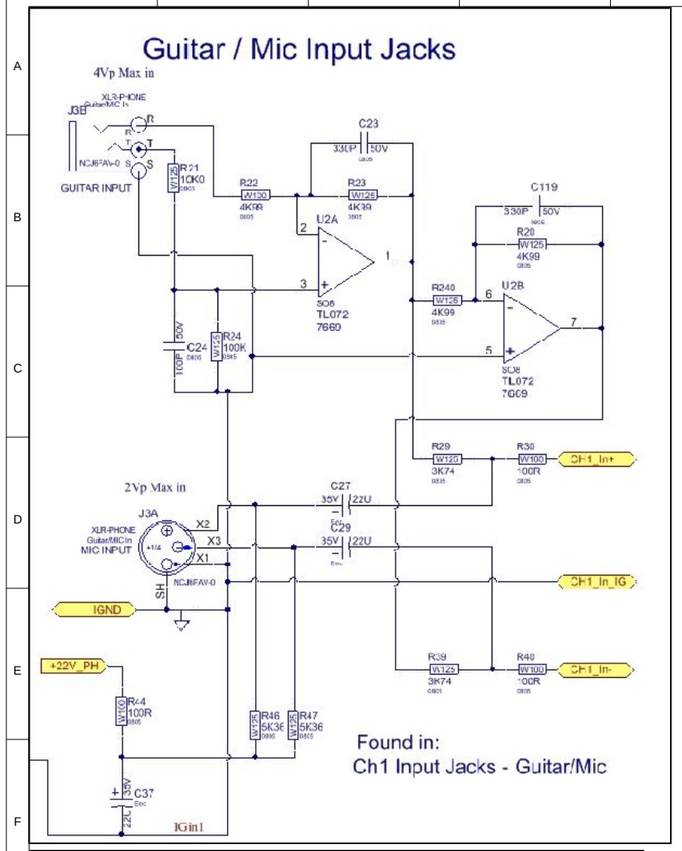
Section:	Stereo Channel
Product(s):	EXM400
PCB#: M1569	Rev#: V01
EML Rev#: 1	Sheet 1 Of 16
Modified: 2022-01-06	File: CH 3_4 Stereo.SchDoc
Tmp Date: 04/15/2013	

Yorkville

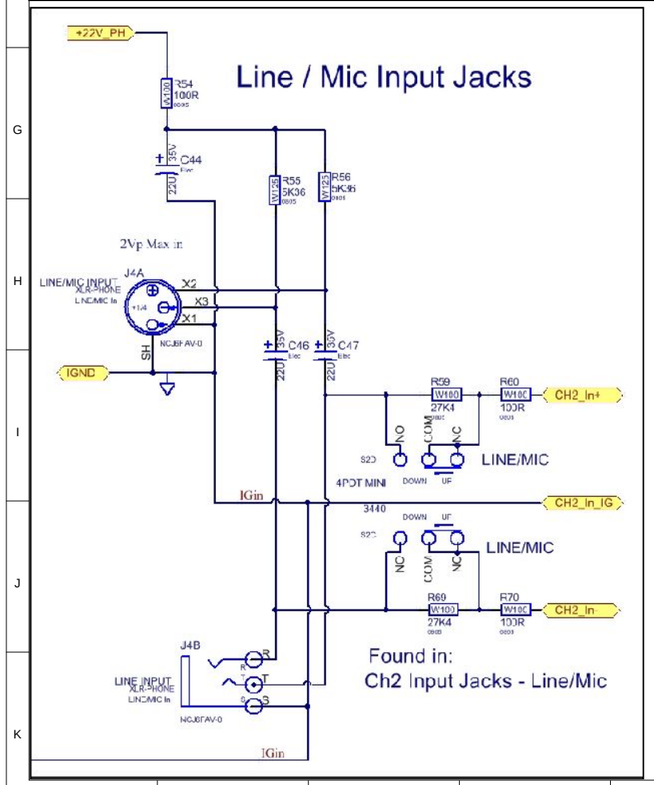

U13
6713
13.5X26mm SMT Module
BM23
BT_UART_TX_IND
BT_LRCLK
BT_BCLK
BT_SDATA
BT_P0_4
R37
W125
47R
0805
R164
R226
P0_0
RFS0
TFS0
SLK0
DR0
DT0
P0_4
EAN
MIC1_P
MIC1_N
MIC_BIAS
VDDA
AIR
AIL
GND
C195
16V
10U
0805
DGND
GND
P2_0
P3_0
P2_7
P0_5
HCI_RXD
HCI_TXD
P0_3
P0_2
P2_4
LED2
LED1
MFB
BK_OUT
R169
4K7
TST8
BT_UART_RX
BT_UART_TX
R274
47R
R305
TST9
TST10
TST13
BT_EN
W1
BT_Pgm
U28
+5VBT
OUT
REF
IN
7918
LM1117-5v
SOT-223
D19
D1005
CDSF4148
+8V
C134
ELE 5mm
25V
10U
LED1:2
LED1:1
GRN
RED
5997
BT_St
TST11
Q3
MMBT5401
SOT-23
7837
R306
W100
10K0
C205
50V
100N
BluTth
RST_N
NC
VDDIO
P1_5
P0_1
ADAP_IN
BAT_IN
SYS_PWR
BT_RST_N
C206
C207
TST12
Yorkville
Section: Bluetooth
Product(s): EXM400
PCB#: M1569
Rev#: V01
EML Rev#: 1
Sheet 1 Of 16
Modified: 2022-01-06
File: Bluetooth_BM23.SchDoc
Tmp Rev:

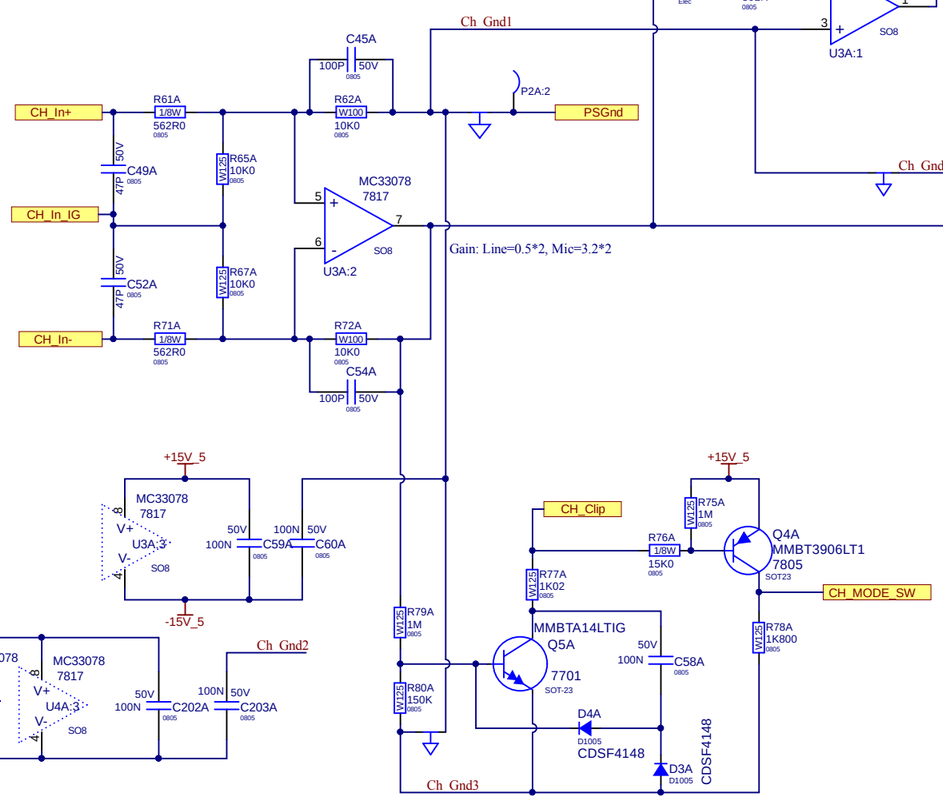
C 1 GT MIC

Guitar / Mic Input Jacks

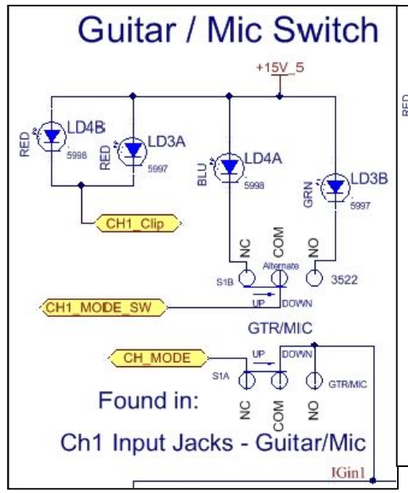


Line / Mic Input Jacks

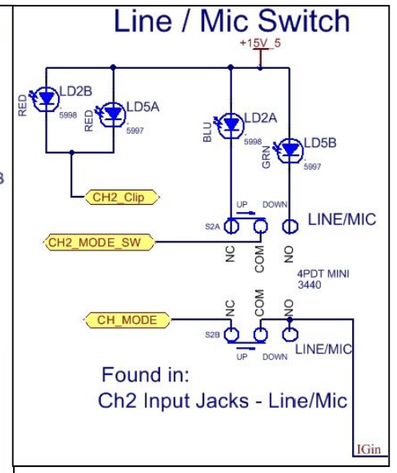




Guitar / Mic Switch



Line / Mic Switch



Yorkville	Section: Mono Channel			
	Product(s): EXM400			
	PCB#: M1569	Rev#: V01	EML Rev#: 1	Sheet 1.1 Of 16
	Modified: 2022-01-06	File: Mono_Ch.SchDoc		Tmp Date: 04/15/2013

C LINE MIC

Guitar / Mic Input Jacks

4Vp Max in

XLR-PHONE Guitar/MIC In

J3B — NCJ6FAV-0 — GUITAR INPUT

R21 10K0 — R22 4K99 — C23 330P 50V — R23 4K99

U2A — SO8 TL072 7660

C119 330P 50V — R20 4K99 — R240 4K99

U2B — SO8 TL072 7669

C24 100P — R24 100K

R29 3K74 — R30 0OR — CH1_In+

2Vp Max in

J3A — XLR-PHONE Guitar/MIC In MIC INPUT — NCJ6FAV-0

C27 22U 35V — C29 22U 35V

CH1_In_IG

IGND

R39 3K74 — R40 0OR — CH1_In-

+22V_PH — R44 100R — R46 5K36 — R47 5K36 — C37 22U 35V

IGin1

Found in:
Ch1 Input Jacks - Guitar/Mic

Line / Mic Input Jacks

+22V_PH — R54 100R — C44 220U 35V

2Vp Max in

J4A — XLR-PHONE LINE/MIC In LINE/MIC INPUT — NCJ6FAV-0

R55 5K36 — R56 5K36 — C46 220U 35V — C47 220U 35V

IGND

R59 27K4 — R60 100R — CH2_In+

S2D 4PDT MINI 3440 — NO COM NC — DOWN UP — LINE/MIC

IGin

CH2_In_IG

R69 27K4 — R70 100R — CH2_In-

J4B — XLR-PHONE LINE/MIC In LINE INPUT — NCJ6FAV-0

Found in:
Ch2 Input Jacks - Line/Mic

IGin

CH_In+ / CH_In_IG / CH_In- (Line=0.5*2, Mic=3.2*2)

CH_In+ — R61B 562R0 1/8W — C49B 47P 50V — R65B 10K0

CH_In_IG

CH_In- — R71B 562R0 1/8W — C52B 47P 50V — R67B 10K0

C45B 100P 50V — R62B 10K0 — Ch_Gnd1 — P2B:2 — PSGnd

C54B 100P 50V — R72B 10K0

U3B:2 MC33078 7817 SO8

Gain: Line=0.5*2, Mic=3.2*2

C171B 16V 10U Elec — R63B 301R — C67B 100P 50V — R57B 4K99

U3B:1 MC33078 7817 SO8

Ch_Gnd2

C48B 10U 16V Elec — R64B 10K0 — R255B 10R — U4B:1 MC33078 7817 SO8 — R66B 47R — HI_SENS+

R58B 1K02 — C25B 3N3 25V — R86B 1K02 — C50B 10N 50V — HI_SENS-

R89B 1K02 — C55B 47P 50V

U4B:2 MC33078 7817 SO8 — R109B 10R — R107B 47R

VCOMAD

C53B 10U 16V Elec — R73B 10K0 — R256B 10R — U26B:1 MC33078 7817 SO8 — R74B 47R — LO_SENS+

R68B 1K02 — C26B 3N3 25V — C57B 100N 50V — P3B:2 — P1B:2 — DGND

R225B 1K02 — C51B 10N 50V

R236B 1K02 — C56B 47P 50V

U26B:2 MC33078 7817 SO8 — R250B 10R — R243B 47R — LO_SENS-

+15V_5 / -15V_5 / +15V_3 / -15V_3

+15V_5 — U3B:3 MC33078 7817 SO8 — C59B 100N 50V — C60B 100N 50V

-15V_5

+15V_3 — U26B:3 MC33078 7817 SO8 — U4B:3 MC33078 7817 SO8 — C202B 100N 50V — C203B 100N 50V

-15V_3

Ch_Gnd2

CH_Clip / CH_MODE_SW / Ch_Gnd3

CH_Clip — R76B 15K0 1/8W — R75B 1M — Q4B MMBT3906LT1 7805 SOT23 — CH_MODE_SW

R77B 1K02 — MMBTA14LTIG Q5B 7701 SOT-23 — C58B 100N 50V — R78B 1K800

R79B 1M — R80B 150K — D4B D1005 CDSF4148 — D3B D1005 CDSF4148

Ch_Gnd3

VREFH / VREFL

VREFH — P1B:1 M BLIN 50K 4462 — R275B 1K02 — LEVEL

VREFH — P3B:1 M BLIN 10K 4459 — R276B 1K02 — Tone

VREFH — P2B:1 M BLIN 50K 4462 — R277B 1K02 — REVERB

VREFL

Guitar / Mic Switch

+15V_5 — LD4B RED 5998 — LD3A RED 5997 — LD4A BLU 5998 — LD3B GRN 5997

CH1_Clip

S1B 3522 — NC COM NO — Alternate — UP DOWN

CH1_MODE_SW

GTR/MIC

CH_MODE — S1A — UP DOWN — NC COM NO — GTR/MIC

Found in:
Ch1 Input Jacks - Guitar/Mic

IGin1

Line / Mic Switch

+15V_5 — LD2B RED 5998 — LD5A RED 5997 — LD2A BLU 5998 — LD5B GRN 5997

CH2_Clip

CH2_MODE_SW — S2A — UP DOWN — NC COM NO — LINE/MIC

4PDT MINI 3440

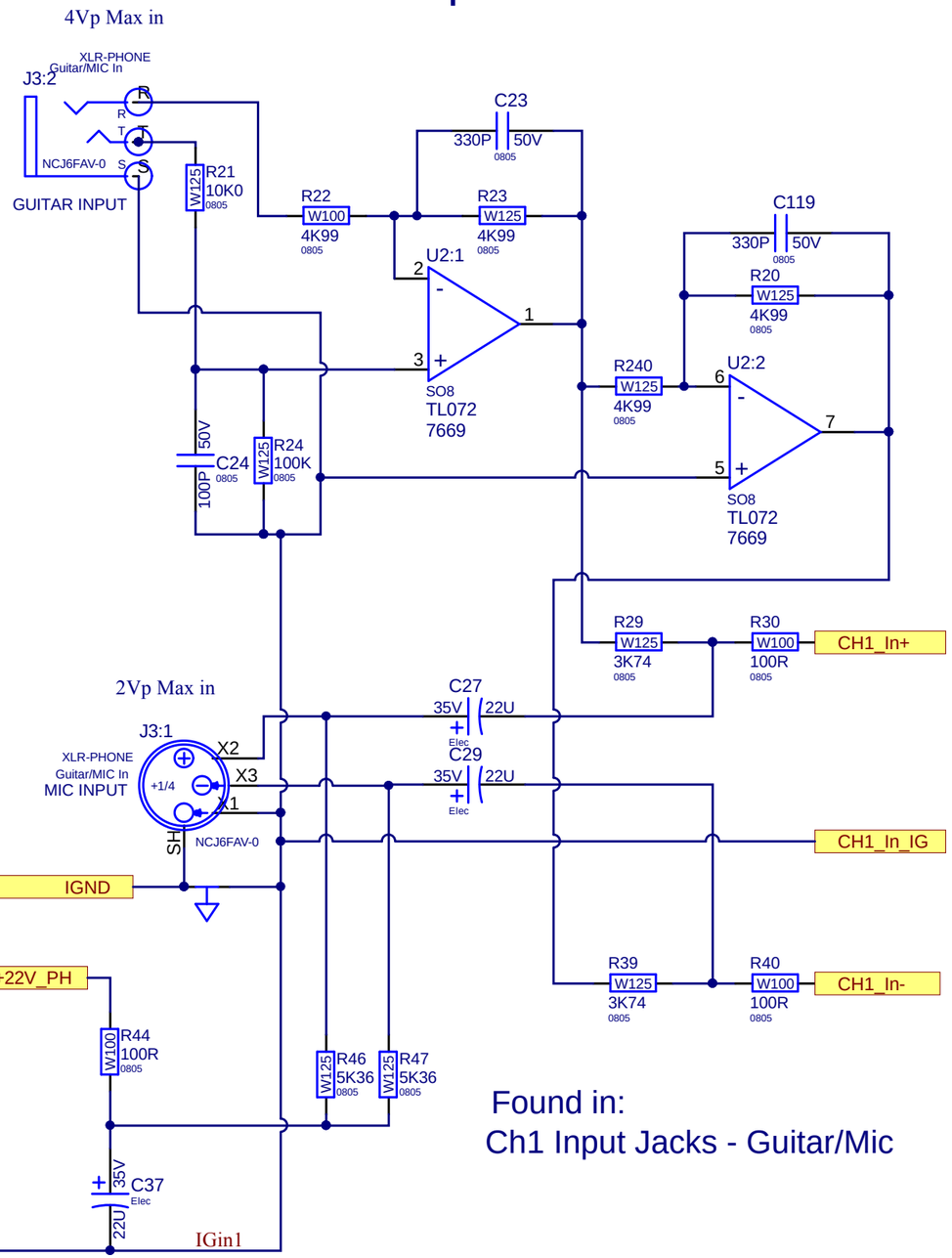
CH_MODE — S2B — UP DOWN — NC COM NO — LINE/MIC

Found in:
Ch2 Input Jacks - Line/Mic

IGin

Yorkville	Section: Mono Channel			
	Product(s): EXM400			
	PCB#: M1569	Rev#: V01	EML Rev#: 1	Sheet 1.2 Of 16
	Modified: 2022-01-06	File: Mono_Ch.SchDoc		Tmp Date: 04/15/2013

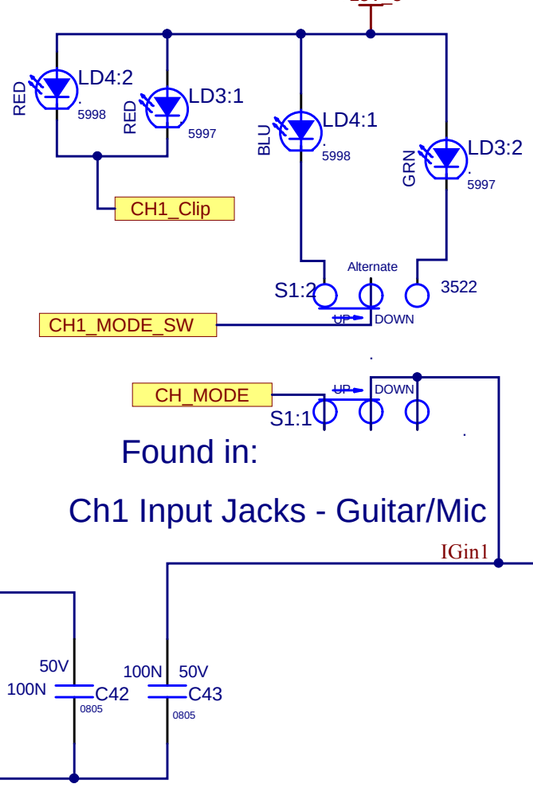
Guitar / Mic Input Jacks



Found in:

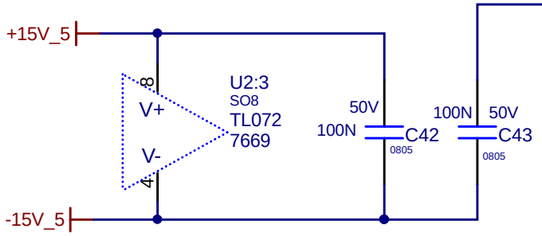
Ch1 Input Jacks - Guitar/Mic

Guitar / Mic Switch



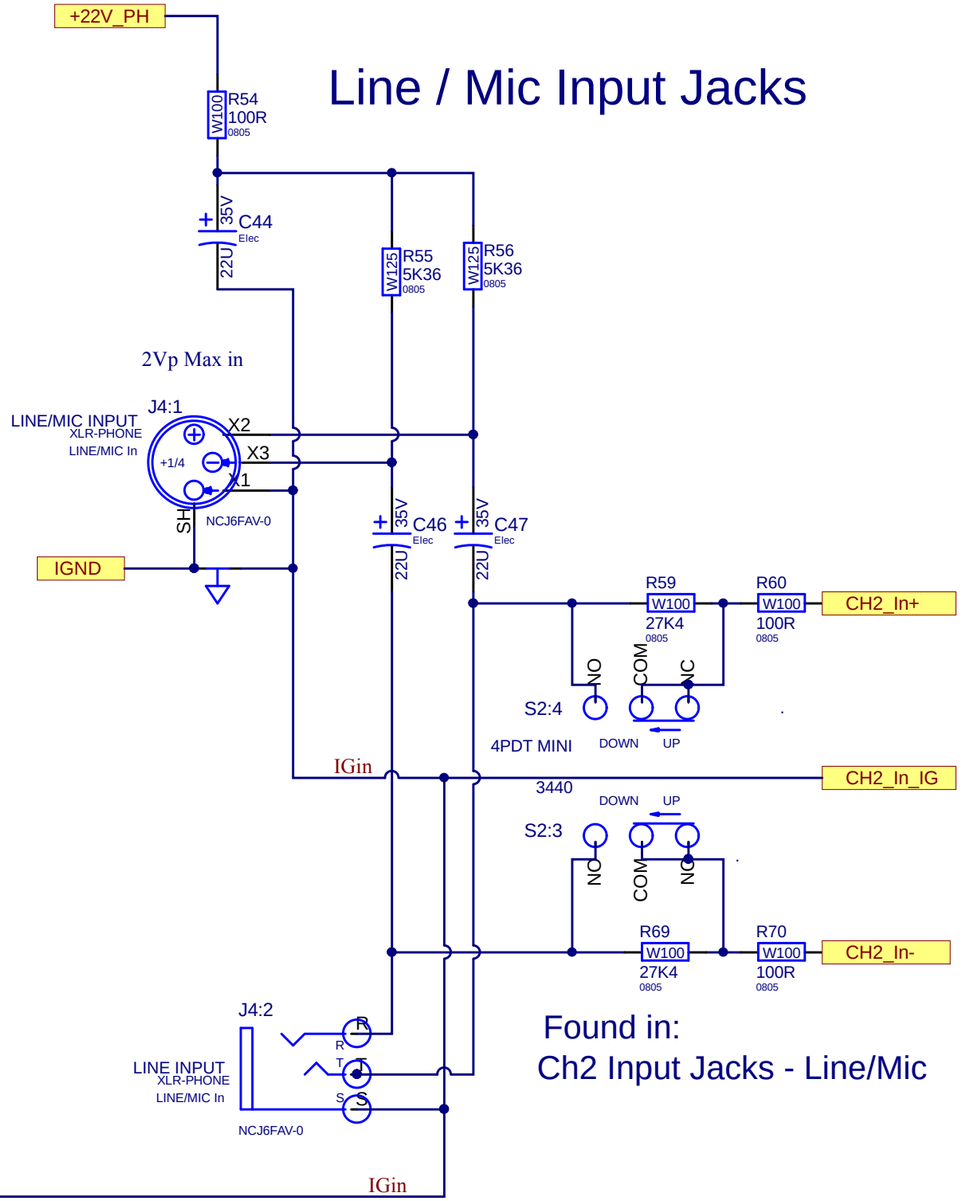
Found in:

Ch1 Input Jacks - Guitar/Mic



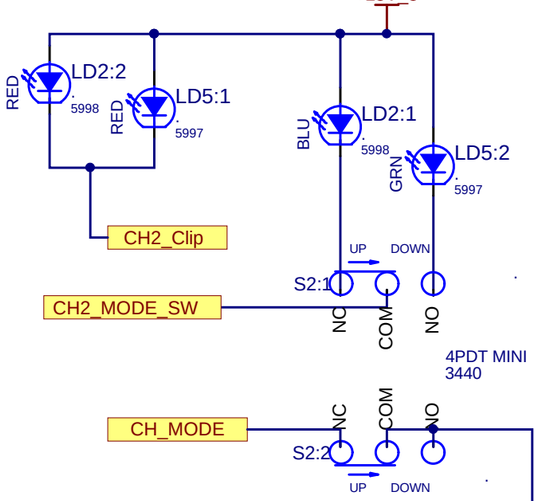
Section: **Ch1 Input Jacks - Guitar/Mic**			
Product(s): **EXM400**			
PCB#: M1569	Rev#: V01	EML Rev#: 1	Sheet * Of 16
Modified: 2022-01-06	File: Ch1_InputJacks.SchDoc		Tmp Rev:

Line / Mic Input Jacks



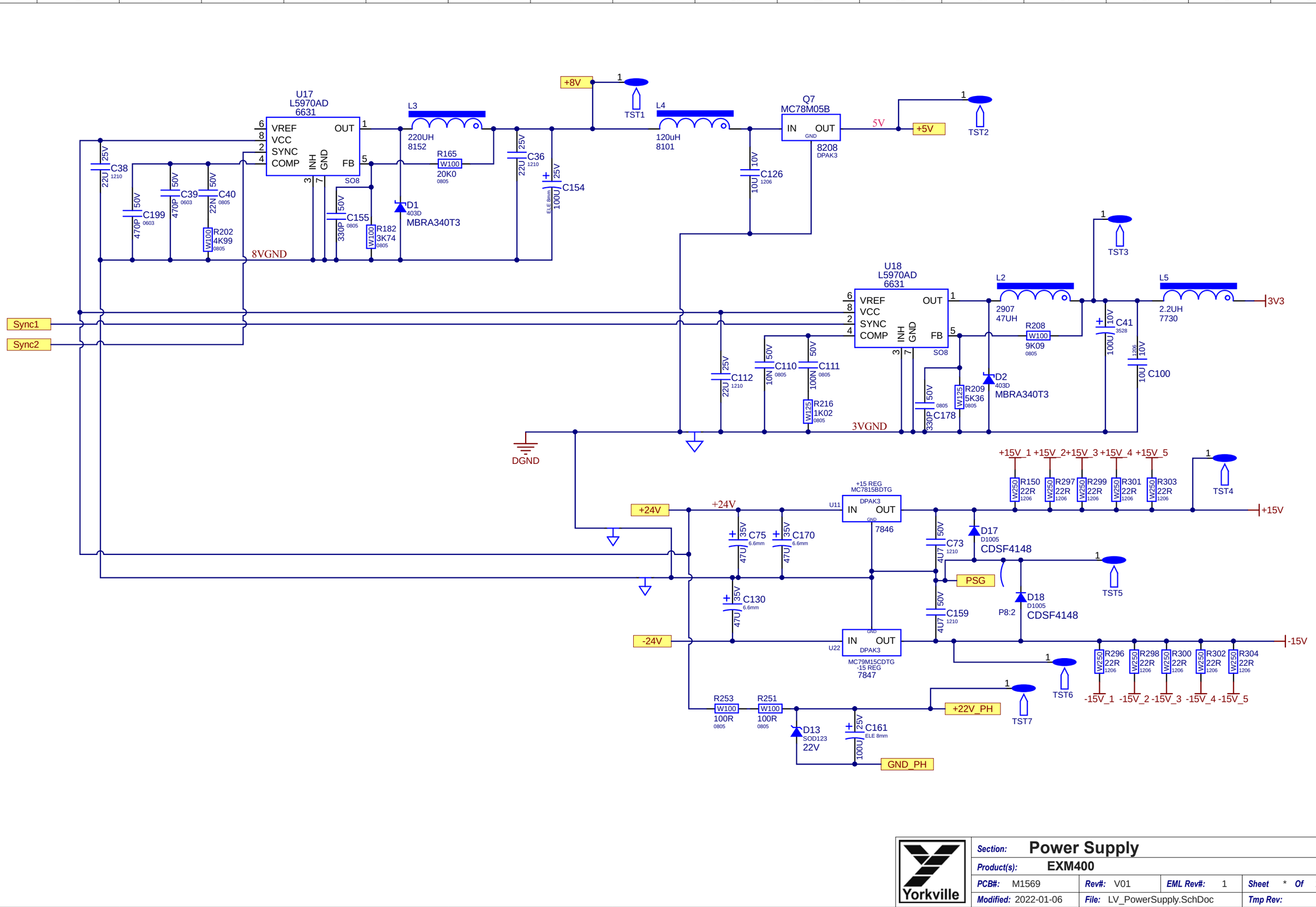
Found in:
Ch2 Input Jacks - Line/Mic

Line / Mic Switch



Found in:
Ch2 Input Jacks - Line/Mic

Yorkville	Section: Ch2 Input Jacks - Line/Mic			
	Product(s): EXM400			
	PCB#: M1569	Rev#: V01	EML Rev#: 1	Sheet * Of 16
	Modified: 2022-01-06	File: Ch2_InputJacks.SchDoc		Tmp Rev:



Section:	**Power Supply**		
Product(s):	**EXM400**		
PCB#: M1569	**Rev#:** V01	**EML Rev#:** 1	**Sheet** * **Of** 16
Modified: 2022-01-06	**File:** LV_PowerSupply.SchDoc		**Tmp Rev:**

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	05-JAN-2022	V01	.	RELEASED FOR PRODUCTION
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

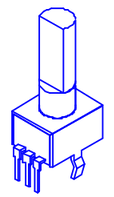
#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	.	.	.	.
2	.	.	.	.
3	.	.	.	.
4	.	.	.	.
5	.	.	.	.
6	.	.	.	.
7	.	.	.	.
8	.	.	.	.
9	.	.	.	.
10	.	.	.	.
11	.	.	.	.
12	.	.	.	.
13	.	.	.	.

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

POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P1A	LEVEL	4462	P32	8653
P1B	LEVEL	4462	P32	8653
P2A	REVERB	4462	P32	8653
P2B	REVERB	4462	P32	8653
P3A	Tone	4461	P32	8653
P3B	Tone	4461	P32	8653
P4	LEVEL	4462	P32	8653
P5	Bass	4461	P32	8653
P6	Treble	4461	P32	8653
P7	MASTER	4462	P32	8653
P8	Sub	4461	P32	8653
P9	BLTOOTH IN	4462	P32	8653
.	.	.	.	.

ECZ2



"STYLE_P32"

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
S1	GTR/MIC	3522	.	9071
S2	LINE/MIC	3440	.	9072
S3	L/R_ASSIGN	3440	.	9073
S4	BT_ENABLE	3522	.	8637
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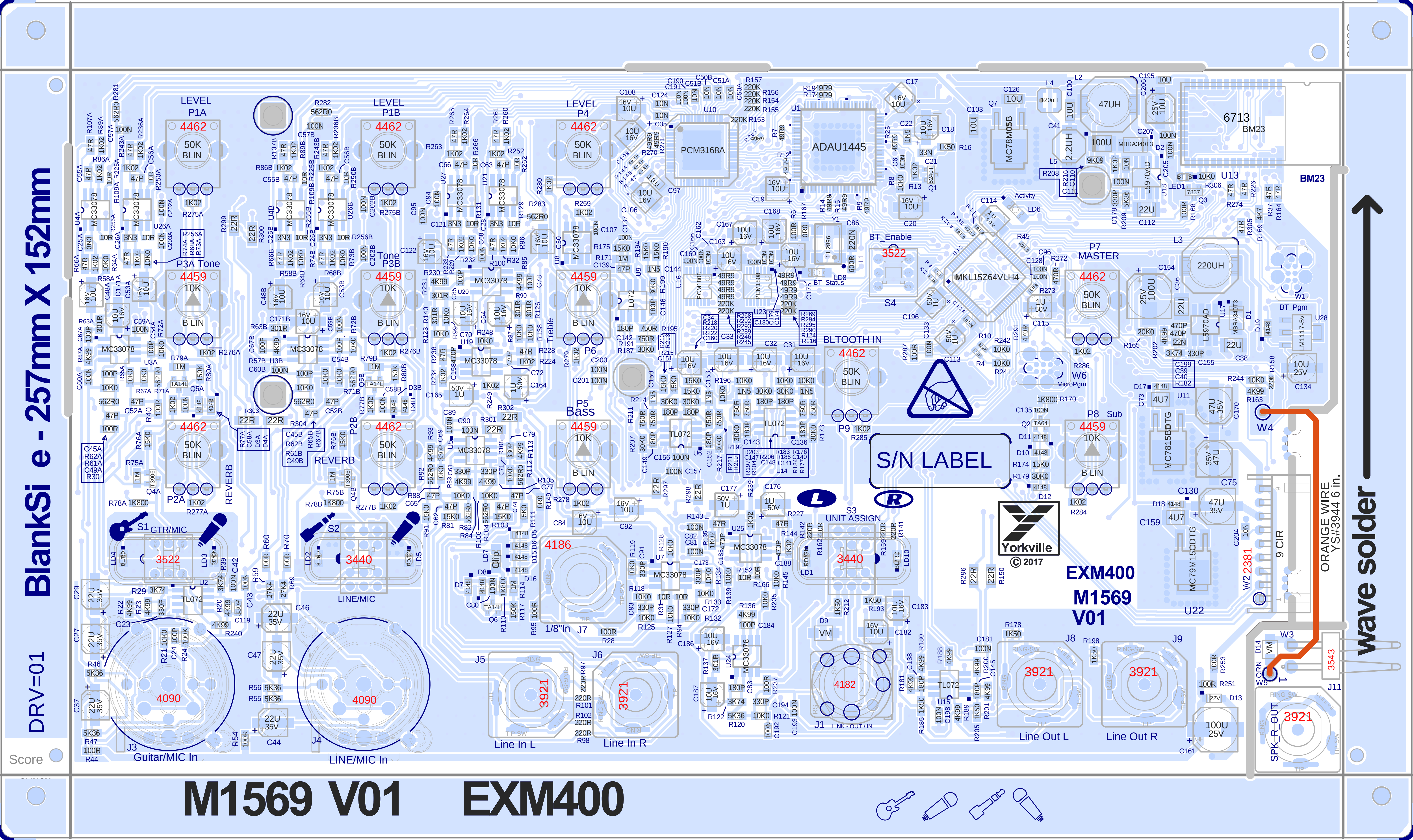
LEADS AND PINS REFERENCE

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):	EXM400			
PCB#: M1569	Rev#: V01	EML Rev#: 1	Sheet 1 Of 16	
Modified: 2022-01-06	File: History.SchDoc		Tmp Date: 04/15/2013	



BlankSi e - 257mm X 152mm
DRV=01
Score
LEVEL P1A
LEVEL P1B
LEVEL P4
P3A Tone
Tone P3B
Treble
P5 Bass
P6
P2A
REVERB
P2B
P7 MASTER
P8 Sub
P9
BLTOOTH IN
BT_Enable
BT_Status
BT_Pgm
MicroPgm
Activity
S/N LABEL
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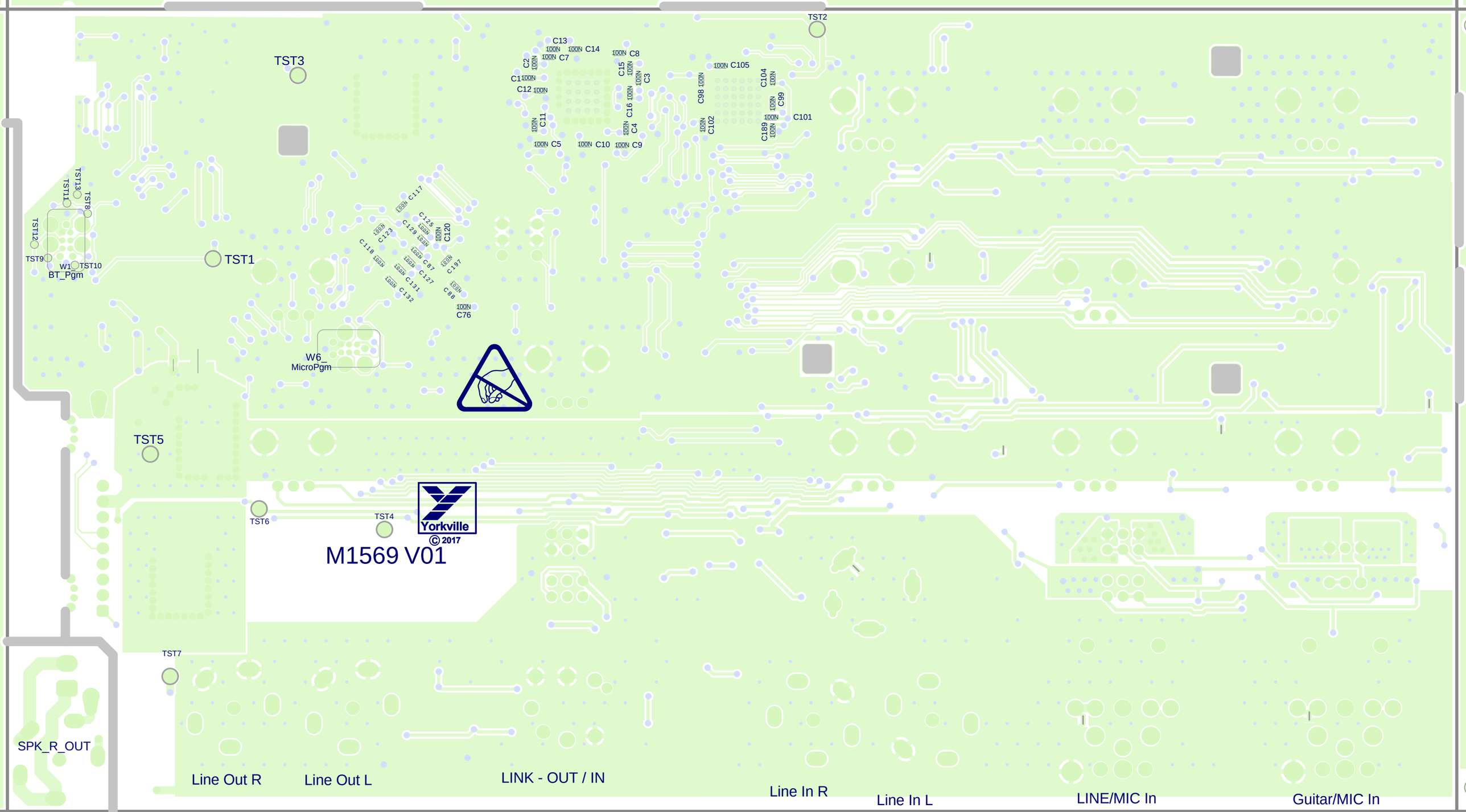
EXM400
M1569
V01
S1 GTR/MIC
S2 LINE/MIC
S3 UNIT ASSIGN
Clip
1/8"In J7
J3 Guitar/MIC In
J4 LINE/MIC In
J5 Line In L
J6 Line In R
J8 Line Out L
J9 Line Out R
J1 LINK - OUT / IN
J11
SPK_R_OUT
9 CIR
ORANGE WIRE YS#3944 6 in.
wave solder
PCM3168A
ADAU1445
MKL15Z64VLH4
MC78M05B
MC7815BDTG
MC79M15CDTG
6713 BM23
BM23
M1569 V01 EXM400



M1569 V01 EXM400

PCB ASSEMBLY DOCUMENTATION

SPECIAL PRODUCTION NOTES

M1567 PRODUCTION NOTES

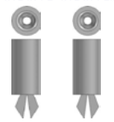
1_Insert Orange wire to W4 and W5.

2_Use wave soldering shield for Bottom SMT parts.

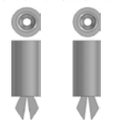
PCB HARDWARE

STANDOFFS

STDOFF1 STDOFF13



STDOFF17 STDOFF14



MISCELLANEOUS

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

Yorkville	Section: Assembly Documentation				
	Product(s): EXM400				
	PCB#: M1569	Rev#: V01	EML Rev#: 1	Sheet 1 Of *	
	Modified: 2022-01-06	File: Assembly.SchDoc		Tmp Date: 04/15/2013	

DESIGN HISTORY AND INFORMATION

CHANGE HISTORY

#	DATE	VER#	PC#	DESCRIPTION OF CHANGE
1	05-JAN-2022	V01	.	RELEASED FOR PRODUCTION
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POTENTIOMETERS AND KNOBS

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
P1A	LEVEL	4462	P32	8653
P1B	LEVEL	4462	P32	8653
P2A	REVERB	4462	P32	8653
P2B	REVERB	4462	P32	8653
P3A	Tone	4461	P32	8653
P3B	Tone	4461	P32	8653
P4	LEVEL	4462	P32	8653
P5	Bass	4461	P32	8653
P6	Treble	4461	P32	8653
P7	MASTER	4462	P32	8653
P8	Sub	4461	P32	8653
P9	BLTOOTH IN	4462	P32	8653
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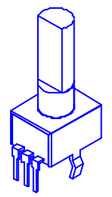

"STYLE_P32"

ECZ2

POTENTIOMETERS/SWITCHES AND KNOBS				
REF	FUNCTION	POT/SW YS#	STYLE	KNOB#
S1	GTR/MIC	3522	.	9071
S2	LINE/MIC	3440	.	9072
S3	L/R_ASSIGN	3440	.	9073
S4	BT_ENABLE	3522	.	8637
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LEADS AND PINS REFERENCE

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Section: Design Information And History			
Product(s): EXM400			
PCB#: M1569	Rev#: V01	EML Rev#: 1	Sheet 1 Of *
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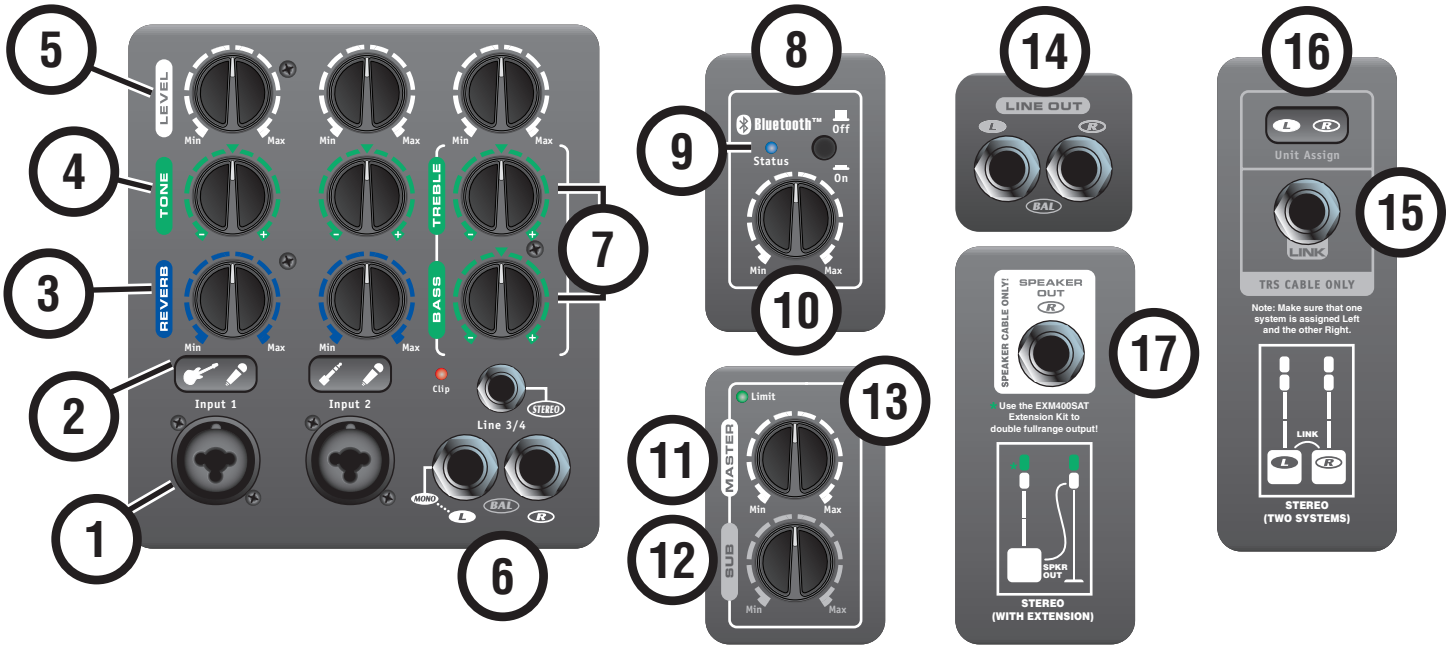
EXM 400 QuickStart



1. Ch. 1 & 2 Inputs - Balanced phone/XLR combi jacks. 24V phantom power is supplied to the XLR jacks.

2. Ch. 1 & 2 Input Select - Configures Input 1 for guitar or microphone. On Channel 2, it configures the input for a line level source or microphone.

3. Ch. 1 & 2 Reverb - A hall reverb is available on Channel 1 and 2.

4. Ch. 1 & 2 Tone Controls - Turning clockwise increases treble and reduces bass. Turning counter-clockwise increases bass and reduces treble.

5. Level Controls - Use these controls to adjust the channel's level in the overall system mix.

6. Ch. 3/4 Inputs - The TRS phone jacks and the 1/8-inch stereo jacks on Channel 3/4 are meant for Line level signals.

7. Tone Controls - Channel 3/4 is equipped with treble and bass tone controls.

8. Pairing Bluetooth™ - With the Enable Button depressed, go to the Bluetooth™ menu on your audio device. You will see a device named "YS-####." Select this device to initiate pairing. Once you see the "YS-####" device connected, you will now be able to stream audio to the EXM400.

9. Bluetooth™ Status - A fast blinking light indicates an available, unpaired connection. Clusters of three short bursts mean there's an active connection. No light means that Bluetooth™ is disabled or connection has been lost.

10. Bluetooth™ Level - Use this control to set the audio level for the Bluetooth™ connection.

11. Master Control - Use the Master control to set the overall volume level of the EXM400.

12. Sub Control - The sub control sets the relative level of the subwoofer to the satellite speakers.

13. Limit Indicator - The Limit Indicator will begin to flash red when the internal limiter starts to engage.

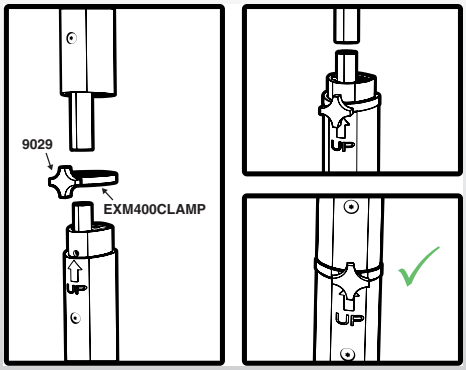
14. Line Out Jacks - These jacks provide line level stereo output from the input channels and Bluetooth™ connection.

15. Link Jack - Used for LINKing two EXM400s together.

16. Unit Assign Button - When linking a pair of EXM400 systems, each unit must be assigned to the left or right side.

17. Speaker Out Jack - For connecting satellite speakers. Switches the output from mono to stereo operation.

18. Mic Stand Adapter - An adapter is provided (not shown) to mount satellite speakers on a standard microphone stand.



EXM 400 Speaker Pole Locking Mechanism

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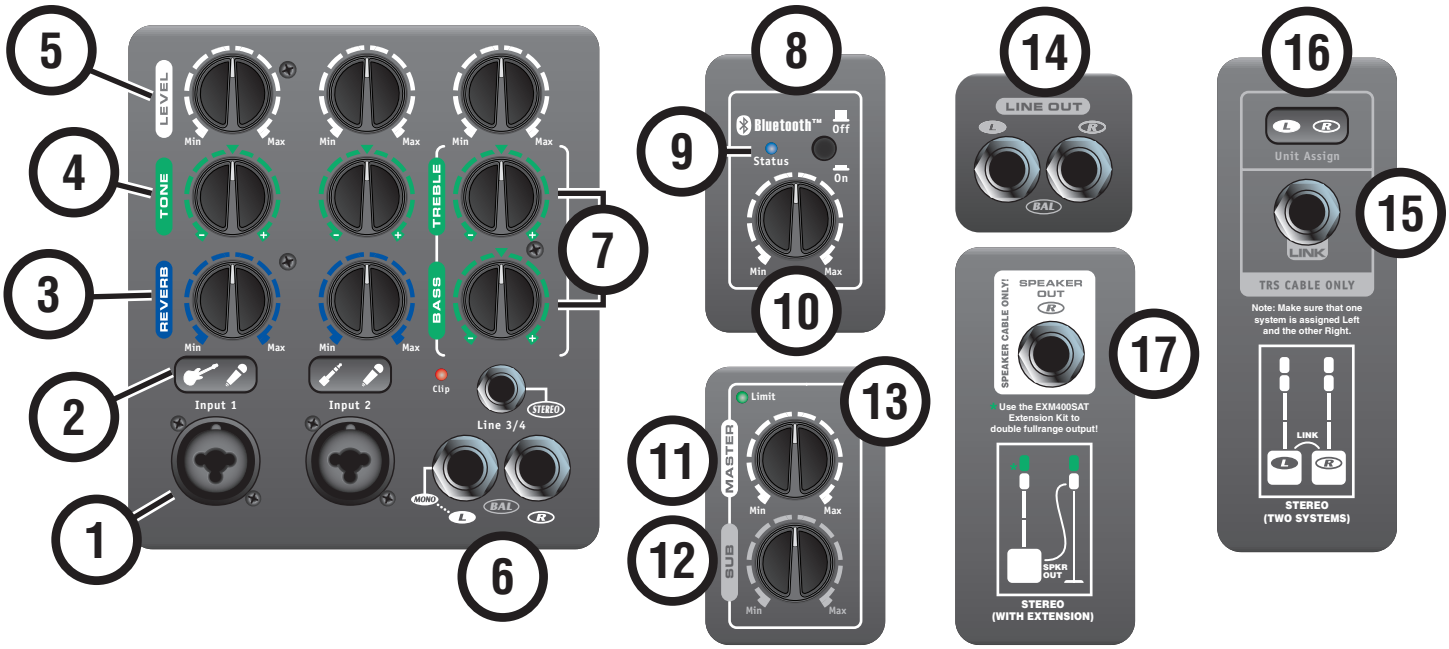
EXM 400 Guide de Démarrage Rapide



1. C. 1 & 2 Entrées - Prises Phone/XLR équilibrées combi. Alimentation fantôme de 24V fournie aux prises XLR.

2. C. 1 & 2 Sélecteur d'Entrées - Configure l'entrée 1 pour guitare ou micro. Sur le canal 2, il configure l'entrée pour une source de niveau ligne ou microphone.

3. C. 1 & 2 Réverbération - Un «hall reverb» est disponible sur les canaux 1 et 2.

4. C. 1 & 2 Commandes de Tonalité - Tourner vers la droite augmente les aigus et réduit les basses. Tourner vers la gauche augmente les basses et réduit les aigus.

5. Commandes de Niveau - Utiliser ces commandes pour ajuster le niveau des canaux dans le mélange général.

6. C. 3/4 Entrées - Les prises phone PBM et la prise stéréo 1/8 de pouce sur le canal 3/4 sont destinés aux signaux de niveau ligne.

7. Commandes de Tonalité - Le canal 3/4 est équipé de commandes de tonalité aigus et graves.

8. Pairage Bluetooth™ - Avec le bouton «Enable» enfoncé, accédez au menu Bluetooth™ sur votre appareil audio. Vous verrez un appareil nommé «YS-####.» Sélectionnez cet appareil pour débuter le pairage. Lorsque vous verrez que l'appareil YS-#### est connectée, vous pourrez transmettre sans fil, le signal audio à la EXM400.

9. Statut Bluetooth™ - Un témoin clignotant rapide indique une connexion disponible, non appariée. Les groupes de trois courtes rafales signifient qu'il y a une connexion active. Aucune lumière, signifie que Bluetooth™ est désactivé ou que la connexion a été perdue.

10. Niveau Bluetooth™ - Ce contrôle permet de définir le niveau audio pour la connexion Bluetooth™.

11. Commande Principale - Utilisez la Commande Principale pour définir le niveau global de volume de la EXM400.

12. Commande Sub - La commande Sub permet d'ajuster le niveau relatif du subwoofer aux haut-parleurs satellites.

13. Indicateur De Limite - L'indicateur de limite clignote en rouge lorsque le limiteur interne commence à s'engager.

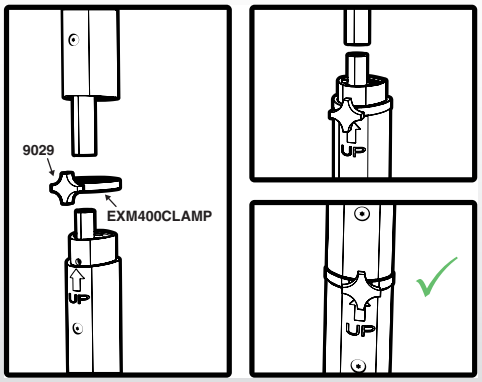
14. Prises De Sortie Ligne - Ces prises assurent la sortie stéréo niveau ligne des canaux d'entrée et connexion Bluetooth™.

15. Prise Link - Utilisé pour relier deux EXM400.

16. Bouton Unit Assign - Lorsque vous liez une paire de systèmes EXM400, chaque unité doit être attribuée à gauche ou à droite.

17. Prise de Sortie pour Haut-Parleur - Pour le raccordement des enceintes satellites. Commute la sortie de mono à stéréo.

18. Adaptateur de Pied de Micro - Un adaptateur est fourni (non illustré) pour monter des haut-parleurs satellites sur un pied de microphone standard.



Mécanisme de verrouillage de poteau d'enceinte EXM 400

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