



Service Manual

PRX818XLF

18" Self-Powered Extended Low Frequency Subwoofer System with Wi-Fi





Table of Contents

Datasheets and Specifications

Exploded View Diagrams

Board Layouts

Schematics

Bill of Materials



Features:

- ▶ Maximum SPL Output 134 dB Peak
- ▶ 18" Differential Drive® low-frequency driver for low-distortion and higher SPL
- ▶ 1500W highly efficient Class-D amplifier
- ▶ Wireless remote control of its onboard DSP EQ parameters via Wi-Fi. Control and configure your show from anywhere.
- ▶ DSP input limiter circuit, crossover, dynamic limiting, and component optimization
- ▶ Professional XLR-1/4" combination inputs and XLR loop-through
- ▶ Top panel M20 pole mount socket for sub/satellite configuration
- ▶ Injection molded handles with comfort rubber grips for easy transport
- ▶ Lightweight poplar plywood cabinets made structurally sound with tongue and groove joints and protected by JBL's tour proven DuraFlex™ finish



Application:

- ▶ The PRX815XLF extended low frequency subwoofer was designed and engineered to provide sub bass frequencies with accuracy and power. Used as a single sub in a sub/ sat system or in multiples as part of a scalable, large format sound reinforcement system, the PRX815XLF performs with exceptional efficiency and control. The subs are stackable and light-weight, ensuring quick set-ups and tear-downs. Due to their rugged construction, they are perfect for AV rental inventories. With the integrated stereo pass-thru this is the most powerful low-frequency complement to the PRX full-range systems. The addition of a polarity reverse option further enables system optimization. PRX800 subwoofers feature a standard M20 threaded pole cup that can accept most modern subwoofer-mounted speaker poles.
- ▶ The PRX818XLF is a high performance self-powered subwoofer system with remote Wi-Fi control of onboard DSP EQ parameters. The PRX818XLF is comprised of a powerful 2278G Differential Drive® dual voice-coil and magnetic gap, woofer driven by a 1500 Watt Class-D power amplifier. Sophisticated DSP is at the core of a fully featured input section, providing user selectable cross-over functionality, polarity optimization, protection, dynamic limiting and discrete component optimization.
- ▶ All PRX800 cabinets are built from 18 mm, strong, light-weight poplar plywood made structurally sound with tongue and groove joints. All PRX800 Series cabinets are protected by JBL's tour proven DuraFlex™ finish. Grilles are made from dent-resistant 16 gauge steel and handles are made from light-weight glass-filled nylon for added strength and durability. All M10 suspension points are constructed from 14 gauge steel and have been tested with a yield-strength of 1000 lbs. Each
- ▶ The amplifier input panel offers stereo inputs with XLR or 1/4 inch jack compatibility. A user selectable crossover ensures a smooth transition to full-range system connected to the stereo outputs. Signal present and limiter lights indicate the system status and assist in setting the optimum level via the level control knob.

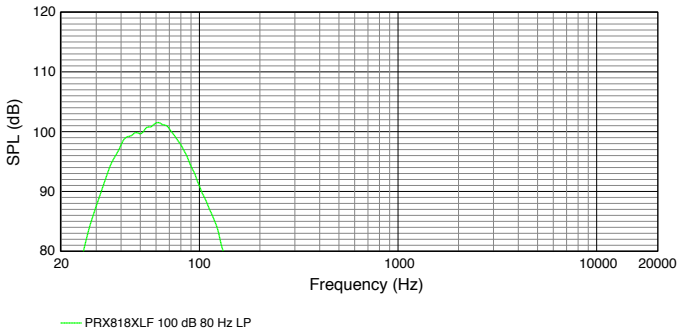
Specifications:

| | |
|-------------------------------|--|
| System: | |
| System Type: | Self Powered 18", subwoofer |
| Maximum SPL Output: | 134 dB peak |
| Frequency Range (-10 dB): | 30 Hz - 103 kHz |
| Frequency Response (±3 dB): | 35 Hz - 87 kHz |
| Input Connectors: | 2 x Balanced femaleXLR / 1/4 combo connec |
| Input Impedance: | 20K Ohms (balanced) |
| Signal Indicators: | Limit: Yellow LED indicates peak output has been reached and DSP limiter is acting Signal: Green LED indicates signal present Power: Blue indicates system has power and ready to pass audio Power Save: Red indicates system has power but is in a power-saving mode and will not pass audio |
| Dynamic Control (Input): | dbx Type IV™ limiter circuit |
| System Low Pass:: | 80 Hz DSP |
| Loop out Crossover Frequency: | 80Hz Digital 24db/octave Linkwitz-Riley Filter |
| Amplifier: | |
| Design: | Highly efficient Class-D amplifier |
| Power Rating: | 1500W |
| AC Power Input: | 100V - 240V ~ 50/60 Hz |
| Speaker: | |
| LF Driver: | 1 x JBL 2278G 460 mm (18 in) woofer |
| Enclosure: | Rectangular, 18 mm, birch-poplar mix |
| Transport: | 2 x injection molded handle with backing cup |
| Finish: | Obsidian DuraFlex™ finish |
| Grille: | Powder coated, Obsidian, 16 gauge perforated steel with acoustically transparent black cloth backing. |
| Dimensions (H x W x D): | 692 mm x 523 mm x 724 mm (27.26 in x 20.6 in x 28.5 in) |
| Net Weight: | 36.28kg (80 lb) |
| Gross Weight: | 45.0 kg (100.0 lb) |

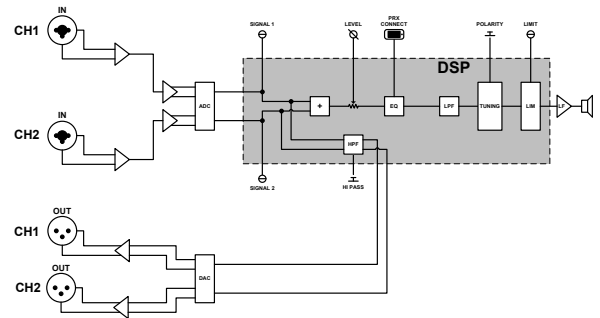
JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.

► PRX818XLF 18" Self-Powered Extended Low Frequency Subwoofer System

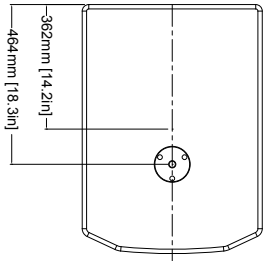
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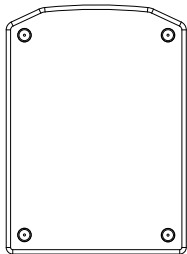
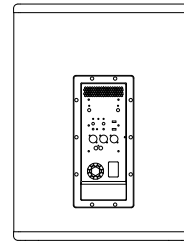
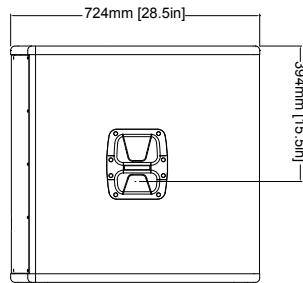
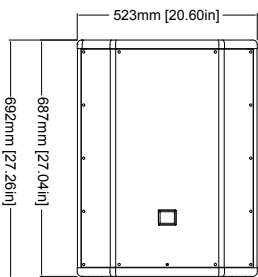
Block Diagram:



Dimensions:



mm [in]



Dimensions in mm (in)



JBL Professional
8500 Balboa Boulevard, P.O. Box 2200
Northridge, California 91329 U.S.A.

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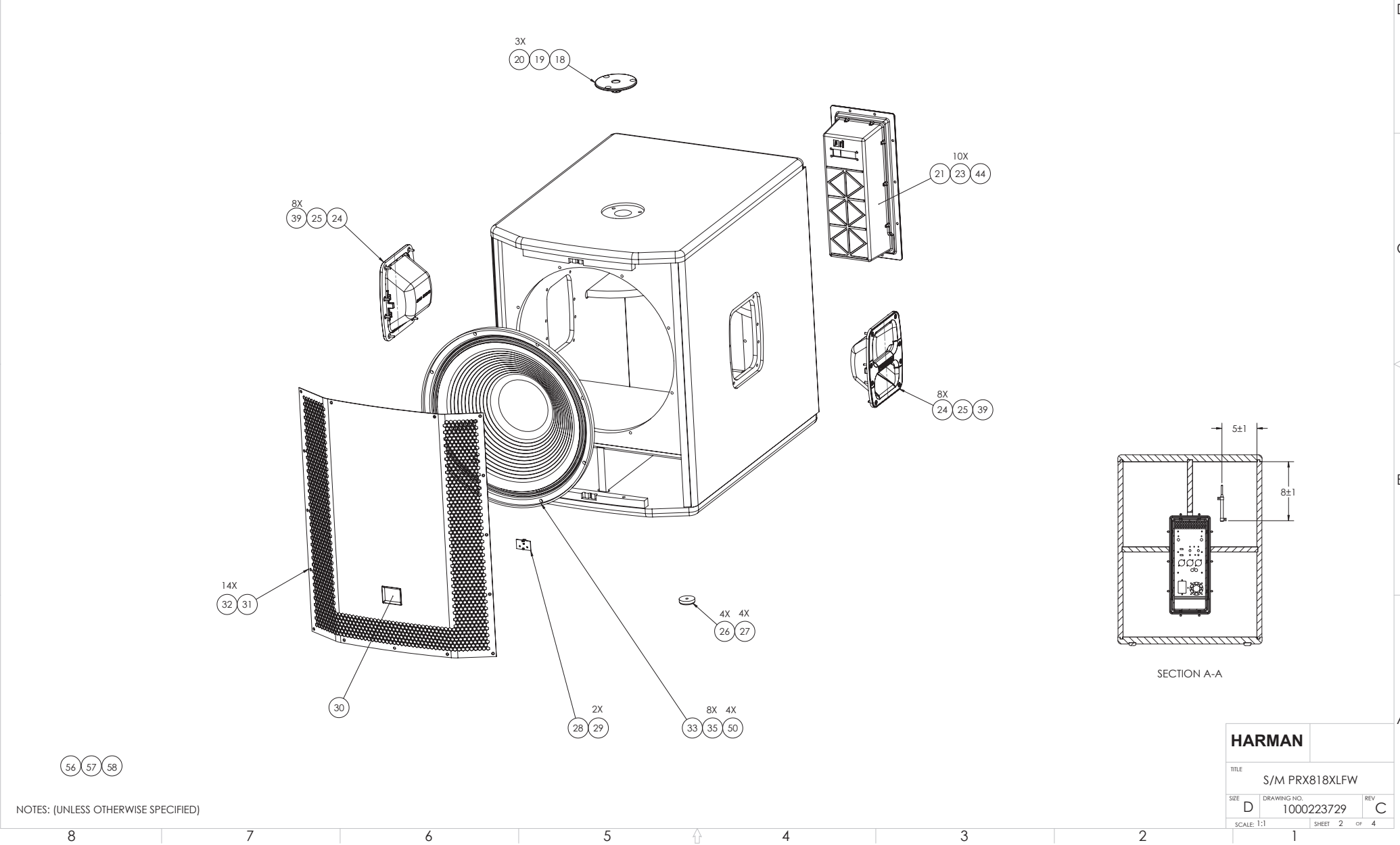
PN: 5075807
SS PRX818XLF
CRP
06/17

Exploded View Diagram

8 7 6 5 4 3 2 1

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| CHG | | LTR | | REVISIONS | | | DRFT | CHK | DATE | APPR |
|-----|--|-----|--|-------------|--|--|------|-----|------|------|
| | | | | DESCRIPTION | | | | | | |
| | | | | SEE SHEET 1 | | | | | | |



| | | |
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| TITLE | | |
| S/M PRX818XLFW | | |
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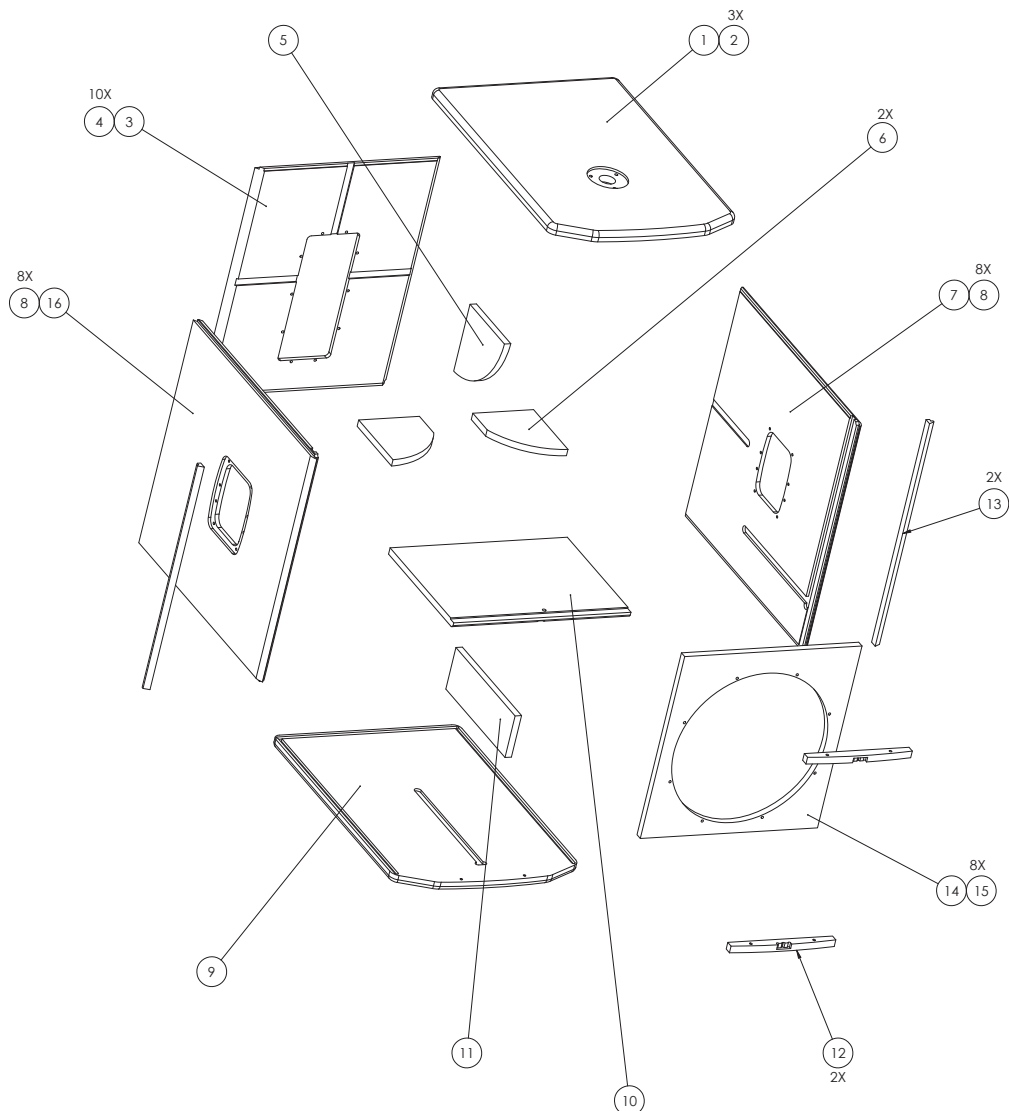
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| | | | | DESCRIPTION | | | | | | |
| | | | | SEE SHEET 1 | | | | | | |



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- 41
- 42
- 43
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- 51
- 52
- 53

NOTES: (UNLESS OTHERWISE SPECIFIED)

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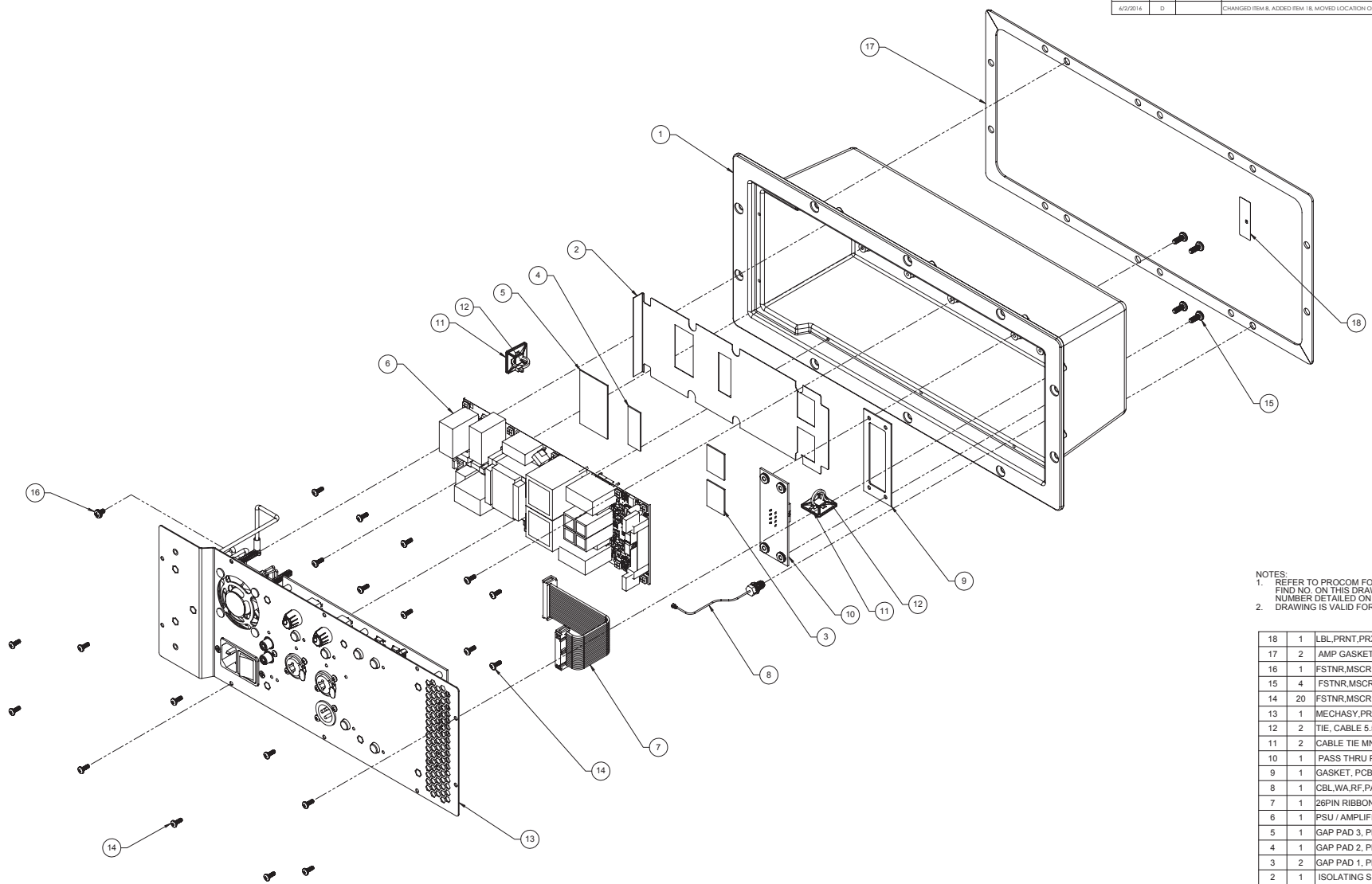
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| D | 1000223729 | C | |
| SCALE: 1:1 | | SHEET 3 OF 4 | |

| REVISION HISTORY | | | | | |
|------------------|------|-------------------|--|------|-----|
| DATE | REV. | PREVIOUS PART NO. | DESCRIPTION | ZONE | BY |
| 12/11/2013 | A | | INITIAL RELEASE | | RWS |
| 2/24/2014 | B | | F1 CHANGES | | RWS |
| 3/17/2014 | C | | ADDED 4-32 SEMS, CABLE TIE, CABLE TIE MOUNT. | | RWS |
| 4/2/2014 | D | | CHANGED ITEM 8, ADDED ITEM 18, MOVED LOCATION OF ITEM 11 | | RWS |

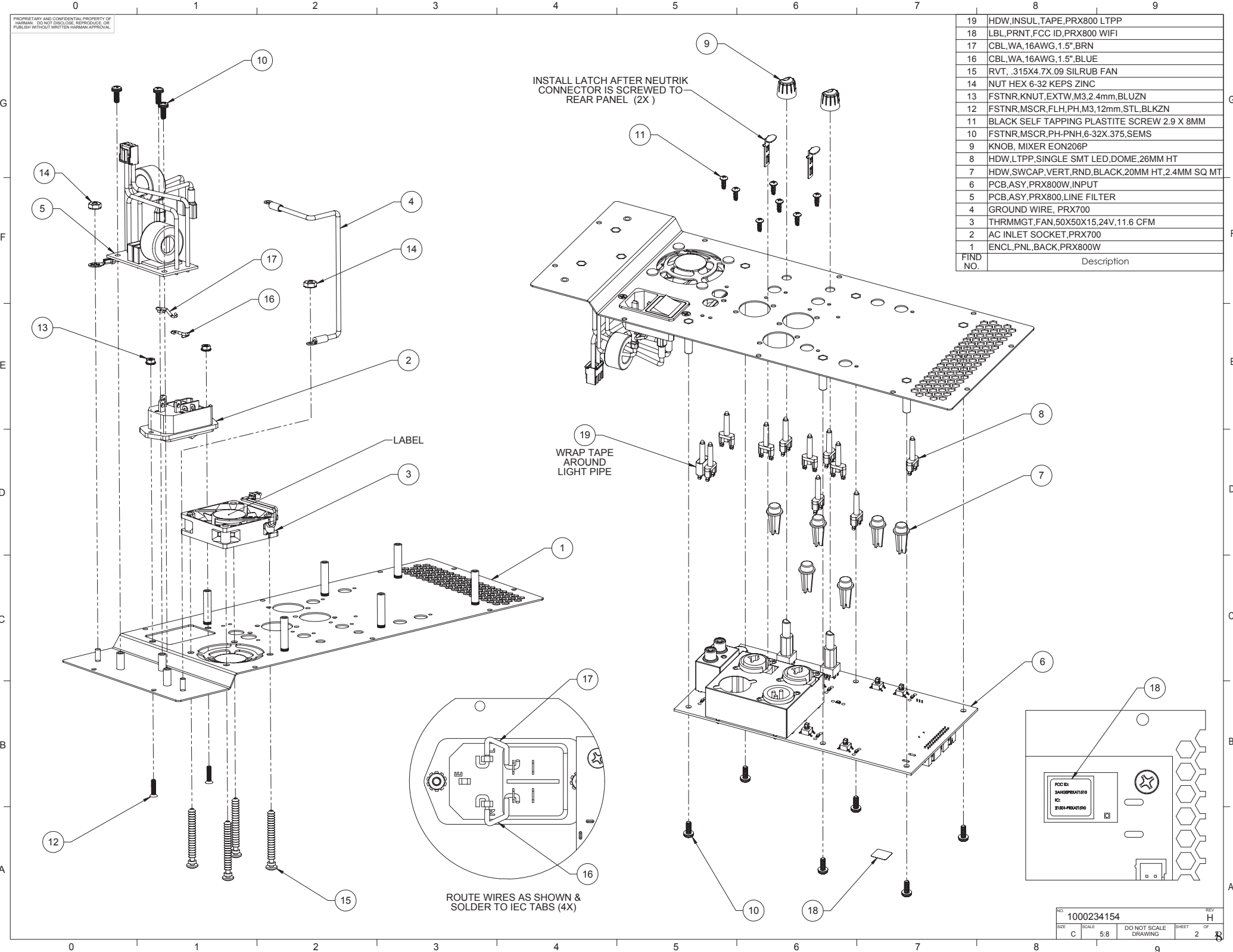


NOTES:
1. REFER TO PROCOM FOR COMPONENT PART NUMBERS. FIND NO. ON THIS DRAWING CORRESPONDS TO THE FIND NUMBER DETAILED ON THE PROCOM BILL OF MATERIALS.
2. DRAWING IS VALID FOR 5069108, 50669109, & 5071129.

| | | |
|----|----|--|
| 18 | 1 | LBL_PRNT_PRX800_SIN |
| 17 | 2 | AMP GASKET, PRX700 |
| 16 | 1 | FSTNR,MSCR,PH-PNH,6-32x1/4,EX SEMS,Zn |
| 15 | 4 | FSTNR,MSCR,PH-PNH,M4,SPR,WSHR,10mm,BLUZn |
| 14 | 20 | FSTNR,MSCR,PH-PNH,M3,8mm,BLKZn |
| 13 | 1 | MECHASY_PRX800W_REAR_PNL |
| 12 | 2 | TIE, CABLE 5.5" OR MORE 18 LB |
| 11 | 2 | CABLE TIE MNT W/ADHESIVE BL 0.75" SQ BIN |
| 10 | 1 | PASS THRU PCB ASSEMBLY - 2 WAY, PRX700 |
| 9 | 1 | GASKET, PCB PASS THROUGH |
| 8 | 1 | CBL_WA_RF_PAS,200mm,50ohm,RP-SMA,MHF |
| 7 | 1 | 26PIN RIBBON CABLE, PRX700 |
| 6 | 1 | PSU / AMPLIFIER BOARD ASSEMBLY, PRX700 |
| 5 | 1 | GAP PAD 3, PRX700 |
| 4 | 1 | GAP PAD 2, PRX700 |
| 3 | 2 | GAP PAD 1, PRX700 |
| 2 | 1 | ISOLATING SHEET, PRX700 |
| 1 | 1 | ENCL_CHAS_PRX800W_EM |

| | | | |
|--|---|--|--|
| <p>ROHS</p> <p>RESTRICTION OF HAZARDOUS SUBSTANCES</p> <p>ALL HARMAN MANUFACTURED PRODUCTS SHALL BE COMPLIANT WITH THE ROHS COMPLIANCE REQUIREMENTS OF THE EU DIRECTIVE 2002/95/EC AND ITS AMENDMENTS.</p> | <p>TOLERANCES UNLESS OTHERWISE SPECIFIED:</p> <p>All Dimensions in MM</p> <p>FRAMES: ±0.15</p> <p>OTHER: ±0.25</p> | <p>THIS DRAWING IS UNLESS OTHERWISE SPECIFIED:</p> <p>DATE: 12/11/2013</p> <p>REVISED: 8/2/2015</p> <p>SCALE: 1000235451</p> <p>DO NOT SCALE DRAWING</p> | <p>HARMAN</p> <p>MECHASY_PRX800W_AMP</p> <p>1000235451</p> <p>SCALE: 5/8</p> <p>DO NOT SCALE DRAWING</p> <p>1 2</p> |
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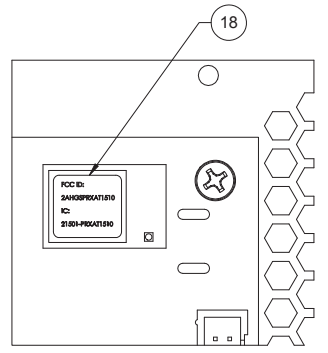


INSTALL LATCH AFTER NEUTRIK CONNECTOR IS SCREWED TO REAR PANEL (2X)

WRAP TAPE AROUND LIGHT PIPE

ROUTE WIRES AS SHOWN & SOLDER TO IEC TABS (4X)

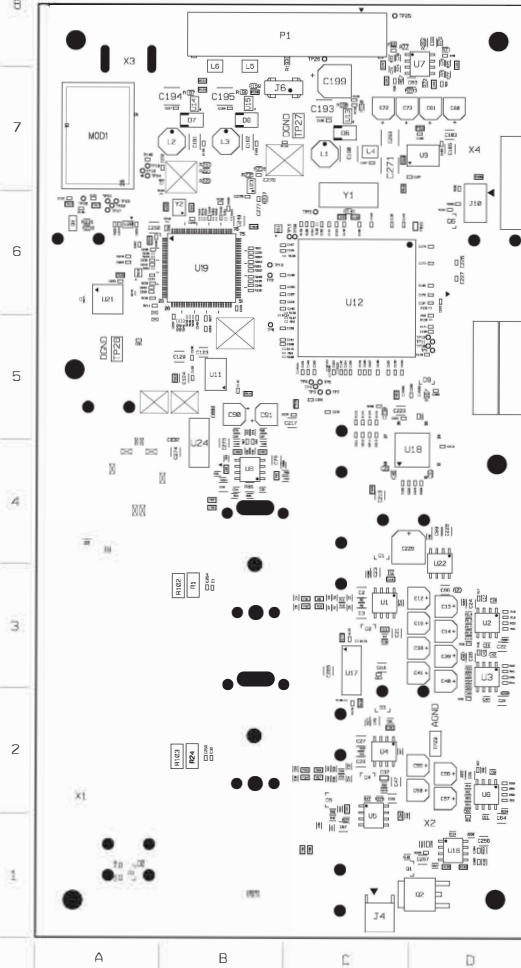
| FIND NO. | Description |
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| 19 | HDW,INSUL,TAPE,PRX800 LTPP |
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| 17 | CBL,WA,16AWG,1.5" BRN |
| 16 | CBL,WA,16AWG,1.5" BLUE |
| 15 | RVT, .315X4.7X.09 SILRUB FAN |
| 14 | NUT HEX 6-32 KEPS ZINC |
| 13 | FSTNR,KNUT,EXTW,M3,2.4mm,BLUZN |
| 12 | FSTNR,MSCR,FLH,PH,M3,12mm,STL,BLKZN |
| 11 | BLACK SELF TAPPING PLASTITE SCREW 2.9 X 8MM |
| 10 | FSTNR,MSCR,PH-PNH,6-32X.375,SEMS |
| 9 | KNOB, MIXER EON206P |
| 8 | HDW,LTPP,SINGLE SMT LED,DOME,26MM HT |
| 7 | HDW,SWCAP,VERT,RND,BLACK,20MM HT,2.4MM SQ MT |
| 6 | PCB,ASY,PRX800W,INPUT |
| 5 | PCB,ASY,PRX800,LINE FILTER |
| 4 | GROUND WIRE, PRX700 |
| 3 | THRMMGT,FAN,50X50X15,24V,11.6 CFM |
| 2 | AC INLET SOCKET,PRX700 |
| 1 | ENCL,PNL,BACK,PRX800W |



COMPONENT MAP

TOPSIDE
SCALE: 2:1

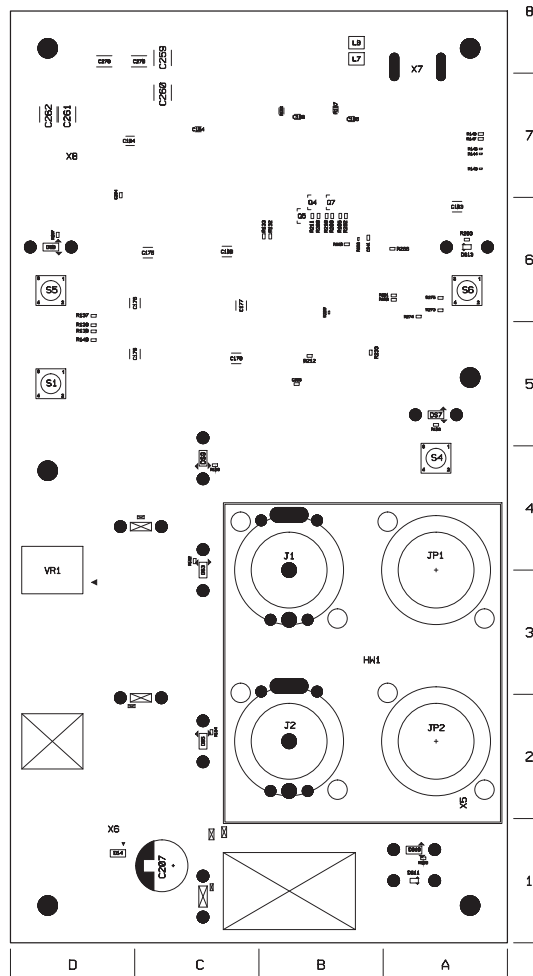
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| 05-31-18 | B | SEE 5065760-03_B.XLS FOR COMPONENT DATA AND REVISION HISTORY. | | TLM |
| 06-10-18 | C | SEE 5065760-03_C.XLS FOR COMPONENT DATA AND REVISION HISTORY. | | TLM |



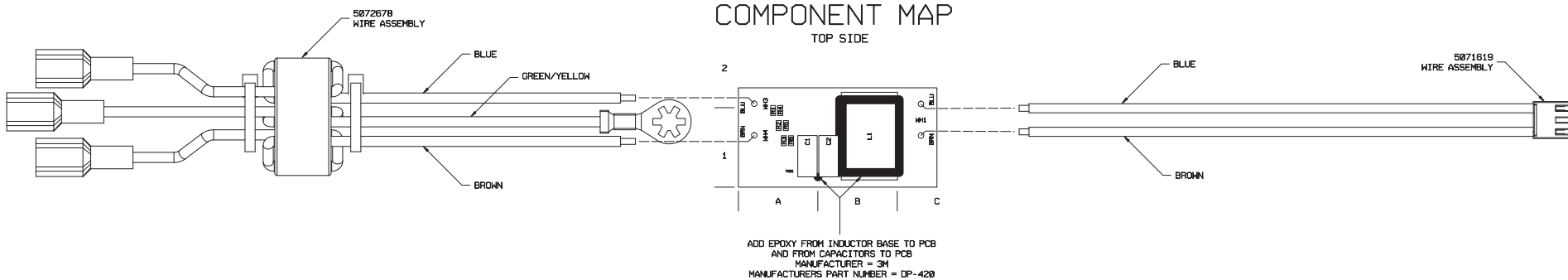
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| ROHS | | HARMAN | |
| <small> TOLERANCES UNLESS OTHERWISE SPECIFIED: FINISHED DIMS: 0.005 (0.125) UNFINISHED DIMS: 0.010 (0.254) DIA: 0.010 (0.254) HOLE: 0.010 (0.254) HOLE: 0.010 (0.254) </small> | | <small> TITLE: PCB,ASY,PRX800W_INPUT_FULL_AV1 </small> | |
| <small> ALL DIMENSIONS ARE IN INCHES (MM) ALL DIMENSIONS APPLY UNLESS NOTED </small> | | <small> DRAWN BY: MCKINSEY, TLM </small> | <small> DATE: 03-20-18 </small> |
| <small> ALL DIMENSIONS ARE IN INCHES (MM) ALL DIMENSIONS APPLY UNLESS NOTED </small> | | <small> DESIGNED BY: MCKINSEY, TLM </small> | <small> DATE: 03-20-18 </small> |
| <small> ALL DIMENSIONS ARE IN INCHES (MM) ALL DIMENSIONS APPLY UNLESS NOTED </small> | | <small> CHECKED BY: MCKINSEY, TLM </small> | <small> DATE: 03-20-18 </small> |
| <small> ALL DIMENSIONS ARE IN INCHES (MM) ALL DIMENSIONS APPLY UNLESS NOTED </small> | | <small> APPROVED BY: MCKINSEY, TLM </small> | <small> DATE: 03-20-18 </small> |
| <small> ALL DIMENSIONS ARE IN INCHES (MM) ALL DIMENSIONS APPLY UNLESS NOTED </small> | | <small> SCALE: 1:1 </small> | <small> SHEET: 1 OF 9 </small> |

COMPONENT MAP

BOTTOMSIDE
SCALE: 2:1



| | | |
|----------|-----------------|-------------------------|
| REV. NO. | 5065768-03 | REV. C |
| DATE | REV. NO. / REV. | |
| SCALE | 5:1 | DO NOT SCALE DIMENSIONS |
| | | SHEET 2 OF 4 |



| | | | | | |
|--|--|--|--|------------------------------------|--|
| <p>ROHS RESTRICTION OF HAZARDOUS SUBSTANCES ALL MATERIALS USED IN THIS PART MUST BE ROHS COMPLIANT. SUPPLIER SHALL PROVIDE A CERTIFICATE OF ROHS COMPLIANCE WITH THE FIRST ARTICLE.</p> | | <p>TOLERANCES UNLESS OTHERWISE SPECIFIED FINISHED DRILL: ± 0.003 (0.0762) REGISTRATION: ± 0.002 (0.0762) MINIMUM ANNULAR RING: ± 0.002 (0.0508) .XX = ± 0.01 (0.254) .XXX = ± 0.005 (0.127)</p> | | <p>HARMAN</p> | |
| <p>ALL DIMENSIONS ARE IN INCHES (MM) ALL DIMENSIONS APPLY AFTER FINISH</p> | | <p>TITLE PCB, ASY, PRX_8xx_LINE_FILTER_AV1</p> | | <p>ASSEMBLY NO. 5071362-02</p> | |
| <p>DRAWN BY WALTER, KEN</p> | | <p>DATE 03-11-16</p> | | <p>REV B</p> | |
| <p>DESIGNED BY</p> | | <p>DATE</p> | | <p>SIZE C</p> | |
| <p>ENGINEER BIRD, ERNIE</p> | | <p>DATE 03-11-16</p> | | <p>SCALE 1:1</p> | |
| <p>DO NOT SCALE DRAWING</p> | | | | <p>SHEET 1 OF 21</p> | |

| | |
|---|-----------------------------|
| 1 | Component Map - Top Side |
| 2 | Component Map - Bottom Side |
| 3 | Title Page |
| 4 | INPUT |
| 5 | OUTPUT |
| 6 | SHARC |
| 7 | LED/SWITCHES |
| 8 | MICRO/WIFI |
| 9 | PWR SUPPLY/CONNECTORS/FAN |

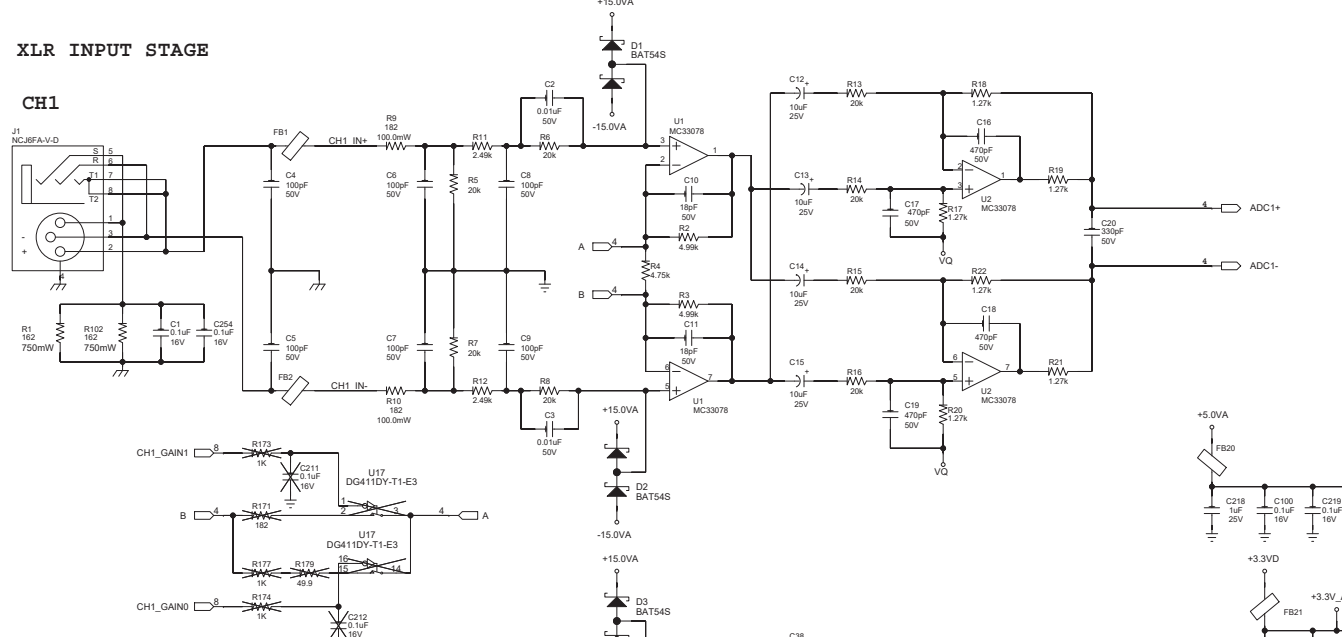
NOTE:
UNLESS OTHERWISE SPECIFIED:
1. ALL RESISTORS ARE IN OHMS, 1% AND 0.063W
2. ALL CAPACITORS ARE IN MICROFARADS

TITLE PAGE

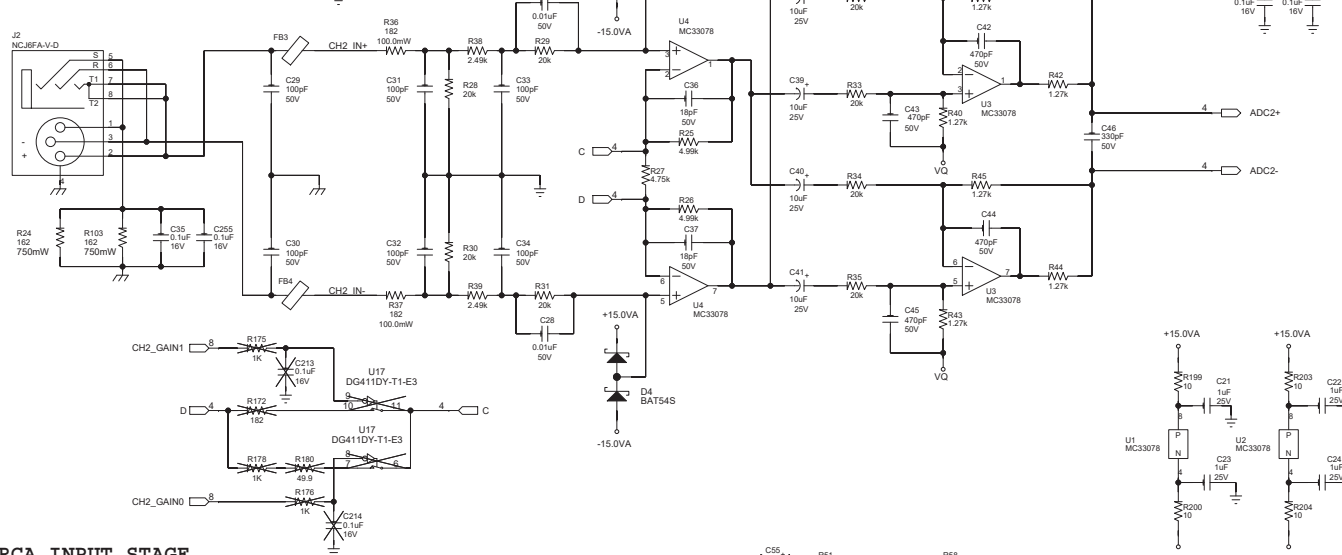
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| SCALE: | 5065768-03 | 5065759-02 | 3 of 9 |

XLR INPUT STAGE

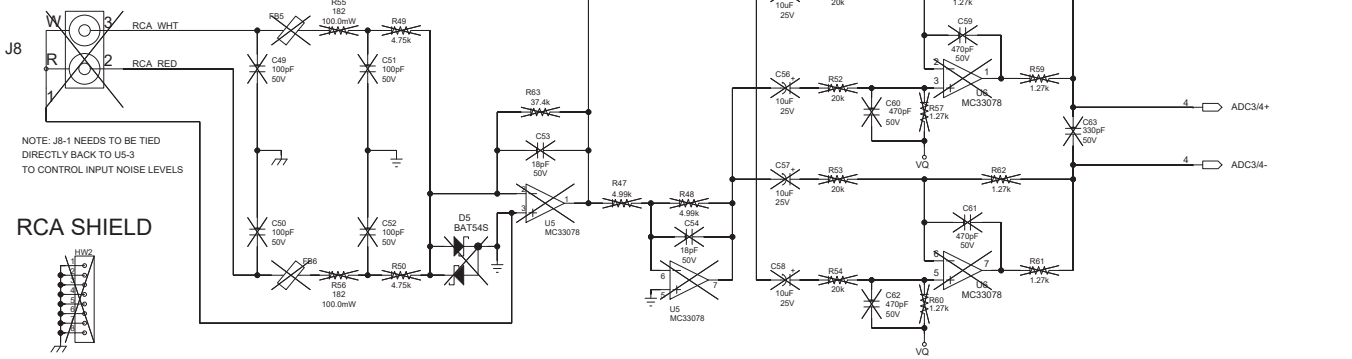
CH1



CH2

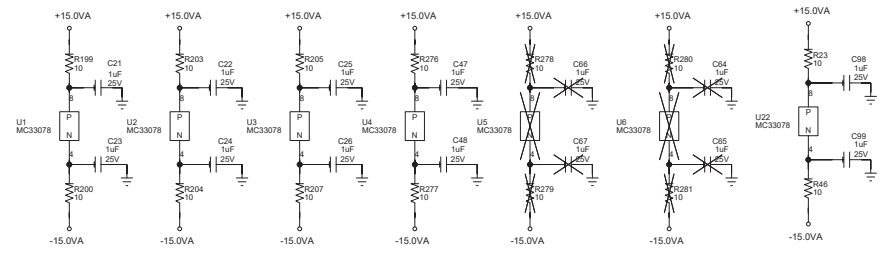
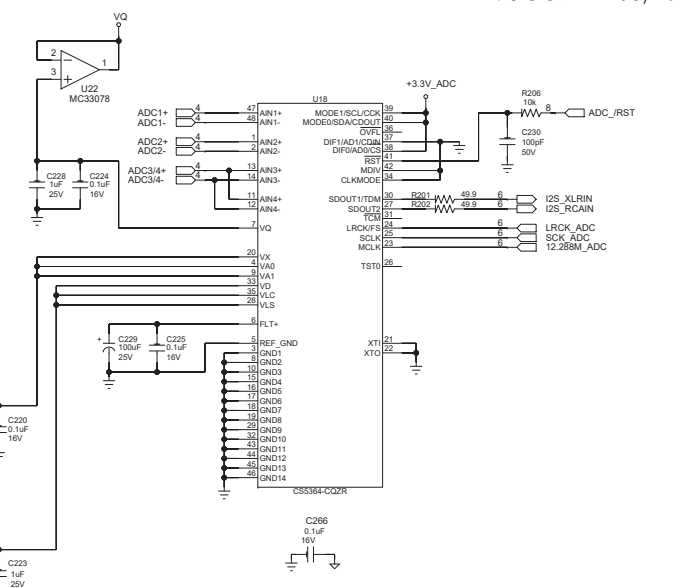
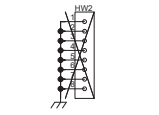


RCA INPUT STAGE



NOTE: J8-1 NEEDS TO BE TIED DIRECTLY BACK TO U5-3 TO CONTROL INPUT NOISE LEVELS

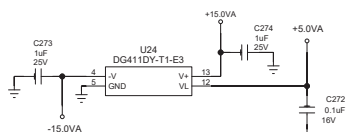
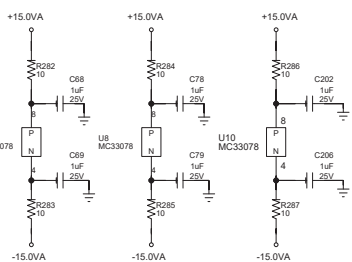
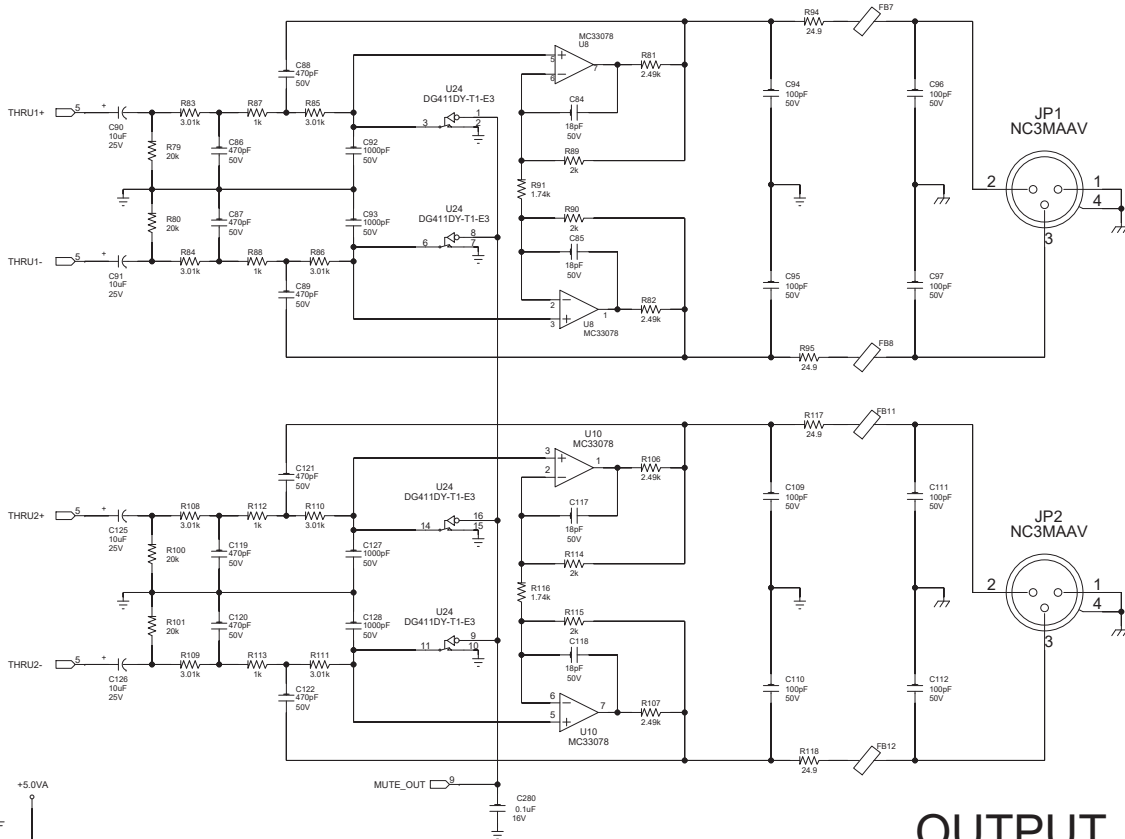
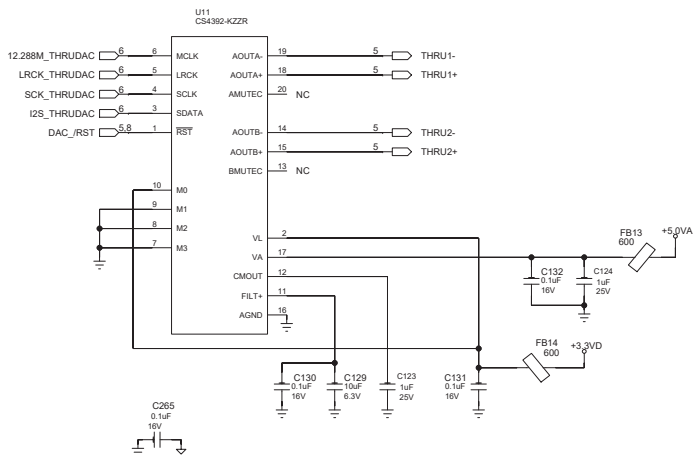
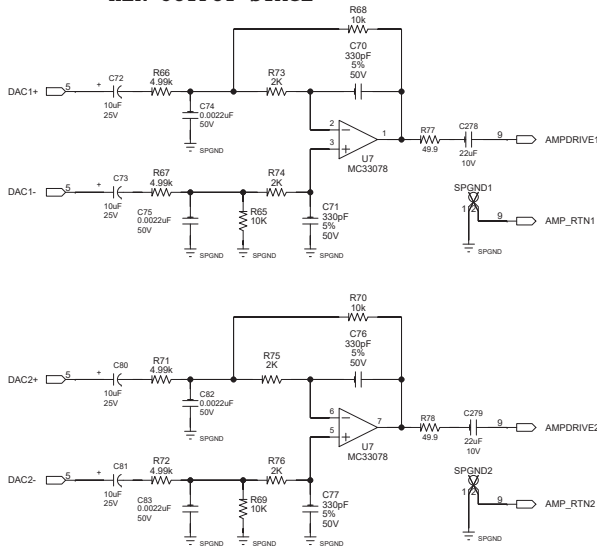
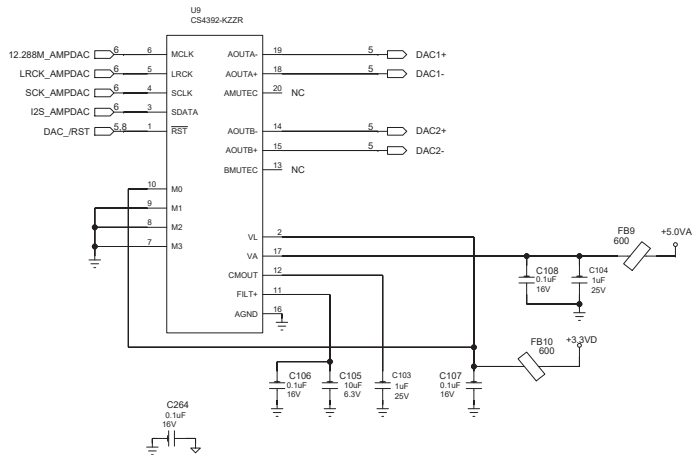
RCA SHIELD



INPUT

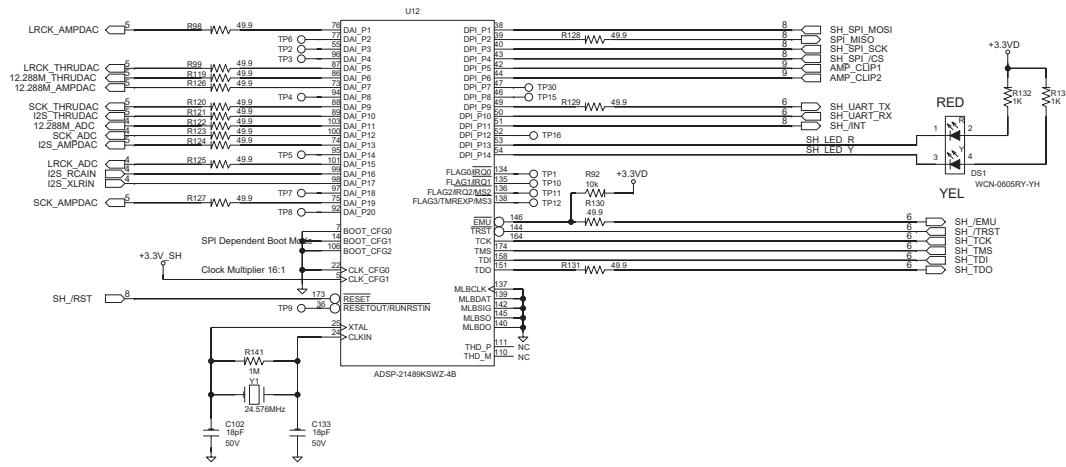
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XLR OUTPUT STAGE

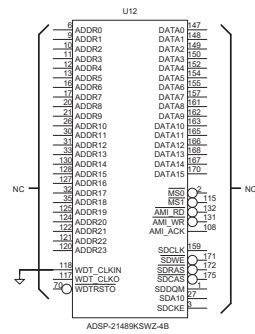
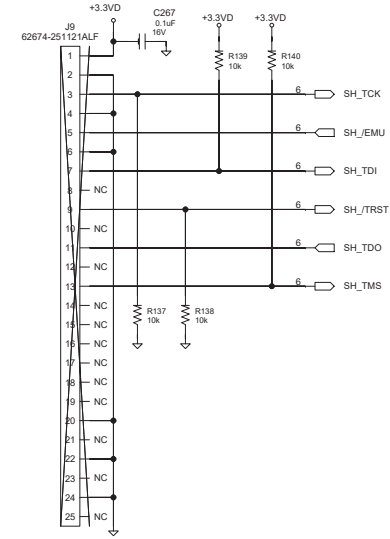


OUTPUT

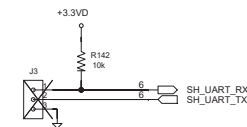
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| 5065768-03 | | 5065768-03 | |
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| 5065759-02 | | 5065759-02 | |
| 5 of 9 | | 14 | |



SHARC JTAG DEBUG



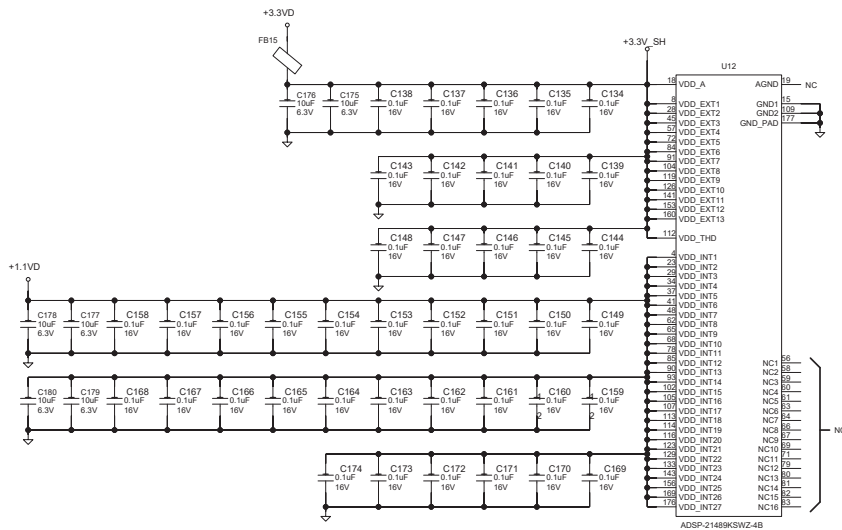
SHARC DEBUG HEADER



DGND

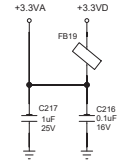
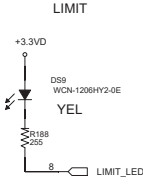
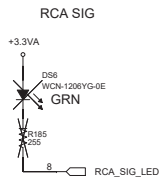
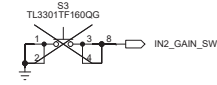
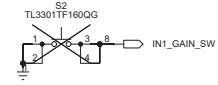
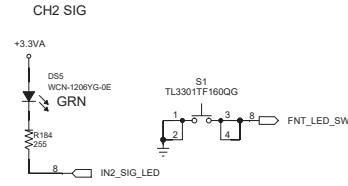
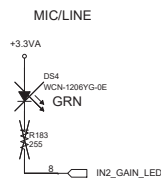
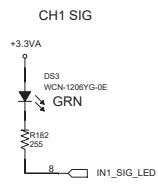
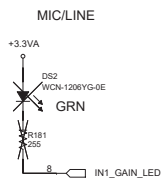


AGND

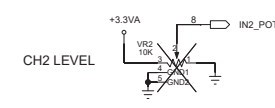
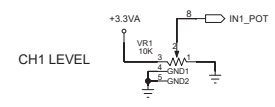
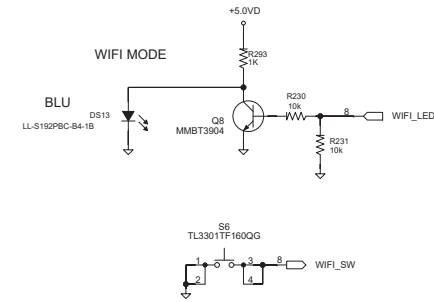
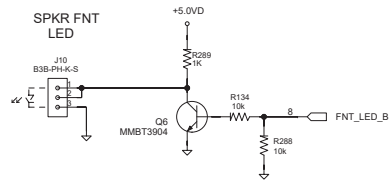
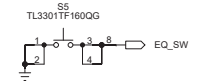
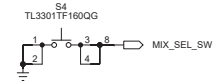
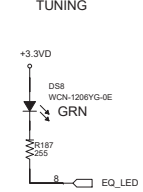
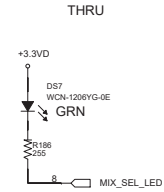
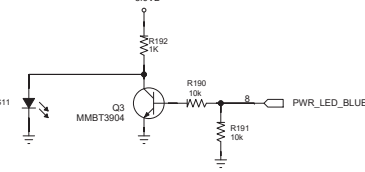
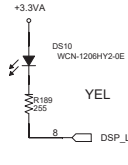


SHARC

| REVISION | | REVISION | |
|---------------------|---------------------|--------------------|-----------------|
| REV | DATE | REV | DATE |
| C | 09/06/2016:15:24 | | |
| PART NO. 5065768-03 | | REV C | |
| SCALE NONE | PART NO. 5065768-03 | REV NO. 5065759-02 | SHEET 6 of 9 15 |



CUSTOM EQ



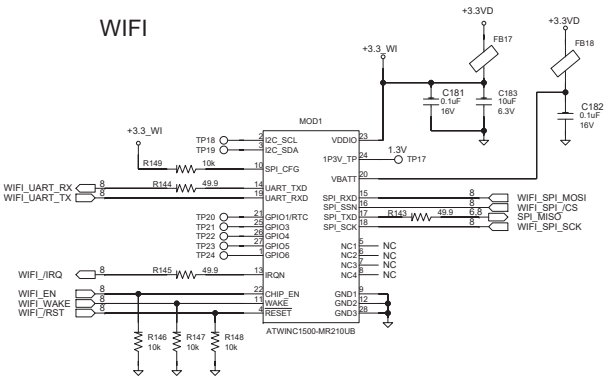
| THRU BUTTON/LED FUNCTION | | |
|--------------------------|----------|---------|
| MODEL | OFF | ON |
| 810, 812, 815 | STANDARD | 50/50 |
| 825, 835 | MIX | MIX |
| 815XLF, 818XLF | FLAT | HI-PASS |

| TUNING BUTTON/LED FUNCTION | | |
|----------------------------|--------------|----------|
| MODEL | OFF | ON |
| 810, 825, 835 | NORMAL | BOOST |
| 812, 815 | MAIN | MONITOR |
| 815XLF, 818XLF | NON-INVERTED | INVERTED |

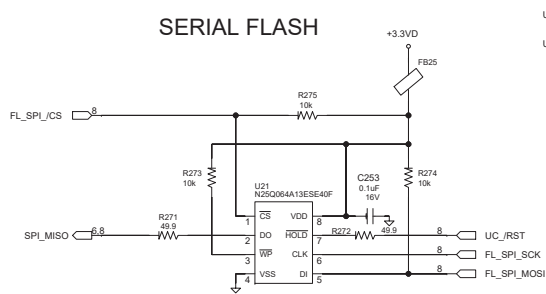
LED/SWITCHES

| SHEET NAME | | REVISION SYMBOL | |
|------------|--------------|------------------|-----------|
| ITEM | QCN PART NO. | 09/06/2016:15:26 | |
| C | 5065768-03 | | C |
| SCALE | REV PART NO. | PCW PART NO. | SHEET |
| NONE | 5065768-03 | 5065759-02 | 7 of 9 16 |

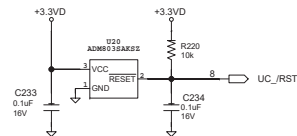
WIFI



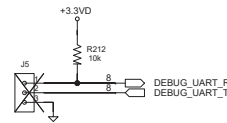
SERIAL FLASH



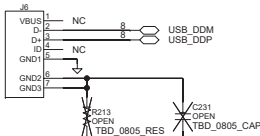
VOLT SUPP



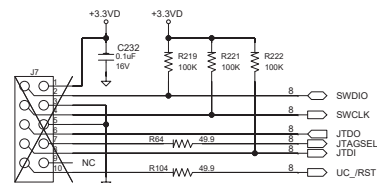
MICRO DEBUG



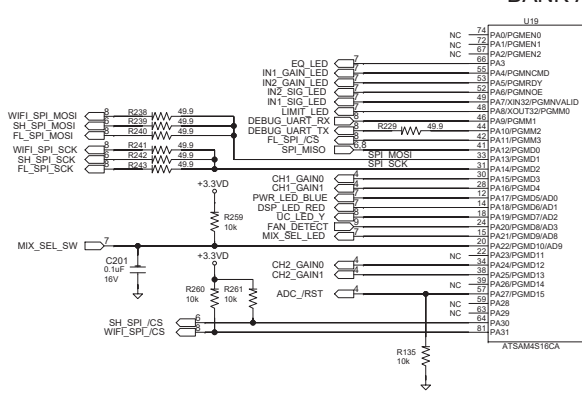
USB



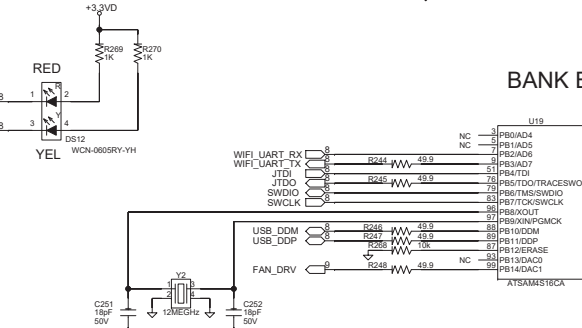
JTAG DEBUG



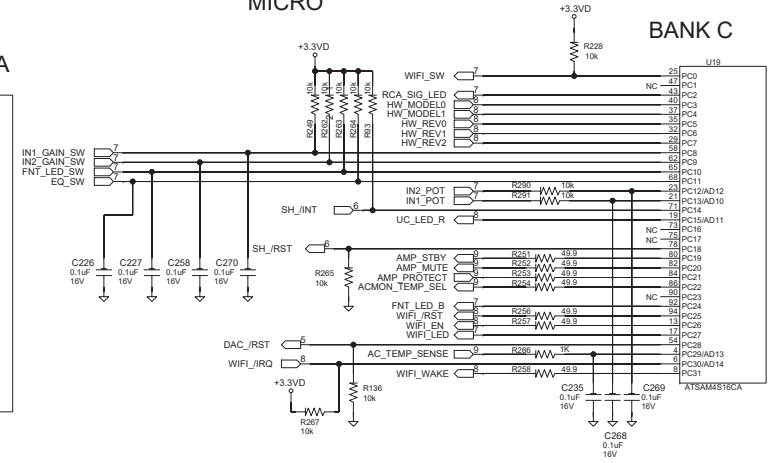
BANK A



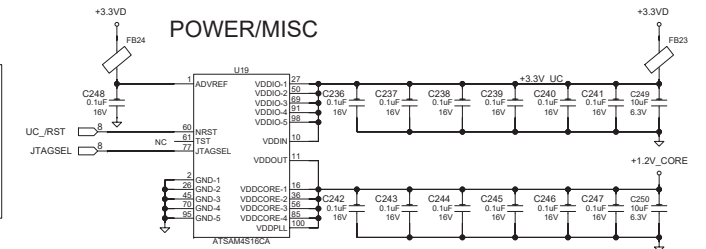
BANK B



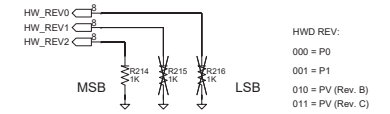
MICRO



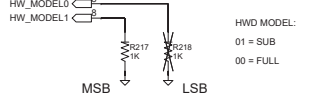
POWER/MISC



HARDWARE REVISION ID



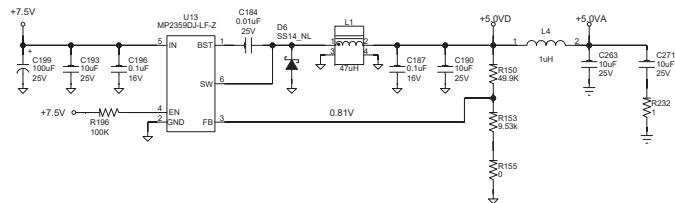
HARDWARE MODEL ID



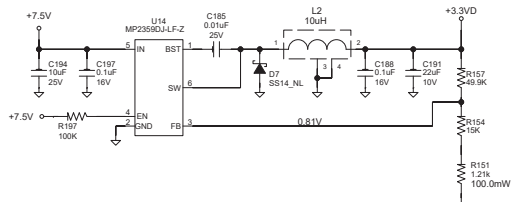
MICRO/WIFI

| REVISED PART NO. | | REVISION | |
|------------------|--------------|------------------|-----------|
| C | | 10/06/2016:10:31 | |
| 5065768-03 | | C | |
| SCALE | REV PART NO. | REV PART NO. | SHEET |
| NONE | 5065768-03 | 5065759-02 | 8 of 9 17 |

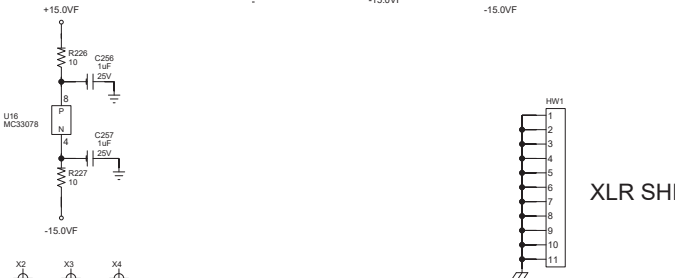
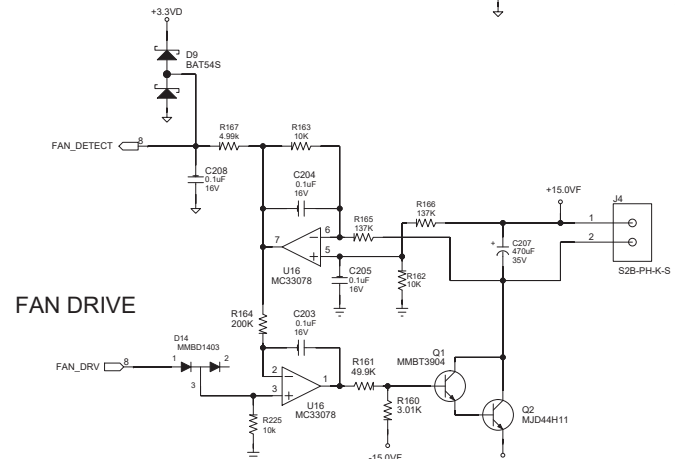
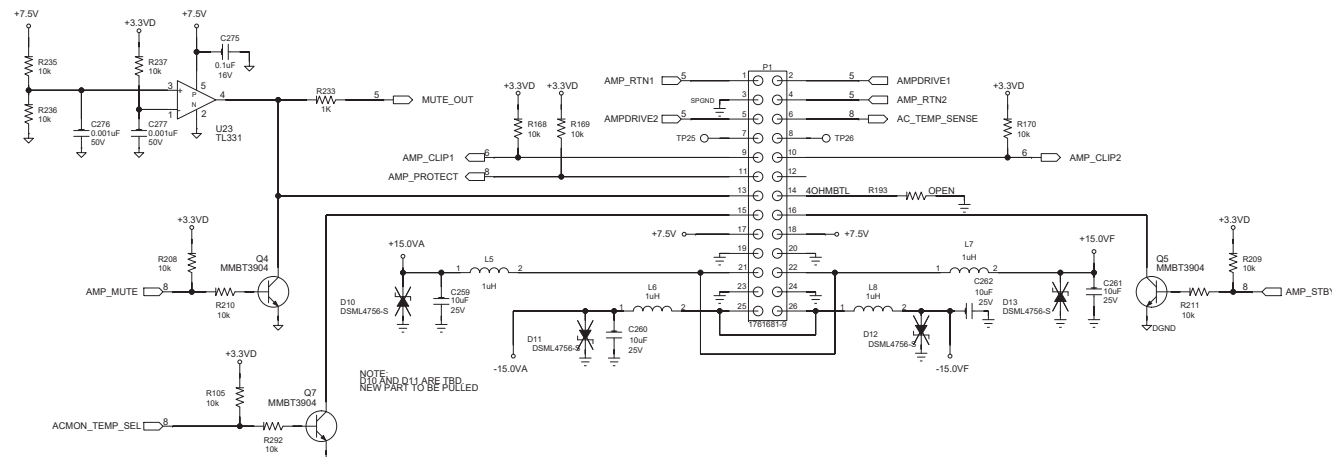
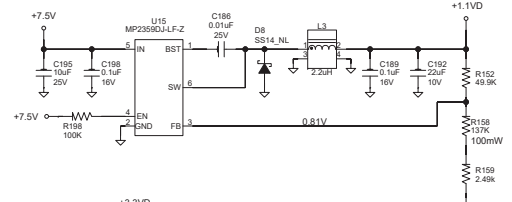
+5VD REGULATOR



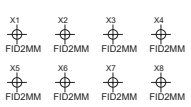
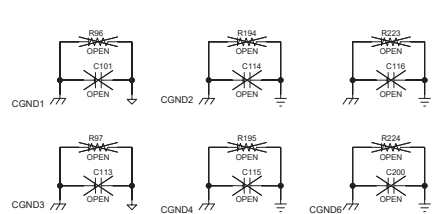
+3.3V REGULATOR



+1.1V REGULATOR



CHASSIS MOUNTING HOLES



MODEL ID RESISTOR
R156
1.21k

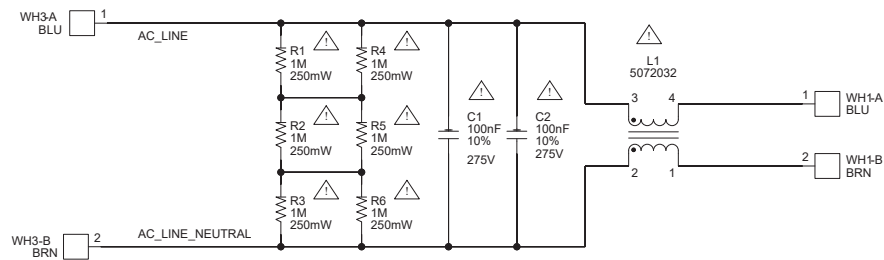
PWR SUPPLY/CONNECTORS/FAN

| REV# | REV# | REV# | REV# |
|------|------|------|------|
| 1 | 2 | 3 | 4 |

| REV# | REV# | REV# | REV# |
|------|------|------|------|
| 1 | 2 | 3 | 4 |

| REV# | REV# | REV# | REV# |
|------|------|------|------|
| 1 | 2 | 3 | 4 |

| REV# | REV# | REV# | REV# |
|------|------|------|------|
| 1 | 2 | 3 | 4 |



 **CRITICAL TO SAFETY COMPONENTS.
REPLACE WITH SAME COMPONENT ONLY!**

| | | | |
|------------|--------------|---------------------------------|------------------|
| PCB1 | 5071360-01 | PCB,RAW,PRX_8xx_LINE_FILTER,BDB | |
| SHEET NAME | | 1 | REVISE DDATE |
| | | | 25/05/2016:09:18 |
| SIZE | SCH PART NO. | REV | |
| C | | B | |
| | | 5071362-02 | |
| SCALE | ASY PART NO. | PCB PART NO. | SHEET |
| NONE | 5071362-02 | 5071360-01 | 2 OF 2 |

4

3

2

1

Refer to the corresponding Service Bill of Materials (SBOM) to order parts stocked by Harman.

| Bill of Materials - System | | |
|----------------------------|---|-----|
| Ref ID | Name | Qty |
| 1 | TOP PANEL, PRX818S | 1 |
| 2 | T-NUT, 1/4-20 X 5/16, 4 PRONG, CLR ZINC | 3 |
| 3 | PANEL, REAR, PRX818XLFW | 1 |
| 4 | T-NUT, 10-32, SPECIAL, PRO | 10 |
| 5 | STIFFENER, CENTER, PRX818XLF | 1 |
| 6 | STIFFENER, PRX818XLFW | 2 |
| 7 | PANEL, RIGHT, PRX818XLFW | 1 |
| 8 | T-NUT 8-32X1 1/32 | 16 |
| 9 | BOTTOM PANEL, PRX818S | 1 |
| 10 | PORT SHELF, PRX818XLFW | 1 |
| 11 | PANEL, CENTER DIV, PRX818XLFW | 1 |
| 12 | GRILL SUPORT, PRX818XLF | 2 |
| 13 | GRILL SUPPORT SIDE, (NEW), PRX818XLFW | 2 |
| 14 | PANEL, BAFFLE, PRX818XLFW | 1 |
| 15 | T-NUT, 10-32 | 8 |
| 16 | PANEL, LEFT, PRX818XLFW | 1 |
| 18 | Pole mount, M20 3 hole pattern, various | 1 |
| 19 | GASKET, POLE CUP, EON518S | 1 |
| 20 | SCR, 1/4-20 X 1 1/4, FLT, PH, UNC, BLK ZNC, L | 3 |
| 21 | AMPLIFIER, PRX 815XLFW/818XLFW | 1 |
| 23 | SCR, 10-32 X 3/4", FLT, PH, BLK ZINC, LCS | 10 |
| 24 | HANDLE ASSY, PRX700 | 2 |
| 25 | FSTNR, MSCR, 8-32, HANDLE, VXP15 | 16 |
| 26 | FOOT, SRX | 4 |
| 27 | SCR, 10 X 3/4, PAN, PH, PB, BLK ZINC, LCS | 4 |
| 28 | LED PCB, PRX800 | 1 |
| 29 | SCR, 6X3/4", PAN, PH, PB, BLK | 2 |
| 30 | LOGO SRX800, EON615 | 1 |
| 31 | GRILLE, PRX818S | 1 |
| 32 | SCR, 6 X 3/4, OV, PH, PTCL, BLK ZC, LCS | 14 |
| 33 | M/I, 2278H | 1 |
| 35 | SCR, 10-32 X 1, FIL, PH, BLK | 8 |
| 39 | GASKET, HANDLE VTX-V25 | 2 |
| 44 | HARNESS ASSY, PRX718XLF | 1 |
| 50 | GASKET 2240H | 4 |
| 56 | ANTENNA, PRX800 | 1 |
| 57 | CABLE CLAMP, 0.38 I,D | 2 |
| 58 | SCR, 8 X 1/2, PAN, PH, PB, BLK ZINC, LCS | 2 |

| Bill of Materials - Amplifier | | |
|---|---|-----|
| Ref ID | Description | Qty |
| 1 | ENCL,CHAS,PRX800W EM | 1 |
| 2 | ISOLATING SHEET, PRX700 | 1 |
| 3 | GAP PAD 1, PRX700 | 2 |
| 4 | GAP PAD 2, PRX700 | 1 |
| 5 | GAP PAD 3, PRX700 | 1 |
| 6 | PSU / AMPLIFIER BOARD ASSEMBLY, PRX700 (A2710515B01A) | 1 |
| 7 | 26PIN RIBBON CABLE, PRX700 | 1 |
| 8 | CBL,WA,RF,PAS,200mm,50ohm,RP-SMA,MHF | 1 |
| 9 | GASKET, PCB PASS THROUGH | 1 |
| 10 | PASS THRU PCB ASSEMBLY- 2 WAY, PRX700 | 1 |
| 13 | MECHASY,PRX 815XLFW/818XLFW,REAR PNL | 1 |
| 1 | ENCL,PNL,BACK,PRX 815XLFW/818XLFW | 1 |
| 2 | AC INLET SOCKET, PRX700 | 1 |
| 3 | THRMMGT,FAN,50X50X15,24V,11.6 CFM | 1 |
| 4 | GROUND WIRE, PRX700 | 1 |
| 5 | PCB,ASY,PRX_8xx_LINE_FILTER,AV1 | 1 |
| R1-R6 | RES,1M00,1.0%,125mW,TN,1206,CSA TESTED | 6 |
| C1-C2 | CAP,100n,10%,275V,FILM,PP,RDL | 2 |
| WH1 | CBL,WA,18AWG,BRN/BLU,PRX800W | 1 |
| L1 | IDCTR,CHOKE,COMMON MODE,T25/15/13-R10K | 1 |
| WH3 | CBL,WA,IEC,PRX800W | 1 |
| 6 | PCB,ASY,PRX800W_INPUT_SUB,AV2 | 1 |
| U9,U11 | IC, DAC 2CH 24BIT 192KHZ CS4392 TSSOP20 | 2 |
| D1-D4,D9 | DIO,SCHOTTKY,BAT54S,30V,200mA,SOT23 | 5 |
| C190,C193-C195,C259-C263,C271 | CAP,10u,10%,25V,CER,X7R,1210 | 10 |
| C105,C129,C175-C180,C183,C249-C250 | CAP,10u,20%,6.3V,CER,X5R,0805 | 11 |
| L2 | IND, 10UH 1.8A 5.2X5.2 | 1 |
| C191-C192,C278-C279 | CAP,22u0,20%,10V,CER,X5R,1206 | 4 |
| S1,S4-S6 | SW, 1P1T PB 250V 50MA SM VRT | 4 |
| C21-C26,C47-C48,C68-C69,C78-C79,C98-C99,C103-C104,C123-C124,C202,C206,C217-C218,C223,C228,C256-C257,C273-C274 | CAP,1.0u,10%,25V,CER,X5R,0603 | 28 |
| C184-C186 | CAP,10n0,5%,25V,CER,X7R,0402 | 3 |
| U23 | IC, COMP LOBIAS TL3311 SOT-23-5 | 1 |
| R9-R10,R36-R37 | RES,182R,1%,63mW,THKF,0603 | 4 |
| R154 | RES,15k0,1%,100mW,THKF,0603 | 1 |
| R151,R156 | RES,1k21,1%,100mW,THKF,0603 | 2 |
| C92-C93,C127-C128 | CAP,1n0,5%,50V,CER,C0G,0603 | 4 |
| D14 | DIO,GP,MMBD4148SE,100V,200mA,SOT23 | 1 |
| U13-U15 | IC,VREG,MP2359,ADJ,SW,1.2A,SOT23-6 | 3 |
| D6-D8 | DIO,SCHOTTKY,SS14,1.0A,40V,DO-214AC/SMA | 3 |
| C74-C75,C82-C83 | CAP,2n2,5%,50V,CER,C0G,0603 | 4 |
| U12 | IC,DSP,ADSP-21489KSWZ-4B,400MHz,176,LQFP | 1 |
| Q2 | XSTR,BJT,NPN,80V,8A,D-PAK | 1 |

| | | |
|---|--|-----|
| R11-R12,R38-R39,R81-R82,R106-R107,R159 | RES,2k49,1%,63mW,THKF,0402 | 9 |
| FB1-FB4,FB7-FB15,FB17-FB21,FB23-FB25 | IDCTR,FBD,600R,100MHZ,1300mA, 0603 | 21 |
| L4-L8 | IDCTR,1U,1A,3.2X2.5X2.0,SM | 5 |
| DS11,DS13 | OPTO,LED,BLU,473nm,CLR 140mcd,SMD0603 | 2 |
| DS3,DS5,DS7-DS8 | OPTO,LED,GRN,565nm,CLR,30mcd,SM1206 | 4 |
| DS9-DS10 | OPTO,LED,YEL,589nm,DIF,8mcd,SM1206 | 2 |
| C1,C35,C100,C106-C108,C130-C132,C134-C174,C181-C182,C187-C189,C196-C198,C201,C203-C205,C208,C216,C219-C222,C224-C227,C232-C248,C253-C255,C258,C264-C270,C272,C275,C280 | CAP,100n,10%,16V,CER,X7R,0402 | 103 |
| C199,C229 | CAP,100u,20%,25V,EL,85C,6.3x7.7,SM | 2 |
| C12-C15,C38-C41,C72-C73,C80-C81,C90-C91,C125-C126 | CAP,10u0,20%,25V,EL,85C,4x5.4,SM | 16 |
| R65,R68-R70,R92-R93,R105,R134-R140,R142,R146-R149,R162-R163,R168-R170,R190-R191,R206,R208-R212,R220,R225,R228,R230-R231,R235-R237,R249,R259-R265,R267-R268,R273-R275,R288,R290-R292 | RES,10k0,1%,63mW,THKF,0402 | 57 |
| R87-R88,R112-R113,R132-R133,R192,R214,R217,R233,R266,R269-R270,R289,R293 | RES,1k00,1%,63mW,THKF,0402 | 15 |
| C2-C3,C27-C28 | CAP,10n0,5%,50V,CER,C0G,0805 | 4 |
| R64,R98-R99,R104,R119-R131,R143-R145,R201-R202,R229,R238-R248,R251-R254,R256-R258,R271-R272 | RES,49R9,1%,63mW,THKF,0201 | 43 |
| R73-R76,R89-R90,R114-R115 | RES,2k00,1%,63mW,THKF,0402 | 8 |
| JP1-JP2 | CON,XLR,M,3P,PLASTIC,TH,VERT | 2 |
| R232 | RES,1R00,1%,100mW,THKF,0603 | 1 |
| R155 | RES,0R00,+OR05,63mW,THKF,0402 | 1 |
| R77-R78 | RES,49R9,1%,63mW,THKF,0402 | 2 |
| C276-C277 | CAP,1n0,10%,50V,CER,X7R,0402 | 2 |
| U21 | IC,MEM,FLASH,SPI,64Mb,3.3v,SO8W,DANTE | 1 |
| Y2 | XTLO,XTAL,12.000MHz,18pF,SMD | 1 |
| HW1 | HDW,SHLD,SRX,4 XLRS | 1 |
| C10-C11,C36-C37,C84-C85,C102,C117-C118,C133,C251-C252 | CAP,18p0,5%,50V,CER,C0G,0603 | 12 |
| U24 | IC,DG411,QUAD,CMOS,ANALOG SWITCH | 1 |
| Y1 | XTLO,XTAL,24M576,18p,MTL,LP,SM,TA | 1 |
| R182,R184,R186-R189 | RES,255R,1%,63MW,THKF,0402 | 6 |
| R17-R22,R40-R45 | RES,1k27,1%,63MW,THKF,0402 | 12 |
| DS1,DS12 | OPTO,LED,RED/YEL,1.6X1.5X0.55MM,0605 | 2 |
| U20 | IC,LIN,SPRVSOR RESET,803,2.93V,SC70 | 1 |
| R153 | RES,9k53,1%,63mW,THKF,0402 | 1 |
| MOD1 | MDL,ELEC,WINC1510-MR210U,WIFI,8Mb | 1 |
| U18 | IC,CONV,ADC,CS5364,4CH,24BIT,192kHz,114dB,LQFP48 | 1 |

| | | |
|--|--|----|
| J4 | CON,HDR,1X2,2MM,RA,TH,ML | 1 |
| J10 | CON,HDR,VERT,2MM,3POS,TH | 1 |
| P1 | CON,HDR,2X13,SHRD,0.1",TH,VERT,ML | 1 |
| VR1 | RES,RTRY,10k0,B,VERT,TH | 1 |
| R1,R24,R102-R103 | RES,162R,1%,750mW,THKF,2010 | 4 |
| L3 | IDCTR,FBD,2u2,100kHz,3.2A,5.2x5.2,SM | 1 |
| L1 | IDCTR,FBD,47u0,100kHz,0.7A,5.2x5.2,SM | 1 |
| R158,R165-R166 | RES,137k,1%,100mW,THKF,0603 | 3 |
| U19 | IC,MIPRCS,SAM4S16CA,1MB FLASH,LQFP100 | 1 |
| J1-J2 | CON,XLR,VERT,AuCoAg,FEM,COMBO,DISASY | 2 |
| J6 | CON,USB,MICRO,I/O,TYPE B,VERT,RCPT,SM | 1 |
| R196-R198,R219,R221-R222 | RES,100k,1%,63mW,THKF,0402 | 6 |
| R141 | RES,1M00,1%,63mW,THKF,0402 | 1 |
| R23,R46,R199-R200,R203-R205,R207,R226-R227,R276-R277,R282-R287 | RES,10R0,1%,63mW,THKF,0402 | 18 |
| R91,R116 | RES,1k74,1%,63mW,THKF,0603 | 2 |
| R5-R8,R13-R16,R28-R35,R79-R80,R100-R101 | RES,20k0,1%,63mW,THKF,0402 | 20 |
| R164 | RES,200k,1%,63mW,THKF,0402 | 1 |
| R94-R95,R117-R118 | RES,24R9,1%,63mW,THKF,0402 | 4 |
| R83-R86,R108-R111,R160 | RES,3k01,1%,63mW,THKF,0402 | 9 |
| R4,R27 | RES,4k75,1%,63mW,THKF,0402 | 2 |
| R2-R3,R25-R26,R66-R67,R71-R72,R167 | RES,4k99,1%,63mW,THKF,0402 | 9 |
| R150,R152,R157,R161 | RES,49k9,1%,63mW,THKF,0402 | 4 |
| C4-C9,C29-C34,C94-C97,C109-C112,C230 | CAP,100p,5%,50V,CER,C0G,0402 | 21 |
| C20,C46,C70-C71,C76-C77 | CAP,330p,5%,50V,CER,C0G,0402 | 6 |
| C16-C19,C42-C45,C86-C89,C119-C122 | CAP,470p,5%,50V,CER,C0G,0402 | 16 |
| C207 | CAP,470UF 35V 20% ELEC RAD | 1 |
| Q1,Q3-Q8 | XSTR,N-CH,60V 0.2A,MMBT3904,SOT-23 | 7 |
| U1-U4,U7-U8,U10,U16,U22 | IC,AMPL,33078,DUAL_LOW_NOISE,SO8 | 9 |
| 7 | HDW,SWCAP,VERT,RND,BLACK,20MM HT,2.4MM SQ MT | 4 |
| 8 | HDW,LTPP,SINGLE SMT LED,DOME,26MM HT | 8 |
| 9 | KNOB, MIXER EON206P | 1 |
| 10 | FSTNR,MSCR,PH-PNH,6-32x3/8,#2,WSHR,BLUZN | 9 |
| 11 | FSTNR,MSCR,TORX,PNH,PLASTITE,4-20X.375 | 8 |
| 12 | FSTNR,MSCR,FLH,PH,M3,12mm,STL,BLKZN | 2 |
| 13 | FSTNR,NUT,M3,K-LCK,STL,ZN | 2 |
| 14 | NUT HEX 6-32 KEPS ZINC | 2 |
| 15 | RVT, .315X4.7X.09 SILRUB FAN | 4 |
| 16 | CBL,WA,16AWG,1.5",BLUE | 1 |
| 17 | CBL,WA,16AWG,1.5",BRN | 1 |
| 18 | LBL,PRNT,FCC ID,PRX800 WIFI | 1 |
| 19 | HDW,INSUL,TAPE,PRX800 LTPP | 1 |
| 14 | FSTNR,MSCR,PH-PNH,M3,8mm,BLKZN | 20 |
| 15 | FSTNR,MSCR,POZI,M4,SPR WSHR,10mm,BLUZN | 4 |
| 16 | FSTNR,MSCR,PH-PNH,6-32x1/4,EX SEMS,Zn | 1 |
| 17 | AMP GASKET, PRX700 | 2 |