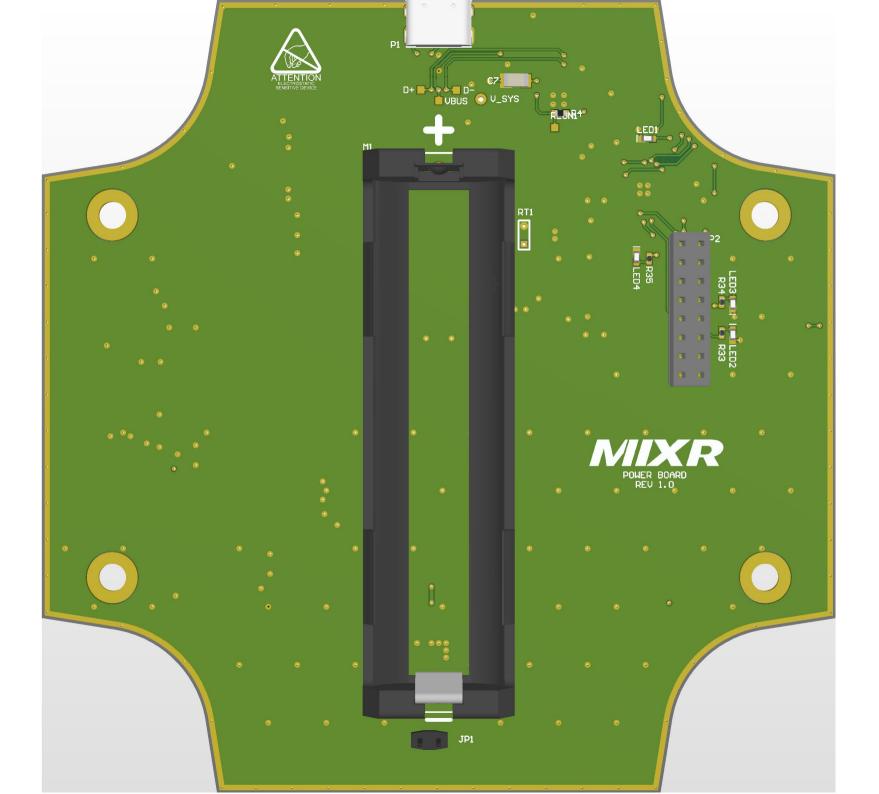
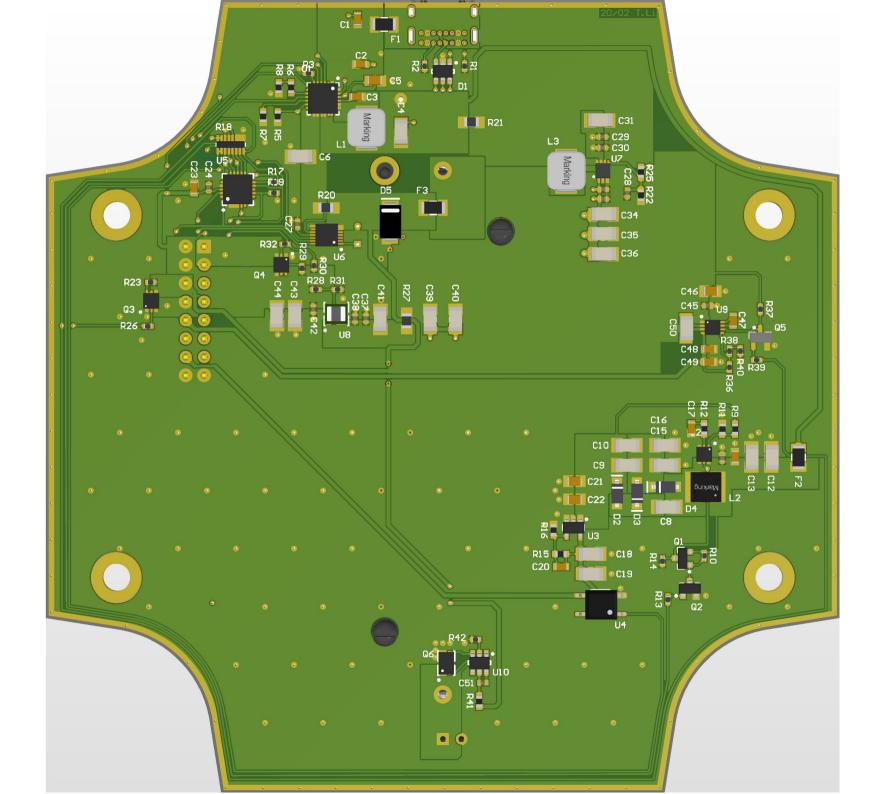


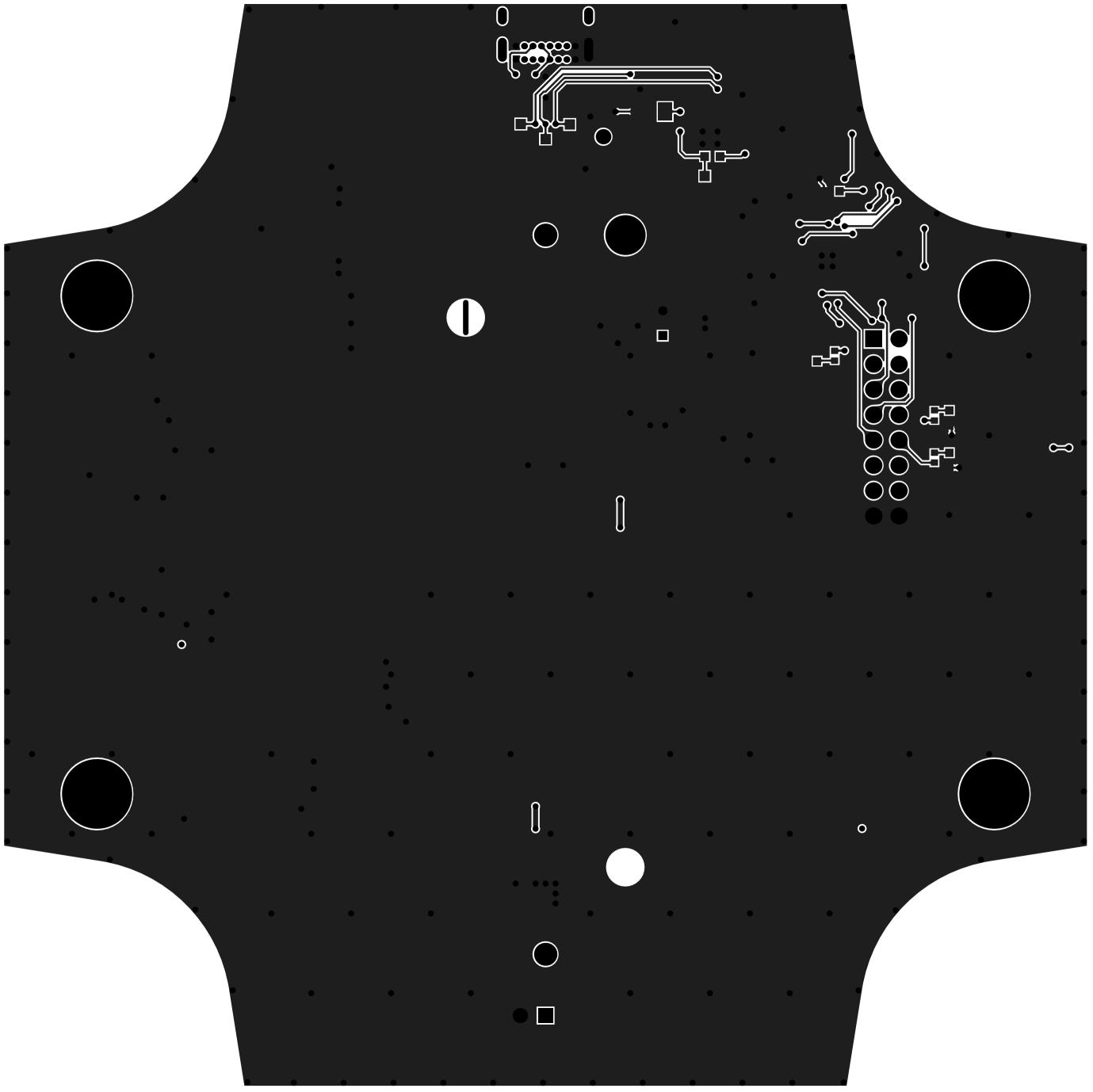
Bill of Materials					
Project:	MIXR Power.PrjPcb				
Revision:	1.0				
Project Lead:	Taiping Li				
Generated On:	2020-02-08 7:17 PM				
Production Quantity:	1				
Currency	CAD				
Total Parts Count:	132				

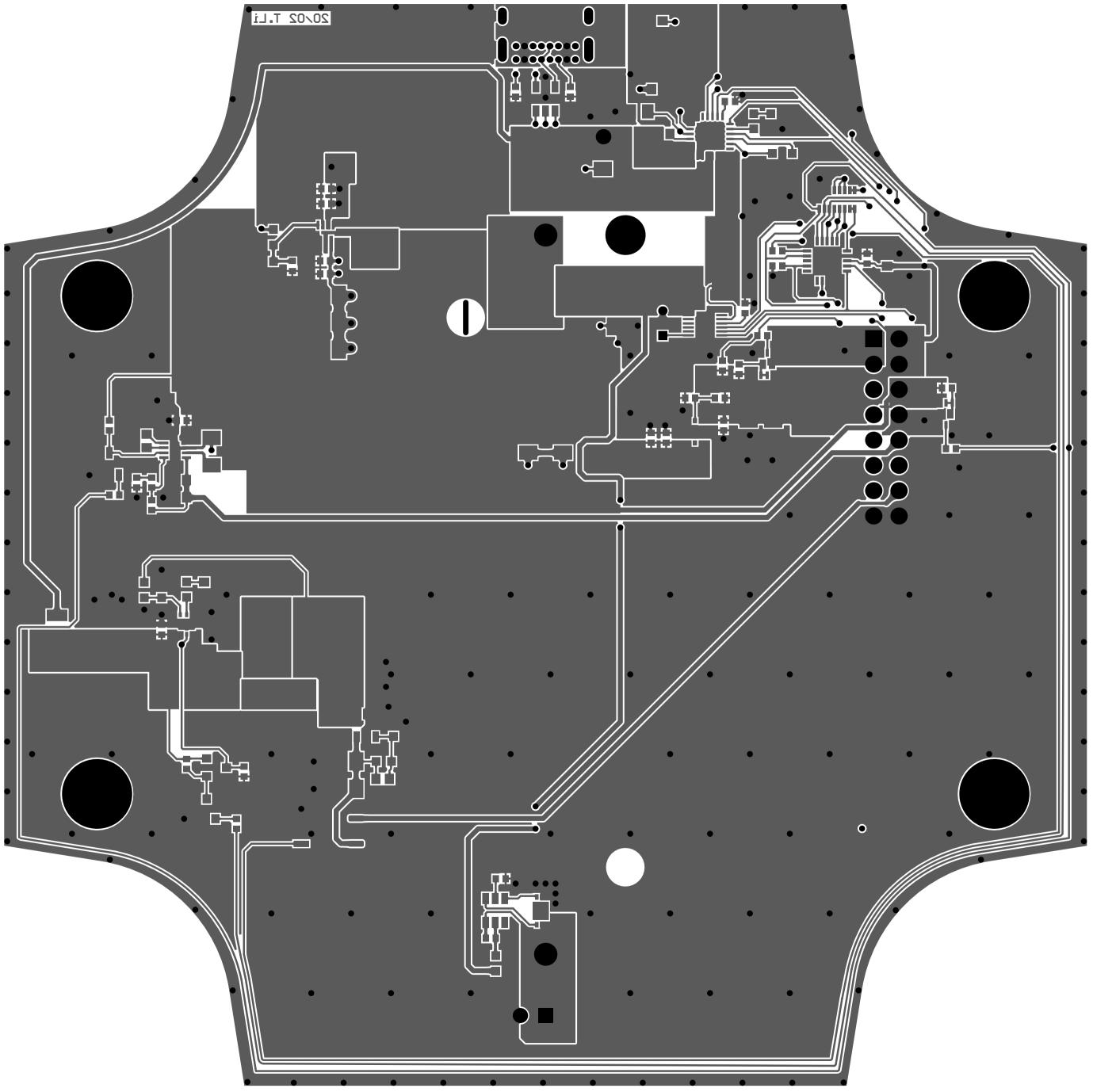


COPPER SOURCE TON, 25 YOR 6000 C. O. C. O. C.	LibRef	Designator	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Quantity	Supplier Subtotal 1
COPPER SOURCE TON, 25 YOR 6000 C. O. C. O. C.		9	Kyocera AVX		Digi-Key	478-5052-1-ND	0.13307	1	\$ 0.13
COPP CERT For FOR APPLY NOT 1998 CALL DELY, COLD CERT CALL COST CALL COS	CAP CER 1UF 50V 10% X7R 0603	C2, C14, C23, C47	Taiyo Yuden	UMK107AB7105KA-T	Digi-Key	587-3247-1-ND	0.33267	4	\$ 1.33
CAP CER 120F 197 NOR 2008									
CAP CRE ILEF ROW YER (CA) CAP CRE ILEF ROW YER									
COPP CERT DIT BY YEARS CO.									
CAPP CERT STUP FRO YRD (202)							0.42582		\$ 1.28
CAP CER 100F 507 FM POR COOKING SIGNATURE OF THE STATE OF									
CAP CREAT PIPE 1807 OF LOCATION OF CREAT PIPE 1807 OF CREAT PIPE 180								8	
CAPP CER OLIF (NO 1905 NOT 2005 E) CAPP CER								1	
CAP CER GET, BY VEY ROW					,				
CAP CAP FOR YOUNG NO.								2	
CAP CERT FOR 25V PTR 60025 CSC (CSC (CSC (CSC (CSC (CSC (CSC (CS								1	
CAP CER 2216 10 yet 075 With Six Right 100 CM, COS CAS, CAS, CAS, CAS, CAS, CAS, CAS, CAS									
CAP CER 22017 23 VTVS 975124									
DODE FOR SEAVING SOLD DODE									
DODGE TIS STANT Y 100 / 11 A SOCIEGE DE NIVELY STANT AS ORDERS DE NIVELY STANT A								2	
DODE								1	
FUSE 2.28 32/DC 1208									•
FUSE STAM A 120/DC 1209 F 2 LILINGHURE ORIGO, 375/NR Dg-k/ky F145SCT/ND 1.12 1 \$ 1.12 FUSE STAM A 120/DC 1209 F 3 Bit TIPP C1F6 Dg-k/ky Dg-k/k	, ,	-						· ·	•
FUSE 64 ASYNCT 1/200 573 Bel TRP CIFS Digi-Key 507-1861-140 0.3869 1 \$ 0.39								1	
CONN 2605 AUMPRIG 1								1	
RO 1141 5.3 / 20 MOMB SMD									
RD 22LH 1.7A 2800 MOPH SMID									
ELD BLUE CLEAR 28/ 9693 LED1								2	
LED GREEN CLEAR X7 0603								1	
BATTERY HOLDER 18950 M1 Keystone Electronics 1043P Digit-key 35-1043P-ND 3-43 1 \$ 3-45 CONN REDT/1826.0TPREC-18POS P1 Global Connector Technology USB-866-SF-AP. Digit-key 77-1345R-866-SF-AP-AP. Digit-key 77-1345R-866-SF-AP-AP-AP-AP-AP-AP-AP-AP-AP-AP-AP-AP-AP-								1	
CONN RECPT USB2.0 TYPE-C 16POS									
CONN. 16PGS HEADER 0.1" 0.435" FEMALE									\$ 3.43
MOSFET FLCH SWY. 38A SOT:23 Q1									6 0.45
MOSPET NCH 30V 6.2 A.0 9W SOT-23								· ·	
MOSFET NP-CH 127 4.5A 5C-70-6								1	
MOSFET TACH 607 316MA SOT23 OS Diodes DMMSDBL-7 Dight-Key DMMSDBL-7DCT-ND 0.22822 1 \$ 0.23								1	
MOSFET 22N-CH 22N 9A 6-UDFN									
RES 5.1K CHM 1%, 1/16W 0402 R.1, R.2 Stackpole Electronics RNC-0402FTSK10 Dig-Key 311-10, UKLRCTAD 0.13307 2 \$ 0.27 RES 10K OHM 1%, 1/10W 0603 R.8, R.19, R.23, S.2R, R.30, R.77, R.40 Yageo Phycomp RC0603FR-0710KL Dig-Key 311-10, OKLRCTAD 0.13307 4 \$ 0.53 RES 20C OHM 1%, 1/10W 0603 R.8, R.11, R.12 Yageo Phycomp RC0603FR-0710KL Dig-Key 311-10, OKLRCTAD 0.13307 1 \$ 0.53 RES 30C OHM 1%, 1/10W 0603 R.8 Yageo Phycomp RC0603FR-0710KL Dig-Key 311-12, OKLRCTAD 0.13307 1 \$ 0.53 RES 30C OHM 1%, 1/10W 0603 R.8 Yageo Phycomp RC0603FR-0720RL Dig-Key 311-229HCTAD 0.13307 2 \$ 0.27 RES 40C OHM 0.5%, 1/10W 0603 R.8 Yageo RC0603FR-0720RL Dig-Key 311-12, OKLRCTAD 0.13307 2 \$ 0.27 RES 40C OHM 0.5%, 1/10W 0603 R.8 Yageo RT06003DEC-0740R2L Dig-Key 311-2555-1-ND 0.1590F 1 \$ 0.17 RES 20C OHM 0.5%, 1/10W 0603 R.8 Yageo RT06003DEC-0740R2L Dig-Key 311-2555-1-ND 0.1590F 1 \$ 0.17 RES 20C OHM 1%, 1/10W 0603 R.9 Yageo RT06003DEC-07309KL Dig-Key 311-2555-1-ND 0.17299 1 \$ 0.17 RES 20C OHM 1%, 1/10W 0603 R.9 Yageo RT06003DEC-07309KL Dig-Key 311-2555-1-ND 0.13307 4 \$ 0.53 RES 21 OHM 1%, 1/10W 0603 R.13, R.26, R.32, R.39 Yageo RC0402FR-0740EKL Dig-Key 311-2255-1-ND 0.13307 4 \$ 0.53 RES 21 OHM 1%, 1/10W 0603 R.13, R.26, R.32, R.39 Yageo RC0402FR-0740EKL Dig-Key 311-22 LRCTAD 0.13307 4 \$ 0.53 RES 30C OHM 0.1%, 1/10W 0603 R.13, R.26, R.32, R.39 Yageo RC0402FR-0740EKL Dig-Key Yageo SCO-0740EKL Dig-Key Yageo RC0402FR-0720EKL Dig-Key Yageo RC040								4	
RES 10K OHM 1% 1/16W 0402 R3, R19, R23, R29, R30, R37, R40 Yageo RC0402FR-07/10KL Dig-Key 311-10,0KLRCT-ND 0.13307 7 S 0.93 R8, RR 11, R12 Yageo Phycomp RC0603FR-07/10KL Dig-Key 311-10,0KLRCT-ND 0.13307 4 S 0.53 R8 A, R, R, R11, R12 Yageo Phycomp RC0603FR-07/10KL Dig-Key 311-10,0KLRCT-ND 0.13307 1 S 0.13 RR 230 OHM 1% 1/10W 0603 R6 Yageo RC0403FR-07/20KL Dig-Key 311-220HRCT-ND 0.13307 1 S 0.13 RR 230 OHM 1% 1/10W 0603 R8 P8 Yageo RC0403FR-07/20KL Dig-Key 311-220HRCT-ND 0.13307 2 S 0.27 RES 40, 20 HM 1% 1/10W 0603 R8 Yageo RC0403FR-07/20KL Dig-Key 311-220HRCT-ND 0.13307 1 S 0.13 RR 25 C 0 HM 1% 1/10W 0603 R8 Yageo RC0403FR-07/20KL Dig-Key 311-2576+1-ND 0.15068 1 S 0.16 R8 Yageo RC0403FR-07/20KL Dig-Key 311-2576+1-ND 0.15068 1 S 0.16 R8 Yageo RC0403FR-07/20KL Dig-Key 311-2576+1-ND 0.15068 1 S 0.16 R8 Yageo RC0403FR-07/20KL Dig-Key 311-2576+1-ND 0.15007 4 S 0.55 RES 10X OHM 1% 1/10W 0402 R10, R10, R14, R31, R38 Yageo RC0403FR-07/20KL Dig-Key 311-22576+1-ND 0.15307 4 S 0.55 RES 10X OHM 1% 1/10W 0402 R10, R10, R14, R31, R38 Yageo RC0403FR-07/20KL Dig-Key 311-22576+1-ND 0.15307 4 S 0.55 RES 1M OHM 01% 1/10W 0603 R15 Yageo RC0403FR-07/20KL Dig-Key 311-22576+1-ND 0.15307 4 S 0.55 RES 1M OHM 01% 1/10W 0603 R16 Panasonic E049588677 M								2	
RES 10K CHM 1% 1/10W 0603 R4, R5, R11, R12 Yageo Phycomp RC0603FR-0710KL Dgi-key 311-10.0KHRCT-ND 0.13307 4 \$ 0.53 R8 R8 Yageo Phycomp RC0603FR-0720KL Dgi-key A129862CT-ND 0.13307 1 \$ 0.53 RES 300 CHM 1% 1/10W 0603 R7, R41 TE Connectivity RC06005F8-0720KL Dgi-key A129862CT-ND 0.13307 2 \$ 0.27 RES 402 CMH 0.5% 1/10W 0603 R8 WYageo RT0603DRE07390KL Dgi-key A129862CT-ND 0.13307 2 \$ 0.27 RES 402 CMH 0.5% 1/10W 0603 R8 WYageo RT0603DRE07390KL Dgi-key A129862CT-ND 0.13307 4 \$ 0.07 RES 100 CMH 0.5% 1/10W 0603 R9 Yageo RT0603DRE07390KL Dgi-key 311-2555-1-ND 0.17299 1 \$ 0.17 RES 1626 CMH 1% 1/10W 0603 R10, R14, R31, R38 Yageo RC0402FR-0762KL Dgi-key 311-2555-1-ND 0.17299 1 \$ 0.17 RES 1626 CMH 1% 1/10W 0603 R10, R14, R31, R38 Yageo RC0402FR-0762KL Dgi-key 311-2555-1-ND 0.173907 4 \$ 0.053 RES 1M 0.04 ND 1.3% 1/10W 0603 R15, R5 M10 ND 1.3% 1/10W 0603 R15 R5 M10 ND 1.3% 1/10W 0603 R15 Panasonic ERJ-PB3326F27V Dgi-key 311-22 LRCT-ND 0.13307 4 \$ 0.53 RES 1M 0.04 ND 1.3% 1/10W 0603 R16 Panasonic ERJ-PB3326F27V Dgi-key 2012CT-ND 0.33267 1 \$ 0.33 RES 1M 0.04 ND 1.3% 1/10W 0603 R16 Panasonic ERJ-PB3326F27V Dgi-key P20132CT-ND 0.33267 1 \$ 0.33 RES 1M 0.05 ND 1.3% 1/10W 0603 R16 Panasonic ERJ-PB3326F27V Dgi-key P20132CT-ND 0.33267 1 \$ 0.33 RES 1M 0.05 ND 1.3% 1/10W 0603 R16 Panasonic ERJ-PB3326F27V Dgi-key P20132CT-ND 0.33267 1 \$ 0.33 RES 1M 0.05 ND 1.3% 1/10W 0603 R16 Panasonic ERJ-PB326F27V Dgi-key Y10G2CT-ND 0.33267 1 \$ 0.33 RES 1M 0.05 ND 1.3% 1/10W 0603 R16 Panasonic ERJ-PB326F27V Dgi-key Y10G2CT-ND 0.33267 1 \$ 0.33 RES 1M 0.05 ND 1.3% 1/10W 0603 R16 Panasonic ERJ-PB326F27V Dgi-key Y10G2CT-ND 0.33267 1 \$ 0.33 RES 1M 0.05 ND 1.3% 1/10W 0603 R16 Panasonic ERJ-PB326F27V Dgi-key Y10G2CT-ND 0.33267 1 \$ 0.33 RES 1M 0.05 ND 1.3% 1/10W 0603 R16 Panasonic ERJ-PB326F27V Dgi-key Y10G2CT-ND 0.33267 1 \$ 0.33 RES 1M 0.05 ND 1.3% 1/10W 0602 R22 Panasonic ERJ-PB4703XV Dgi-key Y10G2CT-ND 0.33307 1 \$ 0.33 RES 1M 0.05 ND 1.3% 1/10W 0602 R22 Panasonic ERJ-PB4703XV Dgi-key Y10G2CT-ND 0.13307 1 \$ 0.13 ND 1.3W 070 ND 1.3W 070 ND 1.3W 070 ND 1.3W 070		,							
RES 220 OHM 1% 1/10W 0603 R8 Yago Phycomp RC0603FR 072/20RL Dgi-Key 311-22DHRCT-ND 0.13307 1 \$ 0.13 RR 53 00 OHM 1% 1/10W 0603 R8 Yago RT0603DRE0730ML Dgi-Key 311-225FC-1-ND 0.15978 1 \$ 0.27 RES 20 CHM 1% 1/10W 0603 R8 Yago RT0603DRE0730ML Dgi-Key 311-225FC-1-ND 0.15988 1 \$ 0.16 RES 300K OHM 1% 1/10W 0603 R9 Yago RT0603DRE0730ML Dgi-Key 311-225FC-1-ND 0.15988 1 \$ 0.16 RES 300K OHM 1% 1/10W 0603 R10, R14, R31, R38 Yago RT0603DRE0730ML Dgi-Key 311-225FC-1-ND 0.15988 1 \$ 0.16 RES 165K OHM 1% 1/16W 0402 R10, R14, R31, R38 Yago RC0402FR-072R1L Dgi-Key YAG2370CT-ND 0.13307 4 \$ 0.53 RES 161K OHM 1% 1/10W 0402 R13, R26, R32, R39 Yago RC0402FR-072R1L Dgi-Key YAG2480CT-ND 0.13307 4 \$ 0.53 RES 170 NHM 1/% 1/10W 0603 R16 Parasonic ERJ-P5382672V Dgi-Key YAG2480CT-ND 0.33067 1 \$ 0.43 RES 26 7K OHM 0.1% 1/10W 0603 R16 Parasonic ERJ-P5382672V Dgi-Key P2013CT-ND 0.33267 1 \$ 0.33 RES 170 NHM 1/% 1/10W 0402 R17 Yago RT0603BRD071ML Dgi-Key YAG2408CT-ND 0.33267 1 \$ 0.33 RES 170 NHM 1/% 1/10W 0402 R17 Yago RT0603BRD071ML Dgi-Key YAG2408CT-ND 0.33267 1 \$ 0.33 RES 170 NHM 1/% 1/10W 0402 R17 Yago RT0402BRE071KL Dgi-Key YAG240CT-ND 0.54897 1 \$ 0.33 RES 300 OHM 1/% 1/10W 0402 R2 R17 Yago RT0402BRE071KL Dgi-Key Y140C270BCT-ND 0.54897 1 \$ 0.33 RES 570 K OHM 1/% 1/10W 0402 R22 Yago RC0402FR-07750KL Dgi-Key Y140C270BCT-ND 0.5859 1 \$ 0.39 RES 500 OHM 1/% 1/10W 0402 R22 Yago RC0402FR-07750KL Dgi-Key YAG322BCT-ND 0.13307 1 \$ 0.13 RES 570 K OHM 1/% 1/10W 0402 R28, R36 Yago RC0402FR-07750KL Dgi-Key YAG3177CT-ND 0.13307 2 \$ 0.27 RES 47K OHM 1/% 1/10W 0402 R28, R36 Yago RC0402FR-07750KL Dgi-Key YAG3177CT-ND 0.13307 1 \$ 0.13 RES 10W 040 R38, R34, R35 Yago RC0402FR-07750KL Dgi-Key YAG3177CT-ND 0.13307 1 \$ 0.13 RES 10W 040 R38, R34, R35 Yago RC0402FR-07750KL Dgi-Key YAG3177CT-ND 0.13307 1 \$ 0.13 RES 27K OHM 1/% 1/10W 0402 R28, R36 Yago RC0402FR-07750KL Dgi-Key YAG3177CT-ND 0.13307 1 \$ 0.13 RES 10W 040 R38, R34, R35 Yago RC0402FR-07750KL Dgi-Key YAG3177CT-ND 0.13307 1 \$ 0.33 R10 R58 10W 040 R38, R34, R35 Yago RC0402FR-07750KL Dgi-Key YAG3177CT-ND 0.133			ŭ		,				
RES 330 OHM 1% 1/10W 0603								1	
RES 402 OHM 0.5% 1/10W 0603 R8 Yageo RT0603DRE0740R2L Digi-Key 311-2576-1-ND 0.15988 1 \$ 0.16 RE 300K OHM 1% 1/10W 0603 R9 Yageo RT0603DRE0730RL Digi-Key 311-2555-1-ND 0.17299 1 \$ 0.17 RES 162K OHM 1% 1/16W 0402 R10, R14, R31, R38 Yageo RC0402FR-07162KL Digi-Key 4022370CTND 0.13307 4 \$ 0.53 RES 22 CHM 1% 1/16W 0402 R13, R26, R32, R39 Yageo RC0402FR-07162KL Digi-Key 4022370CTND 0.13307 4 \$ 0.53 RES 22 CHM 1% 1/16W 0402 R13, R26, R32, R39 Yageo RC0402FR-07162KL Digi-Key 4022370CTND 0.13307 4 \$ 0.53 RES 1M OHM 0.1% 1/10W 0603 R15 Yageo RC0402FR-07162KL Digi-Key 402370CTND 0.13307 4 \$ 0.53 RES 1M OHM 0.1% 1/10W 0603 R16 Panasonic ERJ-P5832672V Digi-Key 402370CTND 0.43913 1 \$ 0.44 RES 26.7K OHM 0.1% 1/10W 0402 R17 Yageo RT0402BRE071KL Digi-Key 402306CTND 0.51897 1 \$ 0.53 RES 1KO OHM 0.1% 1/10W 0402 R18 Panasonic EX-25-HV103.N R18 Panasonic EX-25-HV103.N R18 Panasonic Digi-Key 402306CTND 0.51897 1 \$ 0.52 RES ARRAY 10K OHM 8% RRES EX-25-HV103.N R18 Panasonic EX-25-HV103.N Digi-Key 402306CTND 0.51897 1 \$ 0.52 RES 0.05 OHM 1% 1/16W 0402 R22 Yageo RC0402FR-07750KL Digi-Key 402226CTND 0.03899 1 \$ 0.39 RES 500 OHM 1% 1/16W 0402 R22 Yageo RC0402FR-07750KL Digi-Key 402328CT-ND 0.13307 1 \$ 0.13 RES 100K OHM 0.1% 1/16W 0402 R22 Yageo RC0402FR-07750KL Digi-Key 402328CT-ND 0.13307 1 \$ 0.13 RES 25 Yageo RC0402FR-07750KL Digi-Key 4023707CTND 0.53307 1 \$ 0.55 RES 523K OHM 1% 1/16W 0402 R23, R34, R35 Yageo RC0402FR-07528KL Digi-Key 403177CT-ND 0.53307 2 \$ 0.27 RES 4.7K OHM 1% 1/16W 0402 R23, R34, R35 Yageo RC0402FR-07528KL Digi-Key 403177CT-ND 0.13307 1 \$ 0.55 RES 22K OHM 1% 1/16W 0402 R23, R34, R35 Yageo RC0402FR-07528KL Digi-Key 403177CT-ND 0.13307 1 \$ 0.55 RES 22K OHM 1% 1/16W 0402 R23, R34, R35 Yageo RC0402FR-07528KL Digi-Key 403177CT-ND 0.13307 1 \$ 0.55 RES 22K OHM 1% 1/16W 0402 R23, R34, R35 Yageo RC0402FR-07528KL Digi-Key 40288CD100 0.13307 1 \$ 0.55 RES 22K OHM 1% 1/16W 0402 R23, R34, R35 Yageo RC0402FR-07528KL Digi-Key 40288CD100 0.13307 1 \$ 0.55 RES 22K OHM 1% 1/16W 0402 R23, R34, R35 Yageo RC0402FR-07528KL Digi-Key 40288CD								2	
RES 300K OHM 1% 1/10W 0603 R9 Yageo RT06/30RE/7390KL Dgl-Key 311-2555-ND 0.17299 1 \$ 0.172 RES 162K OHM 1% 1/16W 0402 R10, R14, R31, R38 Yageo RC0402FR-0722R1L Dgl-Key 311-2555-ND 0.13307 4 \$ 0.53 RES 21 OHM 1% 1/16W 0402 R13, R28, R32, R39 Yageo RC0402FR-0722R1L Dgl-Key 311-22-1LRCT-ND 0.13307 4 \$ 0.53 RES 1M OHM 0.1% 1/10W 0603 R15 Yageo RC0402FR-0722R1L Dgl-Key 311-22-1LRCT-ND 0.13307 4 \$ 0.53 RES 1M OHM 0.1% 1/10W 0603 R15 Panasonic ERJ-P5826F2V2 Dgl-Key YA64496CT-ND 0.43307 1 \$ 0.44 RES 21K OHM 0.1% 1/10W 0603 R16 Panasonic ERJ-P5826F2V2 Dgl-Key YA64496CT-ND 0.43307 1 \$ 0.43 RES 1K OHM 0.1% 1/16W 0402 R17 Yageo RT04028RE071KL Dgl-Key YA62406CT-ND 0.33267 1 \$ 0.33 RES 1K OHM 0.1% 1/16W 0402 R17 Yageo RT04028RE071KL Dgl-Key YA62306CT-ND 0.51897 1 \$ 0.52 RES 3005 OHM 1% 1/16W 0402 R2 Yageo RC0402FR-0776KL Dgl-Key YA62306CT-ND 0.33569 1 \$ 0.39 RES 0.005 OHM 1% 1/16W 0402 R22 Yageo RC0402FR-0776KL Dgl-Key F0806F-Z-R005ELFCT-N 0.71857 3 \$ 2.16 RES 570K OHM 0.1% 1/16W 0402 R22 Yageo RC0402FR-0776KL Dgl-Key YA63232CT-ND 0.13307 1 \$ 0.13 RES 10K OHM 0.1% 1/16W 0402 R22 Pageo RT0402FR-0776KL Dgl-Key YA6332CT-ND 0.13307 1 \$ 0.13 RES 10K OHM 0.1% 1/16W 0402 R28 R36 Yageo RC0402FR-078KL Dgl-Key YA6333CT-ND 0.13307 1 \$ 0.55 RES 52K OHM 1% 1/16W 0402 R28 R36 Yageo RC0402FR-074K7L Dgl-Key YA63317CT-ND 0.54558 1 \$ 0.55 RES 52K OHM 1% 1/16W 0402 R32 R28 R36 Yageo RC0402FR-074K7L Dgl-Key YA63137CT-ND 0.13307 3 \$ 0.46 RES 2.7K OHM 1% 1/10W 0402 R32 R28 R36 Yageo RC0402FR-074K7L Dgl-Key YA63137CT-ND 0.13307 3 \$ 0.46 RES 2.7K OHM 1% 1/10W 0402 R33, R34, R35 Yageo RC0402FR-074K7L Dgl-Key YA63137CT-ND 0.13307 3 \$ 0.45 RES 2.7K OHM 1% 1/10W 0402 R33, R34, R35 Yageo RC0402FR-074K7L Dgl-Key YA63137CT-ND 0.13307 3 \$ 0.45 RES 2.7K OHM 1% 1/10W 0402 R33, R34, R35 Yageo RC0402FR-074K7L Dgl-Key YA63137CT-ND 0.13307 1 \$ 0.35 RES 2.7K OHM 1% 1/10W 0402 R33, R34, R35 Yageo RC0402FR-074K7L Dgl-Key YA63137CT-ND 0.13307 1 \$ 0.35 RES 2.7K OHM 1% 1/10W 0402 R33, R34, R35 Yageo RC0402FR-074K7L Dgl-Key YA63137CT-ND 0.13307 1 \$ 0.45 RES 2.7K OHM 1%								1	
RES 162X OHM 1% 1/16W 0402 R10, R14, R31, R38 Yageo RC0402FR-07162XL Digi-Key YAG2370CT-ND 0.13307 4 \$ 0.53 RES 22.1 OHM 1% 1/16W 0402 R13, R26, R32, R39 Yageo RC0402FR-072ZR1L Digi-Key YAG249BCT-ND 0.13307 4 \$ 0.53 RES 1M OHM 0.1% 1/10W 0603 R15 Yageo RT06039RD071ML Digi-Key YAG449BCT-ND 0.43913 1 \$ 0.44 RES 26.7X OHM 0.1% 1/10W 0603 R16 Panasonic ER_PB382672V Digi-Key P20132CT-ND 0.33267 1 \$ 0.33 RES 1K OHM 0.1% 1/10W 0603 R16 Panasonic ER_PB382672V Digi-Key P20132CT-ND 0.33267 1 \$ 0.33 RES 1K OHM 0.1% 1/16W 0402 R17 Yageo RT06039RD071ML Digi-Key YAG2309CT-ND 0.51897 1 \$ 0.52 RES ARRAY 10K OHM 0.1% 1/16W 0402 R17 Yageo RT06039RE071KL Digi-Key YAG2309CT-ND 0.51897 1 \$ 0.52 RES ARRAY 10K OHM 0.1% 1/16W 0402 R20, R20, R21, R27 Bourns CR_P005_F2-R005_ELF Digi-Key YAG2309CT-ND 0.3859 1 \$ 0.39 RES 0.05 OHM 1% 1/16W 0402 R22 Yageo RC0402FR-07750KL Digi-Key YAG230ECT-ND 0.13307 1 \$ 0.13 RES 100K OHM 1% 1/16W 0402 R22 Yageo RC0402FR-07750KL Digi-Key YAG3322ECT-ND 0.13307 1 \$ 0.13 RES 100K OHM 1% 1/16W 0402 R28, R36 Yageo RC0402FR-0752KL Digi-Key YAG3342CT-ND 0.13307 1 \$ 0.13 RES 100K OHM 1% 1/16W 0402 R28, R36 Yageo RC0402FR-0752KL Digi-Key YAG3343CT-ND 0.13307 2 \$ 0.27 RES 4.7K OHM 1% 1/16W 0402 R33, R34, R35 Yageo RC0402FR-0752KL Digi-Key YAG3343CT-ND 0.13307 3 \$ 0.40 RES 2.7K OHM 1% 1/16W 0402 R32, R36 Yageo RC0402FR-0752KL Digi-Key YAG3343CT-ND 0.13307 3 \$ 0.40 RES 2.7K OHM 1% 1/16W 0402 R32 Panasonic ER_P2RKF2701X Digi-Key YAG3343CT-ND 0.13307 1 \$ 0.13 RTC THERMISTOR 10K 1% BEAD R11 Murata NXRT15W103FA1B030 Digi-Key 490-8801-ND 0.13307 1 \$ 0.13 RTC THERMISTOR 10K 1% BEAD R11 Murata NXRT15W103FA1B030 Digi-Key 490-8801-ND 0.93148 1 \$ 0.93 Thru Tiest Point Thru Ties								1	
RES 22 1 OHM 1% 1/16W 0402 R13, R26, R32, R39 Yageo RC0402FR-0722R1L Digi-Key 311-22 I.RCT-ND 0.13307 4 \$ 0.53 RES IM OHM 0.1% 1/10W 0603 R15 Yageo RT0603BR07/IML Digi-Key YAG0489CT-ND 0.43913 1 \$ 0.44 RES 26, 7K OHM 0.1% 1/10W 0603 R16 Panasonic ERJ-PB382672V Digi-Key P20132CT-ND 0.33267 1 \$ 0.33 RES 1K OHM 0.1% 1/16W 0402 R17 Yageo RT0402BR07/IKL Digi-Key YAG0208CT-ND 0.51897 1 \$ 0.33 RES ARRAY 10K OHM 5% RESE SEX-2HV103JV R18 Panasonic EXB-2HV103JV Digi-Key Y1003CT-ND 0.51897 1 \$ 0.52 RES ARRAY 10K OHM 5% RESE SEX-2HV103JV R18 Panasonic EXB-2HV103JV Digi-Key Y1103CT-ND 0.3859 1 \$ 0.52 RES ARRAY 10K OHM 5% RESE SEX-2HV103JV R18 Panasonic EXB-2HV103JV Digi-Key Y1103CT-ND 0.3859 1 \$ 0.52 RES 0.005 OHM 1% 1/2W 0805 R20, R21, R27 Boums CRF0805-F2-R005ELF Digi-Key F1005F-Z-R005ELFCT-N 0.71857 3 \$ 2.16 RES 750K OHM 1% 1/16W 0402 R22 Yageo RC0402FR-0750KL Digi-Key YAG032CT-ND 0.13307 1 \$ 0.13 RES 100K OHM 0.1% 1/16W 0402 R25 Yageo RT0402BR007100KL Digi-Key YAG033CT-ND 0.45588 1 \$ 0.55 RES 523K OHM 1% 1/16W 0402 R28, R36 Yageo RT0402BR007100KL Digi-Key YAG013YCT-ND 0.45588 1 \$ 0.55 RES 523K OHM 1% 1/16W 0402 R28, R36 Yageo RC0402FR-0752KL Digi-Key YAG013YCT-ND 0.13307 2 \$ 0.27 RES 4.7K OHM 1% 1/16W 0402 R3, R3, R34, R35 Yageo RC0402FR-0752KT. Digi-Key YAG013YCT-ND 0.13307 2 \$ 0.27 RES 4.7K OHM 1% 1/16W 0402 R32, R38, R35 Yageo RC0402FR-0752KT. Digi-Key YAG013YCT-ND 0.13307 1 \$ 0.13 NTC THERMISTOR 10K 1/16W 0402 R42 Panasonic EX-2FKF270TX Digi-Key 49-8601-ND 0.13307 1 \$ 0.13 NTC THERMISTOR 10K 1/16W 0402 R42 Panasonic EX-2FKF270TX Digi-Key 49-8601-ND 0.13307 1 \$ 0.13 NTC THERMISTOR 10K 1/16W 0402 R42 Panasonic EX-2FKF270TX Digi-Key 49-8601-ND 0.13307 1 \$ 0.13 NTC THERMISTOR 10K 1/16W 0402 R42 Panasonic EX-2FKF270TX Digi-Key 49-8601-ND 0.13307 1 \$ 0.13 NTC THERMISTOR 10K 1/16W 0402 R42 Panasonic EX-2FKF270TX Digi-Key 49-8601-ND 0.13307 1 \$ 0.13 NTC THERMISTOR 10K 1/16W 0402 R42 Panasonic EX-2FKF270TX Digi-Key 49-8601-ND 0.13307 1 \$ 0.13 NTC THERMISTOR 10K 1/16W 0402 R42 Panasonic EX-2FKF270TX DIgi-Key 49-8601-ND 0.1330		-							
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RES 0.005 OHM 1% 1/2W 0805 R20, R21, R27 Boums CRF0805-FZ-R005ELF Digi-Key RF0805-FZ-R005ELFCT-N 0.71857 3 \$ 2.16 RES 750K OHM 1% 1/16W 0402 R22 Yageo RC0402FR-07750KL Digi-Key YAG3228CT-ND 0.13307 1 \$ 0.13 RES 100K OHM 0.1% 1/16W 0402 R25 Yageo RC0402FR-07750KL Digi-Key YAG3228CT-ND 0.13307 1 \$ 0.55 RES 523K OHM 1% 1/16W 0402 R28, R36 Yageo RC0402FR-07523KL Digi-Key YAG3137CT-ND 0.13307 2 \$ 0.27 RES 4.7K OHM 1% 1/16W 0402 R38, R34, R35 Yageo RC0402FR-07523KL Digi-Key YAG3177CT-ND 0.13307 2 \$ 0.27 RES 4.7K OHM 1% 1/16W 0402 R38, R34, R35 Yageo RC0402FR-074K7L Digi-Key YAG3177CT-ND 0.13307 3 \$ 0.40 RES 2.7K OHM 1% 1/16W 0402 R34, R35 Yageo RC0402FR-074K7L Digi-Key YAG3177CT-ND 0.13307 1 \$ 0.13 NTC THERMISTOR 10K 1% BEAD R11 Murata NXRT15XH103FA1B030 Digi-Key 490-8601-ND 0.13307 1 \$ 0.33 Thru Test Point Thru Test Point TH_TP?, VBAT_PROT1 B025606RGER Digi-Key 296-42743-1-ND 0.93148 1 \$ 0.93 Texas Instruments B025606RGER Digi-Key 296-22945-1-ND 0.885 1 \$ 0.85 L78 RELAY SOLID STATE CPC1017N SPST 100mA U4 Rys Clare CPC1017NTR Digi-Key R79072BGB Digi-Key R79072BGB-ND 1.78 1 \$ 1.76 Richtek R79072BGB Digi-Key R79072BGB-ND 1.78 1 \$ 1.65 L78 RELAY SOLID STATE CPC1017N SPST 100mA U4 RX RYS Clare CPC1017NTR Digi-Key CPC3008T-E/MLCT-ND 1.46 1 \$ 1.66 L78 RX RYS Clare CPC1017NTR Digi-Key CPC3008T-E/MLCT-ND 1.46 1 \$ 1.66 L78 RX RYS Clare CPC1017NTR Digi-Key CPC3008T-E/MLCT-ND 1.46 1 \$ 1.66 L78 RX RYS Clare CPC1017NTR Digi-Key CPC3008T-E/MLCT-ND 1.46 1 \$ 1.66 L78 RX RYS CLARS CREATED THE MAXITY DIGI-Key Set CPC1017NTR Digi-Key CPC3008T-E/MLCT-ND 1.46 1 \$ 1.66 L78 RX RYS CLARS CREATED THE MAXITY DIGI-Key Set CPC1017NTR DIgi-Key CPC3008T-E/MLCT-ND 1.46 1 \$ 1.66 L78 RX RYS CLARS CREATED THE MAXITY DIGI-Key Set CPC1017NTR DIgi-Key CPC3008T-E/MLCT-ND 1.46 1 \$ 1.66 L78 RX RYS CLARS CREATED THE MAXITY DIGI-Key Set CPC1017NTR DIgi-Key CPC3008T-E/MLCT-ND 1.46 1 \$ 1.66 L78 RX RYS CLARS CREATED THE MAXITY DIGI-Key Set CPC1017NTR DIGI-Key Set CPC								1	
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C REG BOOST 38V 1.2A 6-WDFN			Texas Instruments	BQ25606RGER	Digi-Kev	296-47743-1-ND	3.83		\$ 3.83
IC REG LDO 80V ADJ 20MA SOT23-5									
RELAY SOLID STATE CPC1017N SPST 100mA								1	
IC VO EXPANDER I2C 8CH 20 QFN U5 Microchip MCP23008T-E/ML Digi-Key MCP23008T-E/MLCT-ND 1.46 1 \$ 1.46 IC BATT FUEL GAUGE LI-ION 14-DFN U6 Maxim MAX17260SETD+T Mouser 700-MAX17260SETD+T 3.18 1 \$ 3.18 IC REG BOOST 8A VQFN U7 Texas Instruments TPS6102ZRWUT Digi-Key 96-TPS6102ZRWUTCN 2.66 1 \$ 2.66 IC DCDC 0.8-6V 2A 8-uSIP U8 Texas Instruments TPS82084SILR Digi-Key 296-46279-1-ND 3.74 1 \$ 3.74 IC REG INV CHARGE PUMP ADJ 8-WSON U9 Texas Instruments LM27761DSGR Digi-Key 296-43791-ND 2.17 1 \$ 2.17 IC BATT PROT LI-ION 1-CELL SOT26 U10 Diodes AP9101CK6-AYTRG1 Digi-Key 9101CK6-AYTRG1DICT-I 0.59881 1 \$ 0.60 Digi-Key Digi-Key 1010K6-AYTRG1DICT-I 0.59881 1 \$ 0.60 Digi-Key Digi-Key 1010K6-AYTRG1DICT-I 0.59881 1 \$ 0.60 Digi-Key Digi-Key Digi-Key 1010K6-AYTRG1DICT-I 0.59881 1 \$ 0.60 Digi-Key Digi-Key Digi-Key 1010K6-AYTRG1DICT-I Digi-Key					,			1	•
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Total: \$ 79.19		U10					0.59881	1	
					T			Total:	









Design Rules Verification Report

Filename: C:\Users\Taiping\Documents\FYDP\mixr-hardware\MIXR Power\Layout\MIXR - Po

Warnings 0 Rule Violations 3

Warnings	
Total	0

Rule Violations	
Clearance Constraint (Gap=0.152mm) (All),(All)	0
Short-Circuit Constraint (Allowed=No) (All),(All)	0
Un-Routed Net Constraint ((All))	0
Modified Polygon (Allow modified: No), (Allow shelved: No)	0
Width Constraint (Min=0.154mm) (Max=2.54mm) (Preferred=0.2mm) (All)	0
Power Plane Connect Rule(Direct Connect)(Expansion=0.508mm) (Conductor Width=0.254mm) (Air Gap=0.254mm)	0
Power Plane Connect Rule(Relief Connect)(Expansion=0.5mm) (Conductor Width=0.2mm) (Air Gap=0.2mm)	0
Minimum Annular Ring (Minimum=0.12mm) (All)	0
Hole Size Constraint (Min=0.3mm) (Max=6.3mm) (All)	0
Hole To Hole Clearance (Gap=0.254mm) (All),(All)	0
Minimum Solder Mask Sliver (Gap=0.1mm) (Disabled)(All),(All)	0
Net Antennae (Tolerance=0mm) (All)	0
Board Clearance Constraint (Gap=0mm) (All)	3
Height Constraint (Min=0mm) (Max=30mm) (Prefered=12.7mm) (All)	0
Total	3

Board Clearance Constraint (Gap=0mm) (All)

Board Outline Clearance(Outline Edge): (Collision < 0.406mm) Between Board Edge And Track (40.525mm,79.475mm)(40.525mm,79.825mm) on Top

Board Outline Clearance(Outline Edge): (Collision < 0.406mm) Between Board Edge And Track (40.525mm,79.825mm)(49.475mm,79.825mm) on Top

Board Outline Clearance(Outline Edge): (Collision < 0.406mm) Between Board Edge And Track (49.475mm,79.475mm)(49.475mm,79.825mm) on Top

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