

Item	Reference Designator	Description	MFG	MFG P/N
1	ASP	HDR 6x2 ML .1"CTR 062 S GLD NPb	SAMTEC	TSW-106-07-G-D
2	AUX_IO BC CFG1 CFG2 CFG3 CFG4 CFG5 CIFM CS DIN1 DIN2 DIN3 DIN4 DIN5 DIN6 FS GND1 GND2 GND14 GND22 GND23 GND26 GND27 GND28 GND29 GND30 GND31 GND32 GND33 GND37 GND38 GND39 GND40 GND41 GND42 GND43 GND44 GND45 GND48 GND49 MCLK RST SCK SDI/SDA SDO/SCL VDD_5V VDD_A VDD_IO	HDR 1X1 ML 0.093 BRD 0.1"TAIL GLD NPb TH	AMP	77311-801-01LF
3	C1 C2 C4 C5	CAP 220UF ±20% 35V AL-ELEC CASE CL	NICHICON	UCV1V221MCL1GS
4	C3 C9 C12 C18 C22 C26 C29 C39	CAP 270pF ±1% 50V C0G NPb 0603	KEMET	C0603C271F5GACTU
5	C6 C11 C13 C17 C21 C23 C28 C30 C42 C43	CAP 10uF ±20% 35V X5R NPb 0603	MURATA	GRM188R6YA106MA73J
6	C7 C10 C14 C16 C20 C24 C27 C31 C41 C47 C78 C80 C83 C86	CAP 0.1uF ±5% 25V X7R NPb 0603	KEMET	C0603C104J3RAC
7	C8 C15 C25 C33	CAP 1000pF ±5% 50V C0G NPb 0805	KEMET	C0805C102J5GAC
8	C19 C32 C37	CAP 4.7uF ±10% 16V X7R NPb 0603	MURATA	GRM188Z71C475KE21D
9	C34 C35	CAP 22uF ±20% 16V X5R NPb 0603	SAMSUNG	CL10A226MO7JZNC
10	C36 C38	CAP 0.01uF ±10% 16V X7R NPb 0603	MURATA	GRM188R71C103KA01D
11	C40 C44 C50 C74 C79	CAP 1uF ±10% 16V X7R NPb 0603	KEMET	C0603C105K4RAC
12	C91 C98 C105 C112	CAP 47pF ±5% 50V C0G NPb 0805	KEMET	C0805C470J5GAC
13	CFG_ISO	HDR 4x3 ML .1"CTR 062 S GLD NPb	SAMTEC	TSW-104-07-G-T
14	CLK_GEN_SRC MCLK_SRC	HDR 3x2 ML V 0.1"CTR .093BD Au HT NPb TH	AMP	67997-206HLF
15	DCJ1 DCJ2 DCJ3 DCJ4	HDR30X2 HI-SPD ML 0.8mm POLY-PAD NPb SM	SAMTEC	ERM8-030-05.0-S-DV-K-TR
16	GND4 GND8 GND17 GND47	CON TEST PT .1"CTR TIN PLATE NPb BLK	KEYSTONE	5001
17	LNK-ASP	CON SHUNT 6X2 0.1"CTR BLACK NPb	SAMTEC	MNT-106-BK-G
18	LNK-CFG_ISO	CON SHUNT 4X2 0.1"CTR BLACK NPb	SAMTEC	MNT-104-BK-G
19	LNK-CLK_GEN_SR LNK-MCLK_SRC	CON SHUNT 2P 0.1"CTR YELLOW NPb	SAMTEC	SNT-100-YW-G
20	MH1 MH2 MH5 MH6	SPACER M2.5X10mm INSET F/F THR STEEL NPb	WURTH ELEKTRONIK	NP- 9774100151R
21	MH3 MH4	SPACER M2.5X10mm INSET F/F THR STEEL NPb	WURTH ELEKTRONIK	9774100151R
22	R1 R19 R22 R42 R43 R60 R62 R84	RES 2.7k OHM 1/10W ±1% NPb 0603	VISHAY	CRCW06032K70FKEA
23	R2 R6 R8 R9 R11 R12 R13 R14 R15 R16 R18 R20	RES 0 OHM 1/10W NPb 0603 FILM	DALE	CRCW06030000Z0EA
24	R7 R10 R28 R31 R37 R49 R52 R71 R75	RES 100 OHM 1/10W ±0.1% NPb 0603	SUSUMU	RG1608P-101-B-T5
25	R85 R182 R186 R187	RES 10k OHM 1/10W ±1% NPb 0603 FILM	DALE	CRCW060310K0FKEA
26	R92 R94	RES 33 OHM 1/10W ±5% NPb 0603 FILM	DALE	CRCW060333R0JNEA
27	R185	RES 4.7k OHM 1/10W ±5% NPb 0603 FLM	DALE	CRCW06034K70JNEA
28	U1 U2 U4 U5	IC OPAMP AUD 2 CRCT RR SOIC8	TEXAS INSTRUMENTS	OPA1656ID
29	U3	IC OPAMP AUDIO 80MHZ NPb SOIC8	TEXAS INSTRUMENTS	OPA1611AID
30	U6	IC CRS HIGH PERF 4CH DAC QFN48	CIRRUS LOGIC	CS4304S-CNR/A0
31	U12	IC SWITCH ANALOG 4PDT NPb HXQFN16	NXP	NX3DV2567HR,115
32	U13	IC EEPROM 512Kb SER 1MHz NPb UDFN8	ATMEL	AT24C512C-MAHM-E
33	Y2	OSC XO 22.5792MHZ 30ppm 1.71V-3.63V SMD4	KYOCERA	KC3225Z22.5792C15XXK
34	Y3	OSC XO 24.576MHZ 20ppm 1.71V-3.63V SMD4	KYOCERA	KC3225Z24.5760C1KX00
DO NOT POPULATE				
35	MH1 MH2 MH5 MH6	SPACER M2.5X10mm INSET F/F THR STEEL NPb	WURTH ELEKTRONIK	NP- 9774100151R
36	C45 C69	CAP 1uF ±10% 16V X7R NPb 0603	KEMET	NP-C0603C105K4RAC
37	C46 C48 C49 C52 C53 C54 C55 C56 C57 C58 C59 C60 C61 C62 C65 C66 C67 C70 C71 C72 C73 C75 C76 C77 C81 C82 C84 C85 C87 C88 C89 C90 C92 C93 C94 C95 C96 C97 C99 C100 C101 C102 C103 C104 C106 C107 C108 C109 C110 C111 C113 C114 C115 C116 C117 C118 C119 C120 C121 C122 C123 C124 C125 C126 C127 C128 C129 C130 C131 C132 C133 C134 C135 C136 C137 C138 C139 C140 C141 C142	NO POP CAP NPb 0603	NO POP	NP-CAP-0603

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38	C51	CAP 4.7uF ±10% 16V X7R NPb 0603	MURATA	NP-GRM188Z71C475KE21D
39	C63 C64	CAP 39pF ±5% 50V C0G NPb 0603	KEMET	NP-C0603C390J5GAC
40	C68	CAP 0.1uF ±5% 25V X7R NPb 0603	KEMET	NP-C0603C104J3RAC
41	GND3 GND5 GND6 GND7 GND9 GND10 GND11 GND12 GND13 GND15 GND16 GND18 GND19 GND20 GND21 GND24 GND25 GND34 GND35 GND36 GND46 J1 J2 J3 J4 J5 J6 J7 J8 J9 J10 J11 J12 J13 J14 J15 J16 J17 J18 J19 J20 LDO_A LDO_D VDD_A2 VDD_D VOUT1N VOUT1P VOUT2N VOUT2P VOUT3N VOUT3P VOUT4N VOUT4P VOUT5N VOUT5P VOUT6N VOUT6P VOUT7N VOUT7P VOUT8N VOUT8P	HDR 1X1 ML 0.093 BRD 0.1"TAIL GLD NPb TH	AMP	NP-77311-801-01LF
42	R3 R4 R5 R17 R24 R25 R26 R39 R45 R46 R47 R64 R65 R66 R135 R137 R142 R144 R169 R170 R198 R203 R215 R220 R225 R226 R231 R235 R247 R252 R257 R258 R263 R267 R279 R284 R289 R290 R295 R299 R308 R312	RES 0 OHM 1/10W NPb 0603 FILM	DALE	NP-CRCW06030000Z0EA
43	R21 R86 R88 R89 R90 R91 R93 R95 R96 R97 R103 R104 R105 R106 R107 R108 R111 R112 R113 R114 R116 R117 R118 R119 R120 R121 R122 R123 R124 R125 R126 R127 R128 R129 R130 R131 R132 R133 R134 R136 R138 R139 R140 R141 R143 R145 R146 R147 R148 R149 R150 R151 R152 R153 R154 R155 R156 R157 R158 R159 R160 R161 R162 R163 R164 R165 R166 R167 R168 R171 R172 R175 R176 R177 R179 R180 R181 R191 R192 R193 R194 R196 R199 R200 R201 R202 R208 R209 R210 R211 R213 R216 R217 R218 R219 R227 R228 R229 R230 R232 R233 R234 R240 R241 R242 R243 R245 R248 R249 R250 R251 R255 R256 R259 R260 R261 R262 R264 R265 R266 R268 R269 R270 R271 R272 R273 R274 R275 R276 R277 R278 R280 R281 R282 R283 R285 R286 R287 R288 R291 R292 R293 R294 R296 R297 R298 R300 R301 R302 R303 R304 R305 R306 R307 R309 R310 R311 R313 R314	NO POP RES NPb 0603	NO POP	NP-RES-0603
44	R178 R183 R188	RES 10k OHM 1/10W ±1% NPb 0603 FILM	DALE	NP-CRCW060310K0FKEA
45	R184	RES 4.7k OHM 1/10W ±5% NPb 0603 FLM	DALE	NP-CRCW06034K70JNEA
46	U7 U8 U10 U11	IC OPAMP AUD 2 CRCT RR SOIC8	TEXAS INSTRUMENTS	NP-OPA1656ID
47	U9	IC CRS NOLAN TSMC 55LP TSSOP10	CIRRUS LOGIC	NP-CS2500-DZ/B0
48	U14 U15 U16 U17 U18 U19 U20 U21	IC OPAMP DIFF 1 CRCT NPb VSSOP8	TEXAS INSTRUMENTS	NP-OPA1637DGKR
49	Y1	XTL 12.0000MHz 8pF 15ppm SMD4	ECS	NP-ECS-120-8-33Q-RES-TR