

Item	Reference Designator	Description	MFG	MFG P/N
1	ASP	HDR 4x2 ML V 0.1"CTR .093BD Au HT NPb TH	AMP	67997-208HLF
2	AUX_IO BC CFG1 CFG2 CFG3 CFG4 CFG5 C1FM CS DIN1 DIN2 DOUT1 DOUT2 FS GND2 GND3 GND4 GND5 GND6 GND7 GND8 GND9 GND10 GND11 GND12 GND13 GND14 GND15 GND16 GND17 GND18 GND19 GND22 GND23 GND24 GND25 GND26 GND27 MCLK RST SCK SDI/SDA SDO/SCL VDD_5V VDD_IO	HDR 1X1 ML 0.093 BRD 0.1"TAIL GLD NPb TH	AMP	77311-801-01LF
3	C1 C8 C15 C22 C90 C91 C329 C330 C370 C371 C372 C373	CAP 220UF ±20% 35V AL-ELEC CASE CL	NICHICON	UCV1V221MCL1GS
4	C2 C11 C18 C25 C48 C49	CAP 680pF ±1% 50V C0G NPb 0603	KEMET	C0603C681F5GAC
5	C3 C14 C16 C28 C35 C44 C46 C50 C83 C93 C95 C184 C239 C243 C249 C258 C260 C263	CAP 10uF ±20% 35V X5R NPb 0603	MURATA	GRM188R6YA106MA73J
6	C4 C13 C17 C27 C33 C41 C45 C47 C74 C79 C81 C92 C94 C113 C135 C143 C185 C223 C229 C234 C242 C250 C251 C262 C422	CAP 0.1uF ±5% 25V X7R NPb 0603	KEMET	C0603C104J3RAC
7	C5 C10 C19 C24	CAP 68uF ±20% 25V Al ELEC NPb RAD	WURTH ELEKTRONIK	865080443009
8	C6 C9 C20 C23 C103 C104	CAP 100pF ±1% 50V C0G NPb 0603	KEMET	CBR06C101F5GAC
9	C7 C21	CAP 0.015uF ±5% 50V C0G NPb 0805	MURATA	GRM2195C1H153JA01D
10	C29 C31 C56 C176 C191	CAP 4.7uF ±10% 16V X7R NPb 0603	MURATA	GRM188Z71C475KE21D
11	C30 C32	CAP 0.01uF ±10% 16V X7R NPb 0603	MURATA	GRM188R71C103KA01D
12	C34	CAP 220uF ±20% 35V AL-ELEC CASE F	PANASONIC	EEE-FN1V221V
13	C51 C57 C59 C65 C67 C70 C85 C86 C87 C96 C97 C98 C108 C109 C322 C323	CAP 100uF ±20% 35V Al ELEC NPb RAD	WURTH ELEKTRONIK	865080545012
14	C58	CAP 0.47uF ±10% 25V X7R NPb 0603	SAMSUNG	CL10B474KA8NFNC
15	C61 C62	CAP 0.015uF ±20% 25V C0G 0603	KEMET	C0603C153M3GEC7411
16	C68	CAP 2.2uF ±10% 10V X7R NPb 0603	MURATA	GRM188R71A225KE15D
17	C69	CAP 0.22uF ±10% 25V X7R NPb 0603	TDK	C1608X7R1E224K080AC
18	C71 C72 C267 C270	CAP 1800pF ±1% 50V C0G 0603i	MURATA	GCM1885C1H182FA16J
19	C73 C110 C111 C112 C221 C222 C254	CAP 12pF ±5% 50V C0G NPb 0603	MURATA	QH-GRM1885C1H120JA01D
20	C80 C82 C230 C231 C245	CAP 1uF ±10% 16V X7R NPb 0603	KEMET	C0603C105K4RAC
21	C88 C89 C336 C337	CAP 2400pF ±5% 50V C0G 0603	KEMET	C0603C242J5GAC7867
22	C118 C121	CAP 1000pF ±1% 50V C0G NPb 0603	TDK	C1608C0G1H102F080AA
23	C136 C137	CAP 1200pF ±5% 50V C0G NPb 0603	TDK	C1608C0G1H122J080AA
24	C232 C233	CAP 22uF ±20% 16V X5R NPb 0603	SAMSUNG	CL10A226MO7JZNC
25	C247 C248 C264 C265 C302 C304	CAP 620pF ±1% 100V C0G NPb 0603	MURATA	GCM1885C2A621FA16J
26	C252 C279 C301 C303	CAP 1500pF ±5% 50V C0G NPb 0603	MURATA	GRM1885C1H152JA01D
27	CFG_ISO	HDR 4x3 ML .1"CTR 062 S GLD NPb	SAMTEC	TSW-104-07-G-T
28	CLK_GEN_SRC J26 J27 J29 J30 MCLK_SRC	HDR 3x2 ML V 0.1"CTR .093BD Au HT NPb TH	AMP	67997-206HLF
29	D8 D9	DIO TVS 17V 24VWM DFN1006-2	NEXPERIA	PESD24VF1BLYL
30	DCJ1 DCJ2 DCJ3 DCJ4	HDR30X2 HI-SPD ML 0.8mm POLY-PAD NPb SM	SAMTEC	ERM8-030-05.0-S-DV-K-TR
31	GND40 GND41 GND42 GND43	CON TEST PT .1"CTR TIN PLATE NPb BLK	KEystone	5001

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32	J14	JACK PHNE RA FML 3COND 6CONT 6.35MM SM	AMPHENOL	ACJS-MHOM
33	L1 L2 L3	FE BEAD 1.7A 330OHM .08DCR NPb 0603	MURATA	QH-BLM18KG331SN1
34	LNK-1 LNK-2 LNK-J26 LNK-J27 LNK-J29 LNK-J30	CON SHUNT 2P 0.1"CTR YELLOW NPb	SAMTEC	SNT-100-YW-G
35	LNK-ASP_SRC1 LNK-ASP_SRC2	CON SHUNT 4X2 0.1"CTR BLACK NPb	SAMTEC	MNT-104-BK-G
36	MH3 MH4	SPACER M2.5X10mm INSET F/F THR STEEL NPb	WURTH ELEKTRONIK	9774100151R
37	R1 R2 R5 R7 R10 R11 R13 R16 R17 R18 R20 R22 R26 R27 R28 R31 R34 R37 R38 R40 R42 R45 R46 R47 R49 R50 R55 R56 R57 R60 R62 R63 R64 R65 R68 R69 R83 R84 R85 R86 R97 R98 R99 R100 R101 R102 R104 R105 R110 R112 R142 R148 R161 R162 R163 R165 R202 R274 R280 R334 R343 R349 R353 R359 R360 R363 R364 R365 R366 R367 R379 R397 R401 R439	RES 0 OHM 1/10W NPb 0603 FILM	DALE	CRCW06030000Z0EA
38	R3 R4 R21 R25 R33 R51	RES 10 OHM 1/16W ±0.1% NPb 0603	BOURNS	QH-CRT0603-BY-10R0ELF
39	R8 R19 R35 R48	RES 47k OHM 1/10W ±5% NPb 0603 FILM	DALE	CRCW060347K0JNEA
40	R9 R15 R30 R36 R44 R54 R59 R61	RES 200 OHM 1/10W ±0.1% THIN NPb 0603	PANASONIC	ERA-3AEB201V
41	R12 R14 R41 R43	RES 820 OHM 1/10W ±0.1% 0603i THIN	PANASONIC	ERA-3AEB821V
42	R71 R72 R73 R74 R75 R77 R78 R79 R80 R81 R82 R94 R95 R117 R118 R122 R123 R201 R204 R228 R351 R390	RES 10k OHM 1/10W ±1% NPb 0603 FILM	DALE	CRCW060310K0FKEA
43	R87 R88 R89 R90 R275	RES 1 OHM 1/8W ±1% NPb 0603 THIN FILM	VISHAY	MCT06030C1008FP500
44	R93 R107 R266 R388	RES 1.5K OHM 1/10W ±0.1% THIN NPb 0603	PANASONIC	NS-ERA-3AEB152V
45	R108 R109 R111 R125 R131 R132 R154 R155 R338 R339 R340 R341 R345 R381 R383 R449 R450	RES 100 OHM 1/10W ±0.1% NPb 0603	SUSUMU	RG1608P-101-B-T5
47	R119 R133 R135 R352 R358	RES 33 OHM 1/10W ±5% NPb 0603 FILM	DALE	CRCW060333R0JNEA
48	R134 R138 R380 R382 R403 R412 R440 R441	RES 1.2K OHM 1/10W ±0.1% NPb 0603 THIN FILM	PANASONIC	ERA-3AEB122V
49	R136 R137 R268 R393 R394 R395 R396 R398 R399 R400 R404 R413	RES 330 OHM 1/10W ±0.1% NPb 0603 THIN FILM	PANASONIC	ERA-3AEB331V
50	R224	RES 4.7k OHM 1/10W ±5% NPb 0603 FLM	DALE	CRCW06034K70JNEA
51	U1 U2 U3 U4 U7 U8 U16 U22 U24	IC OPAMP AUD 2 CRCT RR SOIC8	TEXAS INSTRUMENTS	OPA1656ID
52	U6	IC CRS HIGH PERF 2CH CODEC QFN48	CIRRUS LOGIC	CS4282P-CNR/A0
53	U9	IC SWITCH ANALOG 4PDT NPb HXQFN16	NXP	NX3DV2567HR,115
54	U11	IC EEPROM 512Kb SER 1MHz NPb UDFN8	ATMEL	AT24C512C-MAHM-E
55	Y1	OSC XO 22.5792MHz 50ppm 1.6V-3.63V SMD4	KYOCERA	KC3225K22.5792C1GE00
56	Y3	OSC XO 24.576MHZ 20ppm 1.71V-3.63V SMD4	KYOCERA	KC3225Z24.5760C1KX00
57	ZZ99	PCB	CIRRUS LOGIC	240-11577/C0
DO NOT POPULATE				
58	C12 C26 C102 C105 C106	CAP 0.01uF ±10% 16V X7R NPb 0603	MURATA	NP-GRM188R71C103KA01D
59	C36 C37 C39 C40 C60 C63 C64 C66 C100 C101	CAP 100pF ±1% 50V C0G NPb 0603	KEMET	NP-CBR06C101F5GAC
60	C38 C43 C240 C261	CAP 0.015uF ±5% 50V C0G NPb 0805	MURATA	NP-GRM2195C1H153JA01D
61	C42	CAP 220uF ±20% 35V AL-ELEC CASE F	PANASONIC	NP-EEE-FN1V221V

Item	Reference Designator	Description	MFG	MFG P/N
62	C52 C53 C54 C55	CAP 10pF ±1% 50V C0G NPb 0603	AVX	NP-06035U100FAT2A
63	C75	CAP 0.1uF ±5% 25V X7R NPb 0603	KEMET	NP-C0603C104J3RAC
64	C76 C244	CAP 1uF ±10% 16V X7R NPb 0603	KEMET	NP-C0603C105K4RAC
65	C77 C78	CAP 39pF ±5% 50V C0G NPb 0603	KEMET	NP-C0603C390J5GAC
66	C84 C99 C107 C235	CAP 12pF ±5% 50V C0G NPb 0603	MURATA	NP-QH-GRM1885C1H120JA01D
67	C114 C115	CAP 680pF ±1% 50V C0G NPb 0603	KEMET	NP-C0603C681F5GAC
68	C116 C117 C124 C125	CAP 330pF ±1% 50V C0G NPb 0603	KEMET	NP-C0603C331F5GACTU
69	C119 C120 C122 C123 C126 C127 C268 C269	CAP 1800pF ±1% 50V C0G 0603i	MURATA	NP-GCM1885C1H182FA16J
70	C139 C140 C141 C142	CAP 1200pF ±5% 50V C0G NPb 0603	TDK	NP-C1608C0G1H122J080AA
71	C220	CAP 47uF ±20% 10V X5R MLCC NPb 0805	MURATA	NP-GRM21BR61A476ME15L
72	C246	CAP 4.7uF ±10% 16V X7R NPb 0603	MURATA	NP-GRM188Z71C475KE21D
73	GND1 GND20 GND21 GND28 GND29 GND30 GND31 GND34 GND35 GND36 GND37 GND38 GND39 GND44 GND45 GND46 GND47 J1 J4 J5 J6 J7 J8 J9 J10 J11 J13 J16 J18 J19 J20 J21 J23 J43 J143 J144 J145 J146 LDO_A LDO_D VDD_A2 VDD_D VOUT1N VOUT1P VOUT2N VOUT2P VOUT3N VOUT3P VOUT4N VOUT4P	HDR 1X1 ML 0.093 BRD 0.1"TAIL GLD NPb TH	AMP	NP-77311-801-01LF
74	R199 R200 R203	RES 10k OHM 1/10W ±1% NPb 0603 FILM	DALE	NP-CRCW060310K0FKEA
75	R227	RES 4.7k OHM 1/10W ±5% NPb 0603 FLM	DALE	NP-CRCW06034K70JNEA
76	U5	IC CRS NOLAN TSMC 55LP TSSOP10	CIRRUS LOGIC	NP-CS2500-DZ/B0
77	R6 R23 R24 R29 R32 R39 R52 R53 R58 R66 R67 R70 R76 R103 R106 R113 R114 R115 R116 R120 R124 R127 R129 R198 R205 R219 R220 R221 R222 R223 R229 R230 R231 R242 R244 R255 R256 R269 R287 R293 R313 R335 R346 R350 R354 R361 R362 R369 R374 R423 R454	RES 0 OHM 1/10W NPb 0603 FILM	DALE	NP-CRCW06030000Z0EA
78	J28	HDR 3X1 ML V 0.093 0.1"CTR Au NPb TH	AMP	NP-77311-801-03LF
79	GND1 GND20 GND21 GND28 GND29 GND30 GND31 GND34 GND35 GND36 GND37 GND38 GND39 GND44 GND45 GND46 GND47 J1 J4 J5 J6 J7 J8 J9 J10 J11 J13 J16 J18 J19 J20 J21 J23 J43 J143 J144 J145 J146 LDO_A LDO_D VDD_A2 VDD_D VOUT1N VOUT1P VOUT2N VOUT2P VOUT3N VOUT3P VOUT4N VOUT4P	HDR 1X1 ML 0.093 BRD 0.1"TAIL GLD NPb TH	AMP	NP-77311-801-01LF
80	MH1 MH2 MH5 MH6	SPACER M2.5X10mm INSET F/F THR STEEL NPb	WURTH ELEKTRONIK	NP- 9774100151R
81	Y2	XTL 12.000MHz 20pF 10ppm SMD4	ABRACON	NP-ABM8-12.000MHZ-20-B1U-T