

PARTS LIST - IP8HPV PWA
ENGRG DWG PL502-80270-51



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ITEM	QTY	REF DES	PART NUMBER	MFR	VENDOR	DESCRIPTION	IPMN NUMBER
1	1	-	502-80271 A	IPMN	IPMN	PWB, IP8HPV REV "A"	502-80271A
2	7	CS1,DGND,RSSI1,RSSI2, RXMOD1,RXMOD2,TP1	5015	KSTONE	DIGIKEY	TEST POINT MINI SMT .105"Lx.040"Wx.060"H	101-0002-001
3	1	CR1	BAT54A	ZETEX	DIGIKEY	DIODE DUAL SCHOTTKY BARRIER SOT-23	114-0069-001
4	3	CR2,3,4	MA4P1250	MA-COM	AVNET	DIODE PIN SMT LO-DISTORTION 1072	114-0071-001
5	2	CV1,C159	GKP20066	SPRAGUE	DIGIKEY	CAP SMT TRIM 4.5-20PF 2.2x3.1x1.2mm	110-0198-004
6	4	C1,7,11,17	ECU-V1H471KBV	PANA	DIGIKEY	CAP SMT CER 470PF 50V 10% 0603	110-0174-471
7	18	C2,8,12,18,43,52, C53,58,63,66,69, C71,72,85,88,98, C123,140	ECU-V1H101JCV	PANA	DIGIKEY	CAP SMT CER 100PF 50V 5% 0603	110-0174-101
8	2	C3,13	ECU-V1H470JCV	PANA	DIGIKEY	CAP SMT CER 47PF 50V 5% 0603	110-0174-470
9	17	C4,14,42,44,48, C55,60,67,73, C76,79,86,89,91, C122,139,154	ECU-V1H102KBV	PANA	DIGIKEY	CAP SMT CER 1000PF 50V 10% 0603	110-0174-102
10	2	C5,15	GMC10CG3R3B50	CALCHIP	-	CAP SMT CER 3.3PF 50V +/- .1pF 0603	110-0207-3R3
11	4	C6,16,121,160	ECU-V1H100DCV	PANA	DIGIKEY	CAP SMT CER 10PF 50V .5pF 0603	110-0174-100
12	2	C9,19	ECU-V1H4R7CCM	PANA	DIGIKEY	CAP SMT CER 4.7PF 50V +/- .25pF 1206	110-0182-4R7
13	17	C10,20,65,68,74, C77,80,95,124,126, C129,141,143,145, C155,158,162	ECU-V1H103KBV	PANA	DIGIKEY	CAP SMT CER .01UF 50V 10% 0603	110-0174-103
14	2	C21,92	ECS-T1AD476R	PANA	DIGIKEY	CAP SMT TANT 47UF 10V 10% SIZE D	110-0173-476
15	41	C22,24,25,27,31, C35-37,39-41,93, C94,101,102,108, C110-115,118, C119,130-138, C146-153	GRM39Y5V104Z16	MURATA	TIME	CAP SMT MONO CER .1UF 16V +80-20% 0603	110-0189-104
16		C23,70,83,144				NOT INSTALLED	
17	2	C26,38	ECU-V1H121JCV	PANA	DIGIKEY	CAP SMT CER 120PF 50V 5% 0603	110-0174-121
18	2	C28,29	ECU-V1H472KBV	PANA	DIGIKEY	CAP SMT CER 4700PF 50V 10% 0603	110-0174-472
19	1	C30	ECU-V1H820JCV	PANA	DIGIKEY	CAP SMT CER 82PF 50V 10% 0603	110-0174-820

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20	1	C32	ECU-V1H390JCV	PANA	DIGIKEY	CAP SMT CER 39PF 50V 5% 0603	110-0174-390
21	2	C33,34	ECU-V1H180JCV	PANA	DIGIKEY	CAP SMT CER 18PF 50V 5% 0603	110-0174-180
22	5	C45-47,54,59	ECU-V1E223KBV	PANA	DIGIKEY	CAP SMT CER .022UF 25V 10% 0603	110-0174-223
23	2	C49,56	ECS-T1CY335R	PANA	DIGIKEY	CAP SMT TANT 3.3UF 16V 10% SIZE A	110-0194-335
24	1	C50	ECU-V1H153KBV	PANA	DIGIKEY	CAP SMT CER .015UF 50V 10% 0603	110-0174-153
25	1	C51	ECS-T1VY104R	PANA	DIGIKEY	CAP SMT TANT .1UF 35V 10% SIZE A	110-0183-104
26	2	C57,163	ECU-V1H221JCV	PANA	DIGIKEY	CAP SMT CER 220PF 50V 5% 0603	110-0174-221
27	1	C61	ECS-H1CD336R	PANA	DIGIKEY	CAP SMT TANT 33UF 16V 5% SIZE D	110-0194-336
28	5	C62,105,106,107, C109	ECS-T1AP105R	PANA	DIGIKEY	CAP SMT TANT 1UF 10V 10% SIZE P (=A)	110-0199-105
29	1	C64	ECU-V1H1R5CCV	PANA	DIGIKEY	CAP SMT CER 1.5PF 50V +/- .25pF 0603	110-0174-1R5
30	4	C75,78,81,156	GRM426Y5V105Z16	MURATA	TIME	CAP SMT MONO CER 1UF 16V +80-20% 1206	110-0175-105
31	1	C82	GMC21CG2R7B50	CALCHP		CAP SMT CER 2.7PF 50V +/-0.1pF 0805	110-0177-2R7
32	2	C84,C90	GMC21CG101J50	CALCHP	-	CAP SMT CER 100pF 50V 5% 0805	110-0177-101
33	1	C87	ATC100B471JP200X	ATC	-	CAP SMT CER 470PF 200V 5% ATC SIZE B	110-0206-471
34	1	C96	GMC21Y5V225Z16	CALCHP	-	CAP SMT CER DIEL 2.2UF 16V +80-20% 0805	110-0210-225
35	1	C97	ECJ-1VF1H473Z	PANA	DIGIKEY	CAP SMT CER .047UF 50V +80-20% 0603	110-0174-473
36	2	C99,C157	ECS-T1VY154R	PANA	DIGIKEY	CAP SMT TANT .15UF 35V 10% SIZE A	110-0183-154
37	2	C100,104	594D337X96R3D2T	VISHAY	-	CAP SMT TANT 330UF 6.3V 10% SIZE D	110-0209-337
38	3	C103,125,142	GMC32Y5V226Z16	CALCHP	-	CAP HI-DIE 22UF 16V +80-20% SIZE 1210	110-0181-226
39	2	C116,C117	ECU-V1H220JCV	PANA	DIGIKEY	CAP SMT CER 22PF 50V 5% 0603	110-0174-220
40	2	C120,C161	ECU-V1H821KBV	PANA	DIGIKEY	CAP SMT CER 820PF 50V 10% 0603	110-0174-821
41	1	C127	ATC100A101FW150	ATC	-	CAP PWR SMT 100PF 150V 1% ATC SIZE A	110-0208-101
42	1	D1	SMBJ15A	G-SEMI	DIGIKEY	TVS SMD UNI 600W 15V J-BEND DO-214AA	114-0068-002
43	1	D2	MBRS130T3	MOTO	-	RECTIFIER SCHOTTKY POWER 1A 30V J-BEND	114-0075-001
44	2Pr	FLT1/2,FLT3/4	FOX 45F20B	FOX	-	FILTER MONO 45MHz MATCHED-PAIR HC80x2	127-0014-002
45	2	FLT5,FLT6	CDBM455C9	MURATA		FILTER CERAMIC SMT 455MHz	127-0018-001
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47	2	FL1,FL3	DFC3R860P019HHB	MURATA	TIME	FILTER BAND-PASS CER SMT FREQ 860MHz	127-0023-001
48	2	FL2,FL4	SAFC860.5MA70N	MURATA	TIME	FILTER SAW SMT 860.5MHz	127-0017-001
49	4	FL5-FL8	SFGCG455DX	MURATA	TIME	FILTER CER SMT 455KHz	127-0015-001
50	1	J1	712RA	SWCRAFT	MOUSER	JACK POWER LOCKING R/A S/BUSHING	124-0599-002
51	1	J2	22-05-7085	MOLEX	-	CONN HDR 8 CKT R/A FULLY SHROUDED	124-0604-108
52	1	J3	56-404-001	SPECTR	-	CONN DB9 FEMALE PCB MT R/A W/Bd-LOCKS	124-0558-007
53	1	LED1	MV34509-MP7	FAIRCH	-	LED PCB MT GRN R/A 5V 2mA	116-0119-001
54	2	L1,L4	LL1608-F15NK	TOKO	DIGIKEY	INDUCTOR SMT 15.0nH 10% 300mA 0603	128-0106-004
55	2	L2,L5	LL1608-F12NK	TOKO	DIGIKEY	INDUCTOR SMT 12.0nH 3% 200mA 0603	128-0106-010
56	3	L3,L6,L9	LL1608-F8N2S	TOKO	DIGIKEY	INDUCTOR SMT 8.2nH.3nH 300mA 0603	128-0106-003
57	2	L7,L10	0805CS-101XJB	COIL-C	-	INDUCTOR SMT 100nH 5% 400mA 0805CS	128-0118-001
58	1	L8	LL1608-F6N8K	TOKO	DIGIKEY	INDUCTOR SMT 6.8nH 350mA 0603	128-0106-014
59	1	L11	AO3TJ	COIL-C	-	IND MINI SPRING AIR-CORE 8nH 150MHz 4A	128-0105-003
60	1	L12	1008CS-331XJBB	COIL-C	-	INDUCTOR SMT 330nH 5% 310mA 1008CS	128-0119-001
61	1	L13	CR54-330	SUMIDA	-	INDUCTOR SMT POWER 33uH 20% .88A CR54	128-0125-330
62	1	L14	DT1608C-334	COIL-C	-	INDUCTOR SMT POWER 330uH 20% .16A DT1608	128-0120-002
63	2	L15,L16	1008CS-122XJBB	COIL-C	-	INDUCTOR SMT 1.2uH 5% 310mA 1008CS	128-0119-002
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65	5	Q1,Q4-Q7	FMMT2222A	ZETEX	DIGIKEY	TSTR SWITCHING NPN 330mW SOT-23	136-0066-001
66	1	Q3	IRF4905S	I.RECT	DIGIKEY	IC PWR MOSFET P-CHANNEL D2PAK	162-0596-002
67	3	RV1,RV2,R33	EVN-5ESX50B15	PANA	DIGIKEY	POT TRIMMER SMT 100K .05W 30% 3mm SQ	138-0075-104
68	2	R1,R5	ERJ-3GSYJ121V	PANA	DIGIKEY	RES SMT THK FILM 120 5% 1/16W 0603	138-0074-121
69	3	R2,6,40	ERJ-3GSYJ392V	PANA	DIGIKEY	RES SMT THK FILM 3.9K 5% 1/16W 0603	138-0074-392
70	4	R3,7,76,89	ERJ-3GSYJ621V	PANA	DIGIKEY	RES SMT THK FILM 620 5% 1/16W 0603	138-0074-621
71	11	R4,8,13,15,16, R35,36,44,45, R78,90	ERJ-3GSYJ0R0V	PANA	DIGIKEY	RES SMT THK FILM 0 Ohm 5% 1/16W 0603	138-0074-0R0
72	2	R14,R19	ERJ-3GSYJ105V	PANA	DIGIKEY	RES SMT THK FILM 1M 5% 1/16W 0603	138-0074-105
73	2	R17,25	ERJ-3GSYJ473V	PANA	DIGIKEY	RES SMT THK FILM 47K 5% 1/16W 0603	138-0074-473

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74	5	R18,79,80,91,92	ERJ-3GSYJ204V	PANA	DIGIKEY	RES SMT THK FILM 200K 1/16W 5% 0603	138-0074-204
75	10	R20,21,31,32, R50,52,54,83, R94,110	ERJ-3GSYJ104V	PANA	DIGIKEY	RES SMT THK FILM 100K 1/16W 5% 0603	138-0074-104
76	5	R22,56,72-74	ERJ-3GSYJ102V	PANA	DIGIKEY	RES SMT THK FILM 1K 1/16W 5% 0603	138-0074-102
77	1	R23	ERJ-3GSYJ154V	PANA	DIGIKEY	RES SMT THK FILM 150K 1/16W 5% 0603	138-0074-154
78	2	R24,39	ERJ-3GSYJ221V	PANA	DIGIKEY	RES SMT THK FILM 220 Ohm 1/16W 5% 0603	138-0074-221
79	2	R26,30	ERJ-3GSYJ513V	PANA	DIGIKEY	RES SMT THK FILM 51K 1/16W 5% 0603	138-0074-513
80	1	R27	ERJ-3GSYJ203V	PANA	DIGIKEY	RES SMT THK FILM 20K1/16W 5% 0603	138-0074-203
81	16	R28,29,34,43, R53,63-67,69, R71,87,98,106, R107	ERJ-3GSYJ103V	PANA	DIGIKEY	RES SMT THK FILM 10K 1/16W 5% 0603	138-0074-103
82		R37				NOT INSTALLED (REF)	
83	1	R38	ERJ-3GSYJ622V	PANA	DIGIKEY	RES SMT THK FILM 6.2K 1/16W 5% 0603	138-0074-622
84	1	R41	ERJ-3GSYJ510V	PANA	DIGIKEY	RES SMT THK FILM 51 Ohm 1/16W 5% 0603	138-0074-510
85	1	R42	ERJ-3GSYJ912V	PANA	DIGIKEY	RES SMT THK FILM 9.1K 1/16W 5% 0603	138-0074-912
86	1	R46	ERJ-3GSYJ820V	PANA	DIGIKEY	RES SMT THK FILM 82 Ohm 1/16W 5% 0603	138-0074-820
87	1	R47	ERJ-8ENF1000V	PANA	DIGIKEY	RES SMT THK FILM 100 Ohm 1/8W 1% 1206	138-0080-014
88	1	R51	ERJ-3GSYJ304V	PANA	DIGIKEY	RES SMT THK FILM 300K 1/16W 5% 0603	138-0074-304
89	1	R55	ERJ-3GSYJ562V	PANA	DIGIKEY	RES SMT THK FILM 5.6K 1/16W 5% 0603	138-0074-562
90	1	R57	ERJ-14YJ470	PANA	DIGIKEY	RES SMT THK FILM 47 Ohm 1/4W 5% 1210	138-0077-470
91	10	R58,59,60,61, R62,68,70,109, R111,112	ERJ-3GSYJ472V	PANA	DIGIKEY	RES SMT THK FILM 4.7K 1/16W 5% 0603	138-0074-472
92	2	R75,R88	ERJ-3GSYJ182V	PANA	DIGIKEY	RES SMT THK FILM 1.8K 1/16W 5% 0603	138-0074-182
93	2	R77,R108	ERJ-3GSYJ153V	PANA	DIGIKEY	RES SMT THK FILM 15K 1/16W 5% 0603	138-0074-153
94	2	R81,R99	EVN-5ESX50B16	PANA	DIGIKEY	POT TRIMMER SMT 1M .05W 30% 3mm SQ	138-0075-105
95	2	R82,R93	EVN-5ESX50B14	PANA	DIGIKEY	POT TRIMMER SMT 10K .05W 30% 3mm SQ	138-0075-103
96	2	R84,R95	ERJ-3GSYJ623V	PANA	DIGIKEY	RES SMT THK FILM 62K 1/16W 5% 0603	138-0074-623
97	2	R85,R96	ERJ-3GSYJ242V	PANA	DIGIKEY	RES SMT THK FILM 2.4K 1/16W 5% 0603	138-0074-242

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98	2	R86,R97	ERJ-3GSYJ332V	PANA	DIGIKEY	RES SMT THK FILM 3.3K 1/16W 5% 0603	138-0074-332
99	1	R100	ERJ-3GSYJ0R0V	PANA	DIGIKEY	RES SMT THK FILM 0 Ohm 1/16W 5% 0603	138-0074-0R0
100	1	R101	ERJ-3GSYJ243V	PANA	DIGIKEY	RES SMT THK FILM 24K 1/16W 5% 0603	138-0074-243
101	1	R104	ERJ-3GSYJ101V	PANA	DIGIKEY	RES SMT THK FILM 100 Ohm 1/16W 5% 0603	138-0074-101
102	1	R105	ERJ-8GEYJ0R0V	PANA	DIGIKEY	RES SMT THK FILM 0 Ohm 1/8W 5% 1206	138-0090-0R0
103	1	R113	ERJ-8GEYJ510V	PANA	DIGIKEY	RES SMT THK FILM 51 Ohm 1/8W 5% 1206	138-0090-510
104	2	R114,R115	ERJ-3GSYJ330V	PANA	DIGIKEY	RES SMT THK FILM 33 Ohm 1/16W 5% 0603	138-0074-330
105	1	R116	ERJ-3GSYJ200V	PANA	DIGIKEY	RES SMT THK FILM 20 Ohm 1/16W 5% 0603	138-0074-200
106	2	SW2	MAX4544EUT	MAXIM	-	IC ANALOG SWITCH SOT23-6	162-0718-001
107	2	SW3	AS139-73	ALPHA	-	SWITCH SPDT GaAS HI-LINEAR POS CTL SOT-6	162-0671-001
108	1	S1	TDA04HOSK1	C&K	DIGIKEY	SWITCH SPST SMT ULTRA-MINI 4 POS	144-0133-004
109	2	U1,U3	BGA2001	PHILIPS	FUTURE	IC SILICON MMIC AMPLIFIER SOT343R	162-0719-001
110	2	U2,U4	BGA2022	PHILIPS	FUTURE	IC MMIC MIXER SOT363	162-0719-002
111	1	U5	TK70001MCB	TOKO	DIGIKEY	IC SINGLE-IN 2-OUT SOLID STATE SW SOT-26	162-0700-001
112	2	U6,U8	MAX7405ESA	MAXIM	-	IC 8th-ORDER BESSEL SW-CAP FLTR SO-8	162-0678-002
113	1	U7	MX919BDS	MX-COM	-	IC 4-LEVEL FSK MODEM D-PUMP SSOP-24 PIN	162-0620-002
114	2	U9,U19	MAX4329ESD	MAXIM	-	IC QUAD R-R I/O OP AMP SO-14	162-0720-001
115	3	U10,12,13	PD09-73	ALPHA	-	IC 2-WAY PWR SPLITTER COMBINER SOT-6	162-0686-001
116	1	U11	MRFIC0916	MOTO	-	IC RF CASCODE AMPLIFIER SOT-143	162-0693-001
117	1	U14	MC145193F	MOTO	-	IC SMT 1GHz FREQ SYNTHESIZER SO-20	162-0703-001
118	-	U15	M67766C	MITSU	-	TO BE INSTALLED AT TOP ASSY	-
119	1	U16	AT-113	MA-COM	-	ATTENUATOR VOLT VAR 3V 40dB SO-8	128-0111-001
120	1	U17	MAX548ACUA	MAXIM	-	IC 8-BIT VOLTAGE-OUTPUT DAC 8uMAX	162-0664-001
121	1	U18	SNA-386	STFORD	-	AMPLIFIER DEVICE SMT DC-3GHz CASCADE	150-0118-002
122	1	U20	MAX887HESA	MAXIM	-	IC PWM DC-DC CONVERTER LO-NOISE SO-8	162-0722-001
123	1	U21	LM2941S	NAT	-	REGULATOR 1A LO-DROPOUT ADJ TO-263	162-0683-001
124	1	U22	MAX3238EAI	MAXIM	-	IC RS-232 TRANSCEIVER SSOP-28	162-0677-001
125	2	U23,U32	74VHC244MTCX	FAIRCH	-	IC OCTAL 3-STATE BUFFER TSSOP-20	162-0622-002



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126	1	U24	MM74HC157MTC	FAIRCH		IC QUAD 2-INPUT MULTIPLEXER TSSOP-16	162-0674-003
127	1	U25	MCP130T-475I/TT	STANFD		uDEVICE uCONTROLLER SUPERVISORY SOT-23	162-0681-001
128	1	U26	TC74VHC08FT	TOSHIBA		IC CMOS 2-INPUT AND GATE TSSOP-14	162-0675-002
129	2	U27,29	TC74VHC00FT	TOSHIBA		IC CMOS 2-INPUT NAND GATE TSSOP-14	162-0676-002
130	1	U28	74VHC573MTC	FAIRCH		IC SMT OCTAL 8-BIT D-TYPE LATCH TSSOP-20	162-0614-002
131	1	U30	ATMEGA103-6AI	ATMEL		IC 8-BIT VAR uCONTROLLER TQFP 64-LEAD	162-0679-001
132	1	U31	K6T4008C1B-VF70	SAMSUNG		IC CMOS STATIC RAM (512x8) 70ns TSOP2-32	162-0672-003
133	2	U33,34	SA606DK	PHILIPS		IC HI-PERF MIXER FM IF SYSTEM SSOP-20	162-0723-001
134	1	VCO1	MQE911-815	MURATA		VCO SMT 815 MHz	160-0027-001
135	1	VCO2	MQE911-865	MURATA	-	VCO SMT 865.5 MHz	160-0027-002
136	1	VR1	TK11690U	TOKO	DIGIKEY	IC VR LINEAR LO-DROPOUT 250mA 9V SOT-89	162-0701-001
137	1	VR2	TK11333BMCL	TOKO	DIGIKEY	IC VOLT REGULATOR 3.3V SOT-23L	162-0721-033
138	1	Y1	ECS-49-20-5P	ECS	DIGIKEY	XTAL QUARTZ 4.9152MHz 20pF CASE CSM-7	160-0013-006
139	1	Y2	VC-TXO-39SM100	ECS	DIGIKEY	TCXO SMT 1.5V OUT: .8Vpp/min 10 MHz	160-0028-001
140	1	Y3	CM309A5.5296MABJT	CITIZEN	DIGIKEY	XTAL 5.5926MHz SMD 18pF ±50ppm 4-LEAD	160-0021-001
141	2	Y4,Y5	565140	ICM		CRYSTAL 44.545000MHz 10ppm 10pF LOAD	08010062