

Parts List

PARTS LIST : HPA8-MHW
ENGRG DWG # PL502-80229-51



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ITEM	QTY	REF DES	PART NUMBER	MFR	VENDOR	DESCRIPTION	ELECTROCOM
1	1	-	502-80230 X1	ES	ES	PWB, HI-POWER AMP 800MHz WITH MHW MODULE	502-80230X1
2	-	AR1,2,3,4				RF PWR MODULE TO BE INSTALLED AT TOP ASSY	
3	1	AT1	PM2701	PACIFIC		ATTENUATOR GaAS MMIC SMT 50-6000MHz SO-14	128-0108-001
4	1	CR1	ZR40401F25	ZETEX	DIGIKEY	VOLTAGE REF MICROPWR 20mA 1% SOT-23	162-0605-003
5	1	CR2	DL4148	DIODES	DIGIKEY	DIODE SMD HI-SPEED SWITCHING 100V DL-35	0901-0072
6	2	CR3,F1	F1184CT	LITTEL	DIGIKEY	FUSE SLO-BLO PICO SMF 1.5A 125V	122-0034-002
7	21	C1,2,5,10,11, C12,14,28,30, C33,36,40,43, C46,49,52,55, C58,61,63,64	GRM39Y5V104Z16	MURATA	TIME	CAP SMT CER .1UF 16V +80% -20% 0603	110-0189-104
8	7	C3,7,8,9, C19,24,26	ECU-V1H101JCV	PANA	DIGIKEY	CAP SMT CER 100PF 50V 5% 0603	110-0174-101
9	2	C4,25	ECS-T1AP105R	PANA	DIGIKEY	CAP SMT TANT 1UF 10V 10% SIZE P (=A)	110-0199-105
10	-	C6				CAP SMT TO BE DETERMINED SIZE A	
11	1	C13	ECS-T1ED226R	PANA	DIGIKEY	CAP SMT TANT 22UF 25V 20% SIZE D	110-0188-226
12	4	C15,16,17,18	ECU-V1H102KBV	PANA	DIGIKEY	CAP SMT CER 1000PF 50V 10% 0603	110-0174-102
13	1	C20	GMC10CG2R2B50	CALCHIP	-	CAP SMT CER 2.2PF 50V +/- .1pF 0603	110-0207-2R2
14	1	C21	GMC10CG4R7B50	CALCHIP	-	CAP SMT CER 4.7PF 50V +/- .1pF 0603	110-0207-4R7
15	1	C22	GMC10CG6R8B50	CALCHIP	-	CAP SMT CER 6.8PF 50V +/- .1PF 0603	110-0207-6R8
16	-	C23			-	CAP SMT SIZE 1210 (NOT INSTALLED)	
17	13	C27,29,32,35, C39,42,45,48, C51,54,57,60, C65	ECU-V1H103KBV	PANA	DIGIKEY	CAP SMT CER .01UF 50V 10% 0603	110-0174-103
18	12	C31,34,37,38, C41,44,47,50, C53,56,59,62	GRM426Y5V105Z16	MURATA	-	CAP SMT CER 1UF 16V +80%-20% 1206	110-0175-105
19	2	C66,L4	GRH710COG471J100	MURATA		CAP SMT CER 470PF 100V 15% 1210	110-0193-471
20	1	DC1	1D1304-10	ANAREN		COUPLER BIDIRECTIONAL SMT 0.8-1.0GHz	127-0010-002
21	2	D1,2	LN1271RAL	PANA	DIGIKEY	LED SMT RED GULL-WING 6.mW 2.mA 3V	0903-0037

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1	1	-	502-80230 X1	ES	ES	PWB, HI-POWER AMP 800MHz WITH MHW MODULE	502-80230X1
2	-	AR1,2,3,4				RF PWR MODULE TO BE INSTALLED AT TOP ASSY	
3	1	AT1	PM2701	PACIFIC		ATTENUATOR GaAS MMIC SMT 50-6000MHz SO-14	128-0108-001
4	1	CR1	ZR40401F25	ZETEX	DIGIKEY	VOLTAGE REF MICROPWR 20mA 1% SOT-23	162-0605-003
5	1	CR2	DL4148	DIODES	DIGIKEY	DIODE SMD HI-SPEED SWITCHING 100V DL-35	0901-0072
6	2	CR3,F1	F1184CT	LITTEL	DIGIKEY	FUSE SLO-BLO PICO SMF 1.5A 125V	122-0034-002
7	21	C1,2,5,10,11, C12,14,28,30, C33,36,40,43, C46,49,52,55, C58,61,63,64	GRM39Y5V104Z16	MURATA	TIME	CAP SMT CER .1UF 16V +80% -20% 0603	110-0189-104
8	7	C3,7,8,9, C19,24,26	ECU-V1H101JCV	PANA	DIGIKEY	CAP SMT CER 100PF 50V 5% 0603	110-0174-101
9	2	C4,25	ECS-T1AP105R	PANA	DIGIKEY	CAP SMT TANT 1UF 10V 10% SIZE P (=A)	110-0199-105
10	-	C6				CAP SMT TO BE DETERMINED SIZE A	
11	1	C13	ECS-T1ED226R	PANA	DIGIKEY	CAP SMT TANT 22UF 25V 20% SIZE D	110-0188-226
12	4	C15,16,17,18	ECU-V1H102KBV	PANA	DIGIKEY	CAP SMT CER 1000PF 50V 10% 0603	110-0174-102
13	1	C20	GMC10CG2R2B50	CALCHIP	-	CAP SMT CER 2.2PF 50V +/- .1pF 0603	110-0207-2R2
14	1	C21	GMC10CG4R7B50	CALCHIP	-	CAP SMT CER 4.7PF 50V +/- .1pF 0603	110-0207-4R7
15	1	C22	GMC10CG6R8B50	CALCHIP	-	CAP SMT CER 6.8PF 50V +/- .1PF 0603	110-0207-6R8
16	-	C23			-	CAP SMT SIZE 1210 (NOT INSTALLED)	
17	13	C27,29,32,35, C39,42,45,48, C51,54,57,60, C65	ECU-V1H103KBV	PANA	DIGIKEY	CAP SMT CER .01UF 50V 10% 0603	110-0174-103
18	12	C31,34,37,38, C41,44,47,50, C53,56,59,62	GRM426Y5V105Z16	MURATA	-	CAP SMT CER 1UF 16V +80%-20% 1206	110-0175-105
19	2	C66,L4	GRH710COG471J100	MURATA		CAP SMT CER 470PF 100V 15% 1210	110-0193-471
20	1	DC1	1D1304-10	ANAREN		COUPLER BIDIRECTIONAL SMT 0.8-1.0GHz	127-0010-002
21	2	D1,2	LN1271RAL	PANA	DIGIKEY	LED SMT RED GULL-WING 6.mW 2.mA 3V	0903-0037

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ITEM	QTY	REF DES	PART NUMBER	MFR	VENDOR	DESCRIPTION	ELECTROCOM
22	6	HC1,2,3,4,5,6	1D1304-3	ANAREN	-	COUPLER HYBRID SMT 800-1200MHz	127-0010-001
23	1	L1	LL1608-F1N8S	TOKO	DIGIKEY	INDUCTOR SMT 1.8nH 6000MHz 300mA 0603	128-0106-001
24	1	L2	LL1608-F2N7S	TOKO	DIGIKEY	INDUCTOR SMT 2.7nH 6000MHz 300mA 0603	128-0106-009
25	1	L3	LL1608-F47NK	TOKO	DIGIKEY	INDUCTOR SMT 47nH 1200MHz 300mA 0603	128-0106-008
26	3	Q1,2,9	IRF7204	I.R.	DIGIKEY	IC SMT POWER MOSFET P-CHANNEL SO-8	1210-0324
27	5	Q3,6,7,8,10	MMBT2222AD	DIODES	DIGIKEY	TSTR SMT NPN 350mW 40V SOT-23	0701-0067
28	2	Q4,5	IRF4905	I.R.	DIGIKEY	TSTR SMT NPN 350mW 40V SOT-23	162-0596-001
29	10	R1,3,6,9,11,14, R17,18,23,24	ERJ-3GSYJ104V	PANA	DIGIKEY	RES SMT THK FILM 100K 5% 1/16W 0603	138-0074-104
30	1	R2	ERJ-3EKF3012V	PANA	DIGIKEY	RES SMT THK FILM 30.1K 1% 1/16W 0603	138-0076-016
31	2	R4,13	ERJ-3GSYJ301V	PANA	DIGIKEY	RES SMT THK FILM 300 Ohm 5% 1/16W 0603	138-0074-301
32	6	R5,7,8,10, R12,34	ERJ-3GSYJ103V	PANA	DIGIKEY	RES SMT THK FILM 10K 5% 1/16W 0603	138-0074-103
33	4	R15,19,20,36	ERJ-3GSYJ102V	PANA	DIGIKEY	RES SMT THK FILM 1K 5% 1/16W 0603	138-0074-102
34	1	R16	ERJ-3EKF1132V	PANA	DIGIKEY	RES SMT THK FILM 11.3K 1% 1/16W 0603	138-0076-015
35	1	R21	ERJ-3EKF2101V	PANA	DIGIKEY	RES SMT THK FILM 2.1K 1% 1/16W 0603	138-0076-014
36	1	R22	ERJ-3EKF2432V	PANA	DIGIKEY	RES SMT THK FILM 24.3K 1% 1/16W 0603	138-0076-068
37	1	R25	EVN-5ESX50B53	PANA	DIGIKEY	POT SMT TRIMMER 5K SERIES P5E 3mm	138-0075-502
38	1	R26	100200-4Z50-2	RF/PWR	-	RES SMT HI-PWR 50 Ohm 2% 10W 2010	138-0091-500
39	3	R27,28,29	ERJ-6ENF51R1V	PANA	DIGIKEY	RES SMT THK FILM 51 Ohm 1% 1/10W 0805	138-0079-069
40	1	R30	ERJ-3EKF1132V	PANA	DIGIKEY	RES SMT THK FILM 49.9 Ohm 1% 1/16W 0603	138-0076-001
41	1	R31,32	ERJ-3GSYJ101V	PANA	DIGIKEY	RES SMT THK FILM 100 Ohm 5% 1/16W 0603	138-0074-101
42	1	R33	ERJ-3GSYJ181V	PANA	DIGIKEY	RES SMT THK FILM 180 Ohm 5% 1/16W 0603	138-0074-181
43	1	R35	-	-	-	RES SMT TO BE DETERMINED SIZE 0603	-
44	2	U1,3	AD22105	A/DEV	DIGIKEY	IC SMT LO-VOLT THERMOSTATIC SWITCH SO-8	162-0597-001
45	1	U2	74HCT00	MOTO	-	IC SMT QUAD 2-INPUT NAND GATE SO-14	1210-0317
46	1	U4	TL33072D	T.I.	-	IC SMT SINGLE SUPPLY OP-AMP SO-8	1210-0358
47	1	U5	LM2941T	NAT	-	IC VR 1A LO-DROPOUT ADJ TO-220	162-0683-002

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