

**Parts List PL-
Rev. A**

**G-Way Microwave
PMP750/100/47MK-A2-3
Cable Assembly**

QTY 1

ITEM	Qty Per Unit	Total Qty.	Mfr No.	Part No.	/Vendor //Alt Mfg Part No.	Description	REF DESIG.	Comments
	1	1			Beldin	0.086" RF Cable		Cut 3.800" length
	1	1	132107		Amphenol Connex	SMA Connecotr ass'y, gold		

*Do not substitute
mfr(s).

G-Way Microwave

Parts List PL- PMAXXX/2.3/43OK-A-1 Rev C

15v Preamplifier Partial Assembly

QTY 1

ITEM	Qty Per Unit	Total Qty.	Mfr Part No.	/Vendor//Alt Mfr Part No.	Description	REF DESIG.	Comments (Mfr/Vendor//Alt mfr)
1	1	1	SGA-4586		MMIC Amplifier	A1	Sirenza/Richardson*
2	2	2	SGA-6286		MMIC Amplifier	A2, A3	Sirenza/Richardson*
3	1	1	AMA836/2.3/43OK-AX		Printed Circuit Board	B1	Futura
4	6	6	100A510JW150XT		Capacitor, 51 pF	C1 - C6	ATC
5	1	1	T491C475KO25AS		Capacitor, 4.7uF, 25v, Tant.	C11	Kemet/Mouser
6	4	4		/140-CC501B104K	Capacitor, 0.1 uF, 0805	C7,C8, C9, C10	/Mouser
7	1	1		/625-BZX84C5V1	Diode, zener, 5.1v, 300 mW, SOT-23	D1	/Mouser
8	3	3	0805CS-220XJBB		Inductor, 22 nH, 0805	L1, L2, L3	Coilcraft
9	2	2	CRCW0805-1200JTR		Resistor, 120 ohm, 5%, 0805	R1, R3	/Mouser/Future
10	1	1	CRCW0805-2400JTR		Resistor, 240 Ohm, 5%, 0805	R14	/Mouser/Future
11	1	1	CRCW0805-68R0JTR		Resistor, 68 ohm, 5%, 0805	R2	/Mouser/Future
12	5	5	CRCW0805-1002JTR		Resistor, 10 kOhm, 5%, 0805	R4,R11-R13,R15	/Mouser/Future
13	2	2	CRCW1206-3900JTR		Resistor, 390 ohm, 5%, 1206	R5, R6	/Mouser/Future
14	4	4	CRCW1206-2000JTR		Resistor, 200 ohm, 5%, 1206	R7 - R10	/Mouser/Future
15	1	1	PT65303		Switch, Rotary "DIP"	S1	Apem/Heilind
16	1	1	L7812CV		Voltage Regulator,12V, TO-220	U1	/Future/Mouser (omit if included in final assy)
17	1	1	AT-264-PIN	//AA264-87	Attenuator, digital, 30 dB,4 bit	U2	MA-COM//Alpha*

* Do not substitute mfr(s).

G-Way Microwave

Parts List PL- PMAXXX/2.3/430K-A-2 Rev B

15v Preamplifier Final Assembly

QTY 1

ITEM	Qty Per Unit	Total Qty.	Mfg Part No.	Vendor Part No.	Description	REF DESIG.	Comments
1	1	1	MAXXX/2.3/430K-A-2		Partial Assembly, preamplifier	B1	MSI/IAS
2	1	1	AMAXXX/2.3/430K-A-1		Housing, preamplifier-STD 15V	H1	Concept Components
3	1	1	AMAXXX/2.3/430K-A-2		Cover, preamplifier-STD 15V	COV1	Concept Components
4	2	2	132146-14		Connector, SMA, female, 4-hole flange	J1,J2	Connex
5	1	1	2425-003-X7W0-502P		Bias feedthru, capacitive	J3	Tusonix
6	1	1	MS17172-6	MS17172-6	Terminal, ground turret	J4	Tower Fasteners
7	1	1	2844/7X1000(RED)		Wire, TFE, #24, Red, 1.2"	W1	Future
8	1	1	4/40x1/4 SL pan m/s S/S		Screw, 4-40 x 1/4" pan head, stainless steel		Robinson Screw Corp.
9	15	15	2/56x1/4 SL round m/s S/S		Screw, 2-56 x 1/4" round head, stainless steel		Robinson Screw Corp.
10	4	4	2/56x1/4 SL flat m/s S/S		Screw, 2-56 x 1/4" flat head, stainless steel		Robinson Screw Corp.
11	1	1	L7812CV		Voltage Regulator,12V, TO-220	U1	Future (omit if on partial assy)

* Do not substitute

G-Way Microwave

Parts List - PMAXXX/5/40OK-B1-2 REV.A

MPA 2Watt Final Assembly

QTY 1

ITEM	Qty Per Unit	Total Qty.	Mfr. Part No.	/Vendor //Alt Mfr Part No.	Description	REF DESIG.	COMMENTS Mfr /Vendor //Alt Mfr.
1	1	1	MAXXX/3.5/65OK-B-2		Partial Assy, AGC LNA, 65 dB	B1	
2	1	1	9402-0		Capacitor, variable 0.5-2.5 pF	C22	Johanson*
3	1	1	MHL-9838		Amplifier module, LDMOS	U6	Freescale*
4	1	1	AMAXXX/3.5/65OK-B-1		Chassis	H1	
5	1	1	AMAXXX/3.5/65OK-B-2		Cover	Cov1	
6	1	1	24235-003-X7W0-502P		Feedthru, capacitive	FT1	Tusonix*
7	1	1	MS17172-6		Terminal, turret		/Tower Fasteners
8	3	3			Screw, 2-56 x 1/4", round head		
9	8	8			Screw, 2-56 x 3/4" , flat head		
10	3	3			Screw, 4-40 x 1/4", pan head		
11	1	1			Wire, TFE, #24, Red, 1.5"	W1	

* do not substitute mfr.

G-Way Microwave

Parts List PMAXXX-5-40OK-B1

Partial Assy, ALC LNA, 40 dB

QTY 1

ITEM	Qty Per Unit	Total Qty.	Mfr. Part No.	/Vendor //Alt Mfr. Part No.	Description	REF DESIG.	COMMENTS Mfr /Vendor //Alt Mfr.
1	1	1	MAXXX-3.5-XXOK-BX		R.F. Substrate (p.c. board)	B1	
2	5	5	1206X7R104KL2ST		Capacitor, 0.1 microF cer chip	C3 C9 C10 C14	ATC
3	1	1	NRSS471M16V8x11.5		Capacitor, electrolytic, 470 uF 16 v, 8x11.5 mm	C17	NIC
4	4	4	GRM40Y5V105Z016AL			C1 C2 C4 C11 C13	
5	6	6	100A510JW150X		Capacitor, 51 pF	C5 C6 C8 C12 C7 C16	ATC *
6	1	1		/592-RLS4148	Diode	D2	/Mouser
7	1	1	MA4CS102A-287		Schotky Diode	D3	Macom
8	1	1		/512-MV67539.MP7	LED	D4	/Mouser
9	2	2	13225		Connectors, SMA	J1 J2	
10	1	1	3266Y-1-502		Potentiometer 5k Ohm	K1	Bourns
11	1	1	3362-W-1-101		Potentiometer 100 Ohm	K2	Bourns
12	3	3	0805CS-220XJBB		Coil	L1 L2 L3	Coilcraft
13	6	6	CRCW0805-102JTR		Resistor, 1 kOhm, 5%, 0805	R1 R2 R4 R8 R18 R30	
14	2	2	CRCW0805-000JTR		Resistor, 0 ohm, 0805	R12 R28	
15	4	4	CRCW1206-271JTR		Resistor, 270 Ohm, 5%, 0805	R13 R14 R15 R16	
16	1	1	CRCW0805-30R1FTR		Resistor, 30.1 Ohm, 1%, 0805	R19	
17	2	2	CRCW0805-49R9FTR		Resistor, 49.9 Ohm, 1%, 0805	R20 R21	
18	1	1	CRCW0805-3831FTR		Resistor, 3.83 kOhm, 1%, 0805	R26	
19	1	1	CRCW0805-6041FTR		Resistor, 6.04 kOhm, 1%, 0805	R29	
20	5	5	CRCW0805-103JTR		Resistor, 10 kOhm, 5%, 0805	R3 R5 R6 R7 R25	
21	1	1	CRCW0805-224JTR		Resistor, 220 kOhm, 5%, 0805	R9	
22	1	1	200MSP1T2B2M7RE	PTM-S1-T2B2-M7GE	SPDT Toggle Switch	SW1	E-Switch//Excel-Cell
23	1	1	LM324D		Quad surface mount Op-Amp	U1	
24	1	1	L7812CV		TO-220 12V Regulator	U2	
25	1	1	AT-108		Variable Attenuator	U3	
26	1	1	SGA-6486		MMIC	U4	
27	1	1	L78L05ACD		Relay, surface mount	U7	
28	1	1	1D1304-15		Directional Coupler	U8	Anaren
29							
30							

*do not substitute mfr

G-Way Microwave
Parts List PL- PMP750/100/47MK-A2-2
Rev. A PA Board Assembly

QTY 1

ITEM	Qty Per Unit	Total Qty.	Mfr Part No.	/Vendor //Alt Mfg Part No.	Description	REF DESIG.	Comments
1	1	1	GWY-1000-00024-A1		Board	B1	
2	1	1			Capacitor, 0.3-pF, 0805	C2	ATC
3	1	1			Capacitor, 1.0-pF, 0805	C7	ATC
4	2	2	C11AH1R5B8UXLT		Capacitor, 1.5-pF, 0805	C3,C4	ATC
5	5	5			Capacitor, 33-pF, 0805	C1,C6,C15,C16,C17	ATC
6	6	6	100A470KW150X / 717-02F-02A		Capacitor, 47-pF, 0805	C5,C11,C36,C38,C39, C47	ATC
					Capacitor, 5.6-pFd, A	C102	ATC
					Capacitor, 3.9-pFd, A	C101	ATC
					Capacitor, 6.8-pFd, A	C103	ATC
7	2	2	GRM2165C1H101JA01D		Capacitor, 100-pF, 0805	C46,C52	
8	2	2	GRM2165C1H102JA01D		Capacitor, 1000-pF, 0805	C25,C51	
9	2	2			Capacitor, 1000-pF, size B	C10,C12	ATC
10	2	2	581-SR215C103JAR		Capacitor, 0.01-μF, 0805	C21,C27	
11	15	15	581-08055C104J		Capacitor, 0.1-uF, 0805	C18,C26, C28,C29, C32,C33, C37,C40, C44,C48, C50,C53, C54,C58, C60	
12	4	4	GRM40Y5V105Z016AL		Capacitor, 1-μF, 0805	C19,C35,C41,C61	
13	3	3	445-1411-2-ND		Capacitor, 1-μF, 100V	C9,C14,C22	
14	3	3			Capacitor, 4.7-μF, Tantalum	C24,C30,C56	
15	5	5	T491B106K020 / TMC1DB106KLRH		Capacitor, 10-μF, 20V, Tantalum	C23,C31,C45,C49, C55	
16	2	2	478-2380-1-ND		Capacitor, 10-μF, 50V Tantalum	C8,C13	
17	3	3			Capacitor, 47-μF, 50V	C20,C34,C43	
18	1	1	1D1304-20-T/XC0900A-20S-T		20-dB Directional Coupler 1D1304-A	CPL1	Anaren, Xinger
19	1	1			LED	D1	
20	1	1	FH09P5G1		DB-9, Male	J1	Amp
21	2	2			Ferrite 8.9mm	L1,L2	Elna Magnetics
22	1	1	0805WL330JT		Inductor, Chip, 33-nH, 0805	L3	Coil Craft
23	1	1	(Engineering Kit)		Inductor, Chip, 180-nH, 0603	L4	Coil Craft
24	1	1	ALM-38140		ALM-38140 Variable Attenuator	Q3	Avago
25	1	1	BCP56T1GOSCT-ND		NPN TRANSISTOR 1A,80V	Q4	Infineon
26	2	2	MMBT2222AFSCT-ND		MBT2222 Transistor, SOT-23	Q5,Q9	
27	1	1	SGA-6286		MMIC, SGA-6286	Q44	Sirenza
28	1	1			Resistor, 10-ohm, 0805	R1	
29	1	1			Resistor, 0-ohm, 0805	R2	
30	1	1			Resistor, 1.8K, 0805	R3	
31	1	1			Resistor, 2.2K, 0805	R4	
32	4	4			Resistor, 5.1K. 0805	R5,R8,R29,R39	

33	3	3			Resistor, 240-ohm, 0805	R6,R18,R19	
34	6	6			Resistor, 2K, 0805	R7,R32,R33,R37,R38, R44	
35	1	1			Resistor, 13-ohm, 1206	R9	
36	3	3	3214W-1-202E		Trimpot, 2K	C62,R10,R11	
37	1	1			Resistor, 5.6-ohm, 0805	R12	
38	2	2			Resistor, 910-ohm, 0805	R13,R14	
39	5	5			Resistor, 10K, 0805	R15,R45,R46,R48, R50	
40	4	4			Resistor, 62-ohm, 0805	R20,R21,R22,R23	
41	1	1	TCA0604N7		4-dB Thermal Pad	R24	
42	2	2			Resistor, 5.1K, 1206	R25,R30	
43	1	1			Resistor, 1K, 0805	R26	
44	1	1			Resistor, 51K, 0805	R27	
45	1	1			Resistor, 18.2K, 0805	R28	
46	2	2	3214W-1-502E		Trimpot, 5K	R31,R36	
47	2	2			Resistor, 100-ohm, 0805	R34,R35	
48	3	3			Resistor, 4.7K, 0805	R40,R41	
49	1	1			Resistor, 18K, 0805	R42	
49	1	1			Resistor, 3.3K, 0805	R43	
50	2	2			Resistor, 1K, 0805	R47,R52	
51	1	1			Resistor, 270-ohm, 0805	R49	
52	1	1			Resistor, 1.8 K, 0805	R51	
53	1	1	PTMA080152M			T1	
54	1	1	PTFA070601E		LDMOS Transistor	T2	
55	2	2	ADL5501AKSZ-R7CT-ND		RMS Detector	U1,U2	Analog Devices
56	2	2	MC78M05ACDTC		LM7805D 5-V Voltage Regulator	U3,U13	National Semiconductor
57	1	1	MM74HC02MXCT-ND		74HC02 Quad 2-Input Pos-NOR	U4	Texas Instruments
58	1	1	LM2902M		LM2902 Quad Operational Amplifier	U5	Motorola
59	1	1	DS1870E-010+TSS		DS1870 Biasing Control	U6	Maxim
60	1	1			LMV324TSG-13 Quad Rail-Rail Op Amp	U7	Diode Inc, Maxim, Analog Dev.
61	1	1	MAX6165BES		MAX6165B Precision Voltage Reference	U8	Maxim
62	1	1	MAX4624EUTLF		MAX4624 SPDT Switch	U9	
63	1	1	TMP01FSZ		TMP01 Temperature Sensor	U10	Analog Devices
64	1	1	LM317LM-ND		LM317MDT Voltage Regulator	U11	Motorola
65	1	1	JID0800T1000M10		800-1000MHz Isolator	Y1	

*Do not substitute mfr(s).

G-Way Microwave

Parts List PL-
Rev. C

PMP750/100/47MK-A2
PA Driver Board Assembly

QTY 1

ITEM	Qty Per Unit	Total Qty.	Mfr Part No.	/Vendor //Alt Mfg Part No.	Description	REF DESIG.	Comments
	1	1	AMP900/200/40MK-A1-1	G-Way	Chassis		
	1	1	AMP900/200/40MK-A1-2	G-Way	Cover		
	1	1	AMP900/200/47MK-A2-3	G-Way	Input cable assembly 3.8"		
	1	1	MP900/200/47MK-A2-1	G-Way	Board assembly		
	2	2	Y-9770-ZC		Screw, Hex, DB-9 Connector		
	1	1	R-124		SMA Connector		
		0	2/56 x 1/4" Screw Round		Hardware		
		0	No. 2 Lock Washer		Hardware		
		0	Wire, 22AWG		Wiring		
	3	3	B4C103B-180		Feed-through, 10,000-pF		

*Do not substitute mfr(s).