



Raymarine Limited

8-Pulse Width Radome Radars

FCC ID: PJ5MTX2-8P & PJ5MTX4-8P

Parts Lists

Note: This Technical Description forms part of the 8-Pulse Width Radome Scanner Units, Service Manual

MODULATOR/PSU PARTS LIST

Pathfinder Radar : 8-Pulse width Radome Modulator Revised: Thursday, September 27, 2002

4473-002 Revision: F Bill of Material October 8,2001

Quantity	Reference	Part	Build
1	CN1	Wago-257-454	ALL
1	CN2	PicoFlex2x10	ALL
1	CN4	1X6 MOLEX KK UPRIGHT	ALL
1	CN6	MOLEX_MINIFITJR_1X2	ALL
1	CN7	1X4 MOLEX KK UPRIGHT	ALL
24	C1,C2,C3,C4,C6,C7,C8,C9,C10,C11,C12,C13,C14 C15,C16,C102,C140,C141,C159,C215,C252,C600 C608,C610	1n	ALL
4	C5,C198,C202,C209	47p	ALL
5	C23,C24,C27,C129,C130	4n7	ALL
42	C25,C26,C28,C32,C104,C105,C106,C107,C108, C116,C117,C118,C124,C137,C145,C158,C160, C191,C192,C193,C195,C206,C217,C218,C219 C226,C227,C235,C237,C238,C239,C241,C242 C243,C246,C251,C607,C609,C612,C617,C618, C621	100n	ALL
7	C34,C35,C36,C37,C38,C196,C229	470p	ALL
4	C39,C40,C601,C602	1u	ALL
3	C47,C133,C172	680u	ALL
1	C103	2n2	ALL
3	C109,C112,C138	2n2	ALL
2	C110,C123	1000u	ALL
6	C111,C136,C152,C155,C213,C620	220u	ALL
2	C121,C120	100n	ALL
5	C127,C128,C199,C220,C262	220p	ALL
6	C132,C203,C204,C210,C604,CC613	10n	ALL
1	C134	33n	ALL
1	C139	330p	ALL
4	C143,C144,C245,C249	1u	ALL
2	C154,C146	47n	ALL
3	C147,C207,C208	4u7	ALL
1	C148	1u	ALL
5	C149,C150,C151,C605,C622	1000u	ALL
1	C153	1n	ALL
2	C157,C156	47p	ALL
3	C194,C200,C201	22p	ALL
1	C214	1u	4kW
1	C222	33p	ALL
1	C228	4n7	ALL
1	C231	1u	2kW
1	C232	2u2	4kW
1	C233	100u	ALL
2	C264,C263	220p	ALL
1	C603	47u	ALL
1	C614	10u	ALL
1	C619	100p	ALL
1	D1	BZX84C12V	ALL
5	D15,D17,D29,D54,D613	MURS120T3	ALL
7	D19,D21,D23,D605,D607,D609,D611	10BQ060	ALL

Quantity	Reference	Part	Build
2	D38,D22	BAV99	ALL
4	D26,D40,D60,D70	BAS19	ALL
2	D27,D28	UF180	ALL
1	D33	BYV27-200	ALL
1	D39	BZX84C5V1	ALL
2	D41,D612	BZV85-C18	ALL
2	D52,D53	BAV70	ALL
2	D56,D57	UX-FOB	ALL
2	D58,D59	UF5404	ALL
2	FB3,FB1	BL01RN1-A62	ALL
1	HT1	6299B	ALL
1	HT3	HEATSINK-3036-129-G	ALL
1	JP600	JUMPER	ALL
2	LABEL1,LABEL2	LABEL	ALL
3	L6,L7,L8	100uH	ALL
3	L9,L10,L600	BEAD_L1	ALL
1	NUT1	NUT	ALL
2	OP4,OP3	PC357-D	ALL
1	PCB1	3015-232	ALL
1	Q1	STP60N05FI	ALL
1	Q21	IRF540/IRFP2807	ALL
4	Q22,Q29,Q39,Q603	BC846	ALL
2	Q23,Q600	BC807	ALL
1	Q25	BC856	ALL
1	Q26	IMT1	ALL
5	Q27,Q34,Q38,Q40,Q43	IMX1	ALL
1	Q28	2N2222A	ALL
3	Q35,Q36,Q37	2N3904	ALL
1	Q41	IRFP450	ALL
2	Q601,Q602	BC856	ALL
2	RIV1,RIV8	RIV-SCREW	ALL
1	RT1	PTH9M04BC222TS2F333	4kW
1	R3	1K0	2kW
1	R4	1K8	4kW
5	R5,R134,R161,R179,R255	15K	ALL
10	R14,R189,R193,R260,R264,R265,R266,R289, R360,R601	47K	ALL
6	R128,R176,R286,R345,R350,R606	100K	ALL
15	R129,R135,R136,R137,R138,R139,R140,R154 R155,R293,R317,R318,R605,R632,R633	47R	ALL
10	R130,R142,R164,R196,R254,R358,R361,R624, R628,R631	4K7	ALL
2	R296,R131	2K2	ALL
31	R132,R133,R166,R188,R195,R197,R201,R267, R268,R269,R270,R271,R272,R273,R274,R275, R281,R284,R287,R288,R298,R299,R304,R306, R312,R355,R362,R603,R614,R615	10K	ALL
2	R144,R141	22R	ALL
15	R143,R156,R157,R158,R159,R198,R199,R203, R257,R278R283,R604,R617,R619,R634	100R	ALL
4	R145,R301,R616,R625	470R	ALL
7	R147,R186,R329,R330,R352,R356,R600	10R	ALL
18	R148,R149,R150,R151,R152,R153,R171,R194 R259,R262,R276,R277,R285,R308,R343,R344,	1K0	ALL

Quantity	Reference	Part	Build
	R347,R351		
1	R160	220R	ALL
3	R162,R311,R349	5K6	ALL
2	R163,R309	3K3	ALL
1	R165	680R	ALL
3	R172,R202,R322	33R	ALL
3	R173,R174,R175	0R1	ALL
2	R178,R307	2K7	ALL
7	R181,R182,R183,R184,R185,R348,R626	6K8	ALL
3	R187,R190,R608	22K	ALL
2	R192,R191	270R	ALL
2	R258,R263	1K5	ALL
3	R261,R291,R627	33K	ALL
1	R290	39K	ALL
1	R292	1K8	ALL
1	R294	27K	ALL
1	R305	10K	4kW
1	R310	6K8	4kW
1	R314	68K	ALL
1	R315	470K	ALL
4	R316,R319,R320,R321	1R0	ALL
1	R323	10R	ALL
3	R326,R327,R328	0R47	ALL
1	R338	4R7	ALL
1	R339	4R7	ALL
1	R340	10R	ALL
1	R341	470K	ALL
1	R346	12K	ALL
1	R357	22R	ALL
2	R610,R359	0R0	ALL
1	R367	1K0	ALL
3	R607,R609,R622	220k	ALL
2	R623,R611	1K	ALL
1	R613	100R	ALL
2	R621,R620	330R	ALL
3	R635,R636,R637	3R3	ALL
2	R638,R639	1R0	ALL
1	R640	220K	ALL
1	SCREW1	SCREW	ALL
1	SIL1	TO247-SILPAD	ALL
1	TX1	3030-261/3030-262	ALL
1	TX3	3030-212	ALL
1	T3	B82726-A2602-N1	ALL
1	U7	TL431-SO8	ALL
1	U8	UCC3800	ALL
1	U11	74LS221	ALL
1	U12	74HC14	ALL
1	U13	TC4427	ALL
1	U14	LM324	ALL
1	U601	LM358	ALL
1	U602	UCN5804	ALL
1	VR1	V56ZA2	ALL
2	WASH1,WASH8	FIBRE-WASHER	ALL
1	WASH2	WASHER	ALL

Spare Parts and Accessory List

Raymarine 2D and 4D, 8-Pulse Width Radome Scanner Units

Spare Parts

Description	Pt. No.	Used on
18" radome top	W101	2D
18" radome base	W103	2D
18" case seal	R085	2D
18" antenna & rotary joint	R086	2D
24" radome top	W105	4D
24" radome base	W107	4D
24" case seal	R087	4D
24" antenna & rotary joint	R088	4D
Core seals	R089	2D, 4D
Magnetron 2Kw	R58006	2D
Magnetron 4kW	R091	4D,
Circulator	R094	All scanners
Stepper motor	R095	2D, 4D
Drive belt	R096	2D, 4D
Modulator 2kW, 8P radome	R58107	2D
Modulator 4kW, 8P radome	R58108	4D
Receiver LNC	R101	All scanners
IF PCB, 2kW 8P radome	R58109	2D
IF PCB, 4kW 8P radome	R58110	4D
Ribbon cable, 18 Way, 220mm, 8P radome	R58111	2D, 4D
Opto PCB, 8P radome	T.B.A.	2D, 4D
Connector assy.	R105	2D, 4D
Drain tube	R123	2D, 4D
Foot seals	R124	2D, 4D
Lanyard	R125	2D, 4D
Radome fixing kit	D346	2D, 4D
Bitumen washers	R141	2D, 4D

Accessories

Description	Pt. No.	Used on
Mounting kit	W104	2D
Cable assy, 15m light	M92720	2D (Europe)
Cable assy, 10m light	M92692	2D (US)
Cable assy, 15m heavy	M92668	4D
Mast mount bracket, 18"	M92722	2D
Mast mount bracket, 24"	M92698	4D
Cable assy, 25m	M92669	2D, 4D
Extension cable, 5m	M92699	All scanners
Extension cable, 10m	M92670	All scanners
Molex 8-way connector	R126	2D, 4D