

Title: Watersafe IF Receiver

Revision: K

Count	Part Number	Value	RefDes	Description	Manufacturer
1		20 AWG	A1	20 AWG Enameled, 8"."	
1	MAX1473EUI	MAX1473EUI	U1	315 MHz - 433 MHz ASK superheterodyne receiver, 28 TSSOP	Maxim
1	BD-107505K	BD-107505K	BD1	Base Station Receiver	Terrapin Communications
1		3.9 pF	C8	Capacitor, 50 VDC, +/- 0.1 pF ceramic 0603	
1		0.47 uF	C18	Capacitor, 50 VDC, 20%, ceramic 0603	
3		10 nF	C11	Capacitor, 50 VDC, 5%, ceramic 0603	
		10 nF	C2	Capacitor, 50 VDC, 5%, ceramic 0603	
		10 nF	C35	Capacitor, 50 VDC, 5%, ceramic 0603	
3		10 pF	C29	Capacitor, 50 VDC, 5%, ceramic 0603	
		10 pF	C30	Capacitor, 50 VDC, 5%, ceramic 0603	
		10 pF	C5	Capacitor, 50 VDC, 5%, ceramic 0603	
2		100 nF	C12	Capacitor, 50 VDC, 5%, ceramic 0603	
		100 nF	C24	Capacitor, 50 VDC, 5%, ceramic 0603	
3		100 pF	C1	Capacitor, 50 VDC, 5%, ceramic 0603	
		100 pF	C10	Capacitor, 50 VDC, 5%, ceramic 0603	
		100 pF	C9	Capacitor, 50 VDC, 5%, ceramic 0603	
1		3.3 nF	C16	Capacitor, 50 VDC, 5%, ceramic 0603	
1		1000 pF	C21	Capacitor, 50 VDC, 5%, ceramic 0603	
1		1500 pF	C13	Capacitor, 50 VDC, 5%, ceramic 0603	
2		220 pF	C14	Capacitor, 50 VDC, 5%, ceramic 0603	
		220 pF	C7	Capacitor, 50 VDC, 5%, ceramic 0603	
2		30 pF	C4	Capacitor, 50 VDC, 5%, ceramic 0603	
		30 pF	C6	Capacitor, 50 VDC, 5%, ceramic 0603	
1		470 pF	C15	Capacitor, 50 VDC, 5%, ceramic 0603	
1		470 uF 25V	C27	Capacitor, Aluminum, 20%, 25V, RADIAL, 200 mil spacing	
1		47 uF 25V	C26	Capacitor, Aluminum, 20%, 25V, RADIAL, 80 mil spacing	
		4.7 uF	C25	Capacitor, Tantalum, 20%, 16V, Polarized, Case B	
1	PJ-102A	DC-08	J2	Connector, Power, .250 dia"	CUI Stack
1	DF005M	DF005M	BR1	Diode, Bridge	
1	BAV199	BAV199	D1	Dual, with series connection, SOT-23	Diodes Inc.
2	BAV99-7	BAV99	D3	Dual, with series connection, SOT-23	Zetex
	BAV99-7	BAV99	D4	Dual, with series connection, SOT-23	Zetex
1	SFTLA10M7FA00-B0	SFTLA10M7FA00-B0	Y2	Filter, ceramic, 10.7 MHz	Murata
1	10-89-2043	4 Pins	J1	Header, Dual row, 4 pin, .100 mil pitch, 420 mil Tail	Molex
1	0603CS-R12XJB	120 nH	L1	Inductor SMT, 0603, 5%	Coilcraft
1	0603CS-27NXJB	27 nH	L3	Inductor SMT, 0603, 5%	Coilcraft
1	PIC-16C73B-20/SO	PIC-16C73B-20-SO	U3	MCU OTP 4KX14 A/D PWM 28 SOIC	Microchip
1	LM340MP-5.0	LM340MP-5.0	VR1	Positive, 5V, 4-terminal, SOT-223	National
3		0	R2	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
		0	R3	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
		0	R4	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
4		100	R11	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
		100	R12	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
		100	R14	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
		100	R16	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
4		300	R15	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
		300	R18	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
		300	R19	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
		300	R28	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
1		1 M	R9	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
5		10k	R10	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
		10k	R13	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
		10k	R17	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
		10k	R24	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
		10k	R30	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
1		3.3k	R31	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
1		5 k	R21	Resistor, 1/16 (0.0625) W, 5%, 0603 size	
1	KBR-20.00MSA	KBR-20.00MSA	X2	Resonator, Ceramic, 20 MHz, KBR-20.00MSA	Kyocera
1	1N4148WCT-ND	1N4148W-7	D6	Small-Signal Diode	Diodes Inc.
1	BC1FFA110-9.603125	BC1FFA110-9.603125	Y1	XTAL, 9.603125MHz, HC49/U package, 50/50ppm, 0-70C, 10pF loading, Fundamental	Bomar