

W-32A-TX BOM

revised: 17-Feb-00

Component	Description	ID	Tot Qty	Comments
<u>Printed Circuit</u>				
<u>Board</u>	CEM-1, 1-sided, 1oz Cu.	--	1	
<u>Antenna</u>	PCB trace (foil loop)	--	#	part of PCB
	wire (loop), #18 Cu plated, 1 inch length	--	1	Hand formed w/ gauge
<u>Diodes</u>				
	Rect-signal, 1N4148,	D1, D2	2	
<u>Capacitors</u>				
	Ceramic, 1000pF, 50V, 20%, radial	C1,C5,C9,C11	4	
	Ceramic, 10pF, NPO, 50V, radial	C4, C8	2	
	Ceramic, 2.2pF, NPO, 50V, radial	C3, C7	2	
	Ceramic, 5.6pF, NPO, 50V, radial	C12	1	
	Ceramic, 1.5pF, 50V, 20%, radial	C13	1	
	Ceramic, 3.3pF, NPO, 50V, radial	C14	1	
	Ceramic, 20pF, NPO, 50V, radial	C15	1	
	Ceramic, 4.7pF, NPO, 50V, radial	C16	1	
	Ceramic, 47pF, 50V, 20%, radial	C17	1	
	EI-Al, 47uF, 10V, 20%, +85C, radial	C10	1	Electrolytic
	EI-Al, 0.47uF, 50V, 20%, +85C, radial	C2, C6	2	Electrolytic
	Trim (var) -screw, 2 to 5 pF, 20%	"VC"	1	radial, 3-leg
<u>Crystals</u>				
	quartz crystal/tuning fork, 20ppm,12.5pF 28.0 kHz, 30.0 kHz, 32 kHz, 32.768 kHz and 38.0 kHz axial metal can	X1, X2	2	X1=28.0 and X2=30.0 or X1=32.768 and X2=38.0
<u>Inductors</u>				
(coils)	Inductor, composite, 1.5uH, axial	L1	1	

Parts List

(PCB level)

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<hr/>				
<u>ICs</u>				
	Digital-CMOS, 4193BE --(Quad NAND gate)	U1, U2	2	14pin DIP
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<u>Resistors</u>				
	Carbon, 1/8W, 5%, 1M ohm	R1,R4,R7,R10	4	
	Carbon, 1/8W, 5%, 560K ohm	R2, R8	2	
	Carbon, 1/8W, 5%, 220K ohm	R6, R12	2	
	Carbon, 1/8W, 5%, 20K ohm	R5, R11	2	
	Carbon, 1/8W, 5%, 180K ohm	R3, R9	2	
	Carbon, 1/8W, 5%, 470K ohm	R13	1	
	Carbon, 1/8W, 5%, 22 ohm	R15	1	
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<u>Transistors</u>				
	Bipolar, 2N3904	Q1,Q2,Q3,Q4	4	TO-92
	Bipolar, Hi-freq, 2SC1923Y	Q5	1	TO-92
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<u>Misc.</u>				
	Battery clip & wire, 9V plug	Batt	1	
	Switch-Dimple, momentary, metal	Sw1, Sw2	2	one for each channel
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