

SOFTY 1 BOM

RefDes	Value	Description	Notes	Supplier Part No.	Quantity
C1	10uF/25V	Electrolytic capacitor			1
C2,3,6,8	100nF	Ceramic capacitor			4
C4,9,14	22uF/10V	Electrolytic capacitor			3
C5,11	4n7	Ceramic capacitor			2
C7,16	10nF	Polyester (Mylar) capacitor			2
C10	220pF	Ceramic capacitor			1
C12,15	330pF	Ceramic capacitor			2
C13	10uF/16V	Non-polarised electrolytic capacitor			1
C17	22pF	Ceramic capacitor			1
C18	100nF	Polyester (Mylar) capacitor			1
C19	560pF	Ceramic capacitor			1
C20	4u7/10V	Tantalum bead capacitor			1
D1,2,3,4	1N4148	Small signal silicon diode			4
IC1	74LS93	4-bit binary counter			1
IC2	74LS157	Quad 2-input multiplexer			1
IC3	74LS90	Decade counter			1
IC4	MM2102	1K x 1-bit SRAM			1
IC5	CD4081B	Quad 2-input AND gate			1
IC6,7	CD4503B	Hex 3-state buffer			2
IC8	74LS04	Hex inverters			1
IC9	74S287	256 x 4-bit PROM	or 74S571		1
IC10,14	MM2114	1K x 4-bit SRAM			2
IC11	74LS73	Dual JK flip flop			1
IC12	CD4040B	12-bit binary counter			1
IC13	7495	4-bit shift register			1
IC15	CD4070B	Quad XOR gate			1
IC16	74LS42	4 to 10-line BCD to decimal decoder			1
IC17	MM2708	1K x 8-bit EPROM	or 2716 (not Texas)		1
IC18	CD4011B	Quad 2-input NAND gate			1
IC19	NE555N	Timer			1
IC20	INS8060	SC/MP CPU			1
IC21	INS8154	128-byte RAM and I/O			1
IC22	CD4068B	8-input NAND gate			1
IC23	24-pin	ZIF Socket			1
J1	Edgeconnector	Power and bus			-
J2	Edgeconnector	Keyboard			-
J3	5-pin 180deg	PCB mounting DIN socket		RS 878-2662	1
J4	Phono Socket	Video		CPC PSG01544	1
LK1	0.1" header x 3	EPROM select	select Intel 2716 or TMS2708/2716		3
LK2	0.1" header x 3	EPROM select	select Intel 2716 or TMS2708/2716		-
LK3	0.1" header x 3	Transwift invert			-
LK4	0.1" header x 5	Program socket select	select (Texas) 2708 or 2716		1
LK5	0.1" header x 2	NENIN link	fit when NENIN is not used		2
LK6	0.1" header x 2	NCARD OV link	fit when NCARD is not used		-
MOD1	Astec UM1111 or UM1233	UHF Modulator			1
R1,2,4,5,9,14,16,18,19,25,26,29,30,31,32,33,34,35,36,37,38,40,42	10K	250mW resistor			23
R3,17	6K8	250mW resistor			2
R6,11,12	22K	250mW resistor			3
R7	47K	250mW resistor			1
R8	3K9	250mW resistor			1
R10	15K	250mW resistor			1
R13,20,24	1K	250mW resistor			3
R15	330R	250mW resistor			1
R21,23	100K	250mW resistor			2
R22	82K	250mW resistor			1
R27	47R	250mW resistor			1
R28	18R	250mW resistor			1
R39,41	2K2	250mW resistor			2
R43	68R	250mW resistor			1
R44	75R	250mW resistor	(monitor may require 0R)		1
R45	2K2	250mW resistor	only fitted for UM1233		1
R46	1K5	250mW resistor	only fitted for UM1233		1
R47	220R	250mW resistor	only fitted for UM1111		1
S1-21	Footprint: 5x5mm or 5x12.5mm	Tactile switch		e.g. D6 e.g. Omron B3F-5050 + B32-1380	21
TR1,2,3,4,5,6	BC182B	NPN transistor	(don't use BC182L)		6
TR7	BC212B	PNP transistor	(don't use BC212L)		1
VR1	470/500K	10mm preset resistor		PIHER PT10	1
XTAL	4MHz HC49u	Crystal			1
ZD1	BZX84-2V7	Zener diode			1
IC19	8-pin	DIL socket			1
IC1,3,5,8,11,13,15,18,22	14-pin	DIL socket			9
IC2,4,6,7,9,12,16	16-pin	DIL socket			7
IC10,14	18-pin	DIL socket			2
IC17	24-pin	DIL socket			1
IC20,21	40-pin	DIL socket			2