

MK14E VDU BOM

RefDes	Value	Description	Notes	Supplier Part No.	Quantity
C1-7,12-21	Ceramic capacitor	100nF			17
C8	Ceramic capacitor	6n8			1
C9	Ceramic capacitor	220pF			1
C11	Ceramic capacitor	150pF			1
C22	Electrolytic capacitor	33uF/35V			1
D1	1N4148	Small signal silicon diode			1
IC1	74LS86	Quad 2-input EOR			1
IC2	74LS20	Dual 4-input NAND			1
IC3	74LS393	4-bit binary counter			1
IC4,18	74LS74	Dual JK flip flop			2
IC5	4011B	Quad 2-input NAND			1
IC6	74HCT4040	12-stage binary counter	must be HCT		1
IC7,12	74LS04	Hex inverter			2
IC8	74LS157	Quad 2 to 1-line selector			1
IC9,10	74LS244	Octal tri-state buffer			2
IC11	74LS27	Triple 3-input NOR			1
IC13	4082B	Dual 4-input AND			1
IC14	74LS00	Quad 2-input NAND			1
IC15a	2732	4K x 8-bit EPROM	200 or 250nS speed rating		1
IC15b,16	74LS166	8-bit shift register			2
J1	Phono socket	Video			1
J2	2x3 0.1"		CPU control		1
LK1	0.1" x 3 header	Top	Links Top to either A8 or A10		1
LK2	0.1" x 2 header	Reverse	Links Reverse to GND		1
LK3	0.1" x 3 header	Graph/Char	Links Graph/Char to either Top or Flag2		1
LK4	0.1" x 3 header	Invert Bit	Selects Graphics Invert Bit as either D6 or D7		1
LK5	0.1" x 2 header	ON/OFF	Links ON/OFF to Flag1		1
LK6	0.1" x 2 header	Invert	Links Invert to GND		1
LK7	0.1" x 2 header	Font A	Font select bit 0		1
LK8	0.1" x 2 header	Font B	Font select bit 1		1
LK9	0.1" x 3 header	Clock	Selects Osc or CPU clock		1
PL1	DIN41612 AB 64-way	Right angle plug			1
Q1,2,4	BC239	NPN transistor			3
R1,9	100R	250mW resistor			1
R2,5,10-15,17-21	4K7	250mW resistor	R12 not required for MK14E		13
R3,4	27K	250mW resistor			2
R6	1K0	250mW resistor			1
R7	2K7	250mW resistor			1
R8	3K3	250mW resistor			1
R16	470R	250mW resistor	not required for MK14E		1
RP1	4K7 x 8	Resistor network		Bourns 4609X-101	1
S1	8-way	DIL switch	Page Select		1
S2	PCB mount	Toggle switch	VDU On/Off	e.g. C&K 7101MD9AGE	1
TP1	Test points		Port connections		1
X1	4MHz	4-pin crystal oscillator			1
IC1-5,7,11-14	14-pin	DIL socket			10
IC6,8,15b,16	16-pin	DIL socket			4
IC9,10	20-pin	DIL socket			2
IC15a	24-pin	DIL socket			1