

## 80x25 VDU Interface Board (Enhanced)

RefDes	Value	Description	Notes	Supplier Part No.	Quantity
C2	47pF	Ceramic capacitor			1
C3,11	150pF	Ceramic capacitor			2
C4,5	470pF	Ceramic capacitor			2
C6	330pF	Ceramic capacitor			1
C7,8,9,12	47nF	Ceramic capacitor			4
C10	10uF	Electrolytic capacitor			1
D1-4	1N4148	Small signal silicon diode			4
IC1,2	74LS138	3 to 8 line decoder			2
IC3	HD46505SP-2	CRT controller	can be used with compatible part e.g. MC68B45		1
IC4	DP8304	Octal buffer			1
IC5,6,7	74LS157	Quad 2 to 1 line demux			3
IC8-11	2114	1Kx4-bit SRAM			4
IC12	74LS374	Octal D-type flip flop			1
IC13	2516	2Kx8 EPROM	Character generator		1
IC14	74LS165	8-bit shift register			1
IC15	74LS02	Quad 2-input NOR			1
IC16	74LS86	Quad 2-input XOR			1
IC17	74LS132	Quad 2-input NAND schmitt			1
IC18	74LS00	Quad 2-input NAND			1
IC19	74LS174	Quad D-type			1
LK1	0.1" Header x 2	Lightpen			1
LK2	0.1" Header x 2	Video Invert			1
LK3	0.1" Header x 2	VMA			1
LK4	0.1" Header x 2	2MHz clock select - local oscillator			1
LK5	0.1" Header x 2	2MHz clock select - O2			1
LK6	0.1" Header x 2	2MHz clock select - bus 2MHz			1
LK7	0.1" Header x 2	Cursor (Hitachi CRTC)			1
LK8	0.1" Header x 2	Cursor (Motorola CRTC)			1
LK9	0.1" Header x 2	Video out sync			1
LK7A,B	0.1" Header x 2	RAM address select			1
LK8A,B	0.1" Header x 2	CRTC address select			1
LK9A,B	0.1" Header x 2	RAM address select			1
LK10A,B	0.1" Header x 2	RAM address select			1
LK11A,B	0.1" Header x 2	RAM address select			1
LK12	0.1" Header x 2	12MHz clock select - local oscillator			1
LK13	0.1" Header x 2	12MHz clock select - bus 12MHz			1
PL1	DIN 41612 AB 64-way	Right angle plug			1
Q1	2N2369	NPN transistor			1
R1,15,16,17,18,19	47R	250mW resistor			6
R2,8	100R	250mW resistor	R8 was 150R in original Acorn design		2
R3	47K	250mW resistor			1
R4,7,12	1K0	250mW resistor			3
R9	10K	250mW resistor			1
R10	1K2	250mW resistor			1
R11,14	82R	250mW resistor			2
R13	2K7	250mW resistor			1
RV1,2	1K0	Preset resistor			2
IC15,16,17,18	14 pin	DIL socket			4
IC1,2,5,6,7,14,19	16 pin	DIL socket			7
IC8-11	18 pin	DIL socket			4
IC4,12	20 pin	DIL socket			2
IC13	24 pin	DIL socket			1
IC3	40 pin	DIL socket			1

### Offboard Parts

	SHP 3U	Front panel with handle and fittings		Verotec 957-235349	1
		Panel brackets	or print your own	Verotec 173-12525	pair
	M2.5 x 10mm	Pan head screws			4
	M2.5	Nuts			4
	6-pin 240deg	DIN socket		RS 490-905	1
		BNC socket			1
	3-pin size 0	Lemo socket			1