

## ASCII Keyboard (Electron)

RefDes	Value	Description	Notes	Supplier Part No.	Quantity
C1	1nF	Ceramic capacitor			1
C2,4,5,8,9,10	100nF	Ceramic capacitor (0.1" pitch)			6
C3	0.47uF	Tantalum bead capacitor			1
C6	100nF	Ceramic capacitor (0.2" pitch)			1
C7	15uF/16V	Electrolytic capacitor			1
C11	1uF	Tantalum bead capacitor			1
D1	1N4148	Small signal silicon diode			1
D2-D4	Red	LED			3
IC1	AY-3-4592	Keyboard encoder			1
IC2	CD4051B	8-channel analogue multiplexer			1
IC3	CD4093B	Quad 2-input NAND schmitt			1
IC4	74LS00	Quad 2-input NAND gate			1
IC5,6	74LS04	Hex inverter			2
IC7,8	NE555	Timer			2
LK1/2	Open	Strobe invert	not fitted		
LK3	Closed	Break link	not fitted		
LK4	Open	Caps lock invert	not fitted		
PL1	20-way	right angle ribbon cable header		3M	1
R1,3,13,14	10K	250mW resistor			4
R2,4,15	100K	250mW resistor			3
R5	220K	250mW resistor			1
R6,11,12	1M0	250mW resistor			3
R8,9,10	220R	250mW resistor			3
S1-S62	Keyswitch	Electron keyswitch			62
VR1	1M0 Preset	Preset resistor		Bourns 3329H	1
IC7,8	8-pin	DIL socket			2
IC3,4,5,6	14-pin	DIL socket			4
IC2	16-pin	DIL socket			1
IC1	40-pin	DIL socket			1

### Offboard Parts

		Acorn Electron case	modified		1
		Acorn Electron keyboard	modified		1
		Set of BBC computer keyboard key caps	some not required		62
	20mm	Sleeving for LEDs			6
	20-way	Ribbon cable			1m
	20-way	Ribbon cable header		3M	2
		Insulation tape			
		Adhesive backed black plastic	to fit to top of case		