

Bill Of Materials for cabletestlcd

13 Capacitors

Quantity	References	Value	Description
9	C1-C7,C12-C13	0.47u	CAP CERM 22uF 10% 6.3V X5R 1206
4	C8-C11	47U	47u 25V Radial Electrolytic capacitor

Sub-totals:

48 Resistors

Quantity	References	Value	Description
42	R1-R40, R48-R49	1K	SMD1206 Resistor 1 kohm 250mW, ± 5%
2	R43,R50	10K	SMD 1206 Resistor, 10 kohm 250mW, ± 5%
2	R46,R51	47K	SMD1206 Resistor, 47 kohm 250mW, ± 5%
2	R47,R52	470	SMD 1206 Resistor, 479 ohm 250mW, ± 5%

Sub-totals:

11 Integrated Circuits

Quantity	References	Value	Description
3	U1-U3	ATMEGA8	8 KBytes Flash, 1088 Bytes SRAM, 512 Bytes EEPROM, ADC, Analog Comparator, TWI, SPI, 3 Ports, 3 Timers, 1 USART
5	U4,U6-U9	ULN2803	5V TTL, CMOS Logic, High Voltage (VCEmax=50V), High Current Darlington Transistor Array
1	U5	PC817A	High Density Mounting Type Photocoupler.
2	U10-U11	7805	5V Fixed 1A Positive Power Supply Regulator.

Sub-totals:

2 Transistors

Quantity	References	Value	Description
2	Q1-Q2	BC337	Silicon NPN Low Power High Frequency Bipolar Transistor (625mW, 150eC)

Sub-totals:

3 Diodes

Quantity	References	Value	Description
2	D3-D4	1N4007	Si; 1.00kV 1.00A 3.00us
1	D5	BAT54S	Schottk - 30.0V 0.200A 5.00ns

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Sub-totals:

11 Miscellaneous

Quantity	References	Value	Description
2	B1-B2	9V	AAAx6 Battery holder
2	J6-J7	TBLOCK-I2	Imperial pitch terminal block
1	LCD2	LM020L	Alphanumeric LCD, 16 x 1, White on Blue, 5V, 85mm x 28mm
2	RV1-RV2	10k	Potentiometer (Lin, Log or Antilog Law)
2	SW1,SW3	SW-SPST	Toggle SPST Switch 2,54mm
2	SW2,SW4		SPST Push Button

Sub-totals:

Totals: