

Designator	Comment	Description	Quantity
9v, GND, IN, OUT	Plug	Wire	4
LDR1	LDR	VTL5C	1
SW1	TAP	SPST Momentary Switch, Normally Open	1
Depth, Rate, Shape, Subd, Vol	B10k	Potentiometer	5
Q1	2N5089	NPN Bipolar Transistor SOT-23	1
D1, D2	1N4007	High Conductance Fast Diode	2
IC1	TL072	Dual High-Performance Operational Amplifier	1
Y1	X1103-ND	Crystal 16.0000MHz 30ppm 20pF 40 Ohm Through Ho	1
C5, C18	15pF	Ceramic disc cap	2
C6, C7	1uF	BOX Cap NP	2
LED	Bi Color Polar Changing LED	Bi Color Polar Changing LED	1
U3	Atmega8 DIP28	Atmega8 DIP28 Package	1
C3, C10, C11, C14, C15, C16, C20, C24, C25, C26	100nF	100V 5% Mylar Film Capacitors	10
C4	1n	100V 5% Mylar Film Capacitors	1
R9	Boost	50k TRIMMER POTENTIOMETER CERMET 1 TURN	1
C1, C2, C27	100uF	16V Aluminum Electrolytic Capacitor 5x11mm	3
C8	47uF	16V Aluminum Electrolytic Capacitor 5x11mm	1
C9	10uF	16V Aluminum Electrolytic Capacitor 5x11mm	1
Bias	B10k	10k TRIMMER POTENTIOMETER CERMET 1 TURN	1
U1	78L05	5 VOLTS 100MA VOLTAGE REGULATOR	1
JP1, JP2	0R	1/4W 5% CARBON FILM RESISTOR	2
R1	10k	1/4W 5% CARBON FILM RESISTOR	1
R11, R13, R15, R16	1k	1/4W 5% CARBON FILM RESISTOR	4
R14	47R	1/4W 5% CARBON FILM RESISTOR	1
R28, R40	10k	1/4W 5% CARBON FILM RESISTOR	2
R3, R4	47k	1/4W 5% CARBON FILM RESISTOR	2
R5	1M	1/4W 5% CARBON FILM RESISTOR	1
R6	4.7k	1/4W 5% CARBON FILM RESISTOR	1
R8	4.7k	1/4W 5% CARBON FILM RESISTOR	1
Led-LDR	Led-LDR	* the LED pard of the VTL5C	1