

# Multi PIC Programmer 5V2

## Bill Of Material

## Alternative Version

ID	Component	Value	Description
C1	Capacitor	100uF	Aluminum electrolytic capacitors, 16V-35V
C2	Capacitor	100uF	Aluminum electrolytic capacitors, 16V-35V
C3	Capacitor	0.1uF	Multilayer Ceramic Capacitor, (Lead spacing 5.08mm for the PCB)
D1	Diode	1N4148	Fast Switching / General Purpose Rectification Diode
D2	Diode	1N4148	Fast Switching / General Purpose Rectification Diode
D3	Diode	1N4148	Fast Switching / General Purpose Rectification Diode
D4	Diode	1N4148	Fast Switching / General Purpose Rectification Diode
D5	Zenner Diode	5.1V	0.5W
D6	Zenner Diode	6.2V	0.5W
D7	LED	Red	Forward Voltgae 2.0V-2.1V(lead spacing 2.54 mm for the PCB)
J	Jumper Wire		Seven Jumper Wires are required for the PCB
Q1	Transistor	2N3904	NPN General Purpose Small Signal Transistor. 2N3904, BC547*
Q2	Transistor	2N3904	NPN General Purpose Small Signal Transistor. 2N3904, BC547*
Q3	Transistor	2N3906	PNP General Purpose Small Signal Transistor. 2N3906, BC557**
R1	Resistor	1.5k Ohm	Carbon Film Resistor, 0.25W
R2	Resistor	10k Ohm	Carbon Film Resistor, 0.25W
R3	Resistor	1k Ohm	Carbon Film Resistor, 0.25W
R4	Resistor	100 Ohm	Carbon Film Resistor, 0.25W
R5	Resistor	10k Ohm	Carbon Film Resistor, 0.25W
SW1	Switch	3 pin	SPDP(On-On) Slide/Toggle Switch, or Post Header.
SW1	Switch	3 pin	SPDP(On-On) Slide/Toggle Switch, or Post Header.
U1	ZIF socket	40 pin	ZIP DIPII 40pin(TEXT TOOL/3M), 40pin Universal ZIF Test Socket(ARIES)
U2	D-sub	9 pin	Female, ( with right-angle pins for the PCB)

\* Caution pin-out ! 2N3904(EBC),BC547(CBE)

\*\*Caution pin-out ! 2N3906(EBC),BC557(CBE)