

Timers Schematic : Bill of Materials

Qty	I.D.	Value	Package	Manf.	Source	Stock No.	MOQ
1	R1	1.5k 1% 0.125W CMF55 Metal Film Resistor	Axial	Vishay	RS	830-7176	1
1	R2	10k 1% 0.125W RN55 Metal Film Resistor	Axial	Vishay	RS	830-7447	1
3	R3 R4 R5	47k 1% 0.125W RN55 Metal Film Resistor	Axial	Vishay	RS	851-4879	1
2	R6 R7	200k 1% 0.125W RN Metal Film Resistor	Axial	Vishay	RS	845-8132	1
2	R8 R9	27k 1% 0.125W RN Metal Film Resistor	Axial	Vishay	RS	845-8274	1
2	R10 R11	4k7 1% 0.125W RN55 Metal Film Resistor	Axial	Vishay	RS	851-4875	1
3	R12 R13 R14	10k 1% 0.125W RN55 Metal Film Resistor	Axial	Vishay	RS	830-7447	2
1	R15	47k 1% 0.125W RN55 Metal Film Resistor	Axial	Vishay	RS	851-4879	1
1	R16	100k 1% 0.125W RN55 Metal Film Resistor	Axial	Vishay	RS	830-7659	1
1	R17	2k2 2% 0.25W CCF07 Metal Film resistor	Axial	Vishay	RS	830-8715	1
2	C1 C2	220nF 5% 40VAC 63VDC Polyester Film Capacitor	Radial	Kemet	RS	321-1475	10
1	C3	1nF 10% 100VDC A102 Ceramic Multilayer Capacitor	Axial	Vishay	RS	831-3357	1
2	C4 C5	47µF 10% 20VDC CTS13 Solid MnO2 Tantalum Capacitor	Axial	Vishay	RS	684-5001	1
2	D1 D2	1N4148 100V 300mA Switching Diode	DO-35	Fairchild	RS	843-1562	250
1	ZD1	Zener Diode 2v4 5% 0.5W	DO-35	NXP	RS	544-3503	1
2	Q1 Q2	PN2222ATA 40V 1A hfe>100 ft 300MHz 0.6W NPN Transistor	TO-92	Fairchild	RS	739-0381	10
3	U1 U2 U3	4N25 TR >20% Optocoupler, Transistor Output	DPIP	Isocom	RS	597-289	1
2	U4 U5	CMOS CD4011B Buffered Quad 2-Input NAND Gate	PDIP	TI	RS	526-537	25
1	U6	CMOS CD4069UBE Hex Inverter	PDIP	TI	RS	527-596	25
1	U7	CMOS HEF4060BP 14-Stage Binary Counter 3 -18V	PDIP	NXP	RS	308-938P	1
1	U8	CMOS CD4020BEE4 14-Stage Binary Counter 3 -18V	PDIP	TI	RS	527-445	5
1	U9	LM7809CT Single Linear Voltage Regulator 1A 9V	TO-220	Fairchild	RS	704-4016	5
1	"	Heat Sink TO-220 17°C/W 30.2x30x13mm Screw Mount		ABL	RS	234-2334	1
4	S1 S2 S3 S4	PCB Header 2Way 1Row 2.5A 250VAC KK 254 Series		Molex	RS	679-5583	10
4	P1 P2 P3 P4	Socket Housing, 2Way 1Row KK 254 Series		Molex	RS	296-4934	5
8	" " "	PCB Connector Contact KK 254 Series		Molex	RS	467-598	100
4	S5 S6	PCB Header 4Way 1Row 2,5A 250VAC KK 254 Series		Molex	RS	483-8483	10
2	P5 P6	Socket Housing, 8Way 1Row KK 254 Series		Molex	RS	296-5000	5

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16	“ “	PCB Connector Contact KK 254 Series	Molex	RS	467-598	100
2	S7	PCB Header 3Way 1Row 2,5A 250VAC KK 254 Series	Molex	RS	483-8477	10
1	P7	Socket Housing, 6Way 1Row KK 254 Series	Molex	RS	296-4984	5
6	“ “	PCB Connector Contact KK 254 Series	Molex	RS	467-598	100