

**Midi-Seq-Gates-11**

Qty	Part	Value	Description	Mouser Part Number
1	C1	220UF	Electrolytic	667-EEA-GA1A221B
7	C2, C4, C5, C6, C8, C9, C10	0.1uF	Ceramic, Film	594-K104M15X7RF53H5
1	C3	10UF	Tantalum	581-TAP106K025SCS
1	C7	10UF (2.5R ESR)	Tantalum Low ESR	80-T350E106K025AT
1	D1	1N4002	DIODE	512-1N4002
2	D2, D3	1N4148	DIODE	512-1N4148
1	F1	.75A	Resettable Fuse 0.75A trip	650-LVR033K-2
1	J1		Right Angle IDC socket	517-30316-5002
8	J2, J3, J4, J5, J6, J7, J8, J9		3.5mm mono jack, vertical	502-35RAPC2AV
1	JP1		USB - A Female	571-292303-1
1	JP3, JP4, JP5, JP6		PIN HEADER male 20 pin break into four	517-9611206404AR
1	JP7	MCLR	2 pin JUMPER	517-9611026404AR
1	JP8	ICSP	6 - PIN HEADER right angle	517-9611065604AR
3	R1, R2, R6	10K	RESISTOR, 1/4W 1%	271-10K-RC
1	R3	392R	RESISTOR, 1/4W 1%	271-392-RC
1	R4	240R	RESISTOR, 1/4W 1%	271-240-RC
8	R5, R8, R11, R12, R13, R14, R15, R16	3K	RESISTOR, 1/4W 1%	271-3.0K-RC
1	R7	220R	RESISTOR, 1/4W 1%	271-220-RC
1	R9	100K	RESISTOR, 1/4W 1%	271-100K-RC
1	R10	47K	RESISTOR, 1/4W 1%	271-47K-RC
1	U1	PIC24FJ64GB002SP	User to program	<b>579-P24FJ64GB002ISP</b>
			OR Pre-programmed	Direct from us
1	U2	4099N	8-Bit addressable LATCH	595-CD4099BE
1	U3	OKI-78SR (See Assembly Guide)	4.95W DC/DC Converter (OPTIONAL)	<b>580-OKI78SR51.5W36HC</b>
			Need L shaped package which means pins are straight and at right angle to board	
			You can also try this product from Tindie <a href="https://www.tindie.com/products/ddebeer/5v-1a-switch-mode-voltage-regulator-40v-input">https://www.tindie.com/products/ddebeer/5v-1a-switch-mode-voltage-regulator-40v-input</a>	
1	U4	LM317	VOLTAGE REGULATOR	595-LM317LCLP
2	U5, U6	LM239N	Comparator	595-LM239N
1		28 pin IC socket	Comparator	575-199328
1		16 pin IC socket		575-199316
2		14 pin IC socket		575-199314
1		16 pin polarized power cable		<b>various</b>
				or direct from us