

Radio Shack MIDI Lights – Circuit Board Bill Of Materials

Part	Type	Name	Vendor and Part Number
D1	Signal Diode	1N4148 Diode	Radio Shack 276-1122
D2	LED	Red LED	Radio Shack 276-041
D3	LED	Red LED	Radio Shack 276-041
D4	LED	Red LED	Radio Shack 276-041
D5	LED	Red LED	Radio Shack 276-041
D6	LED	Red LED	Radio Shack 276-041
D7	LED	Red LED	Radio Shack 276-041
D8	LED	Red LED	Radio Shack 276-041
D9	LED	Red LED	Radio Shack 276-041
D10	LED	Red LED	Radio Shack 276-041
D11	LED	Red LED	Radio Shack 276-041
D12	LED	Red LED	Radio Shack 276-041
D13	LED	Red LED	Radio Shack 276-041
D14	LED	Red LED	Radio Shack 276-041
D15	LED	Red LED	Radio Shack 276-041
D16	LED	Red LED	Radio Shack 276-041
D17	LED	Red LED	Radio Shack 276-041
D18	Rectifier Diode	1N4004	Radio Shack 276-1103
D19	Rectifier Diode	1N4004	Radio Shack 276-1103
D20	Rectifier Diode	1N4004	Radio Shack 276-1103
D21	Rectifier Diode	1N4004	Radio Shack 276-1103
D22	Rectifier Diode	1N4004	Radio Shack 276-1103
D23	Rectifier Diode	1N4004	Radio Shack 276-1103
D24	Rectifier Diode	1N4004	Radio Shack 276-1103
D25	Rectifier Diode	1N4004	Radio Shack 276-1103
D26	Rectifier Diode	1N4004	Radio Shack 276-1103
D27	Rectifier Diode	1N4004	Radio Shack 276-1103
D28	Rectifier Diode	1N4004	Radio Shack 276-1103
D29	Rectifier Diode	1N4004	Radio Shack 276-1103
D30	Rectifier Diode	1N4004	Radio Shack 276-1103
D31	Rectifier Diode	1N4004	Radio Shack 276-1103
D32	Rectifier Diode	1N4004	Radio Shack 276-1103
D33	Rectifier Diode	1N4004	Radio Shack 276-1103
F1	Fuse	15A Fuse	Digikey F1498, F2649
J1	Connector	MIDI IN	Sparkfun PRT-09536
J2	Connector	0.1" Pin Headers	Sparkfun PRT-00116
J3	Connector	0.1" Pin Headers	Sparkfun PRT-00116
J4	Connector	0.1" Pin Headers	Sparkfun PRT-00116
J5	Connector	Channel 1 Terminals	Radio Shack 276-1388
J6	Connector	Channel 2 Terminals	Radio Shack 276-1388
J7	Connector	Channel 3 Terminals	Radio Shack 276-1388
J8	Connector	Channel 4 Terminals	Radio Shack 276-1388
J9	Connector	Channel 5 Terminals	Radio Shack 276-1388
J10	Connector	Channel 6 Terminals	Radio Shack 276-1388
J11	Connector	Channel 7 Terminals	Radio Shack 276-1388
J12	Connector	Channel 8 Terminals	Radio Shack 276-1388
J13	Connector	Channel 9 Terminals	Radio Shack 276-1388
J14	Connector	Channel 10 Terminals	Radio Shack 276-1388
J15	Connector	Channel 11 Terminals	Radio Shack 276-1388

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J16	Connector	Channel 12 Terminals	Radio Shack 276-1388
J17	Connector	Channel 13 Terminals	Radio Shack 276-1388
J18	Connector	Channel 14 Terminals	Radio Shack 276-1388
J19	Connector	Channel 15 Terminals	Radio Shack 276-1388
J20	Connector	Channel 16 Terminals	Radio Shack 276-1388
J21	Connector	0.1" Pin Headers	Sparkfun PRT-00116
J22	Connector	12VDC Supply	Digikey CP-202A-ND
J23	Connector	0.1" Pin Headers	Sparkfun PRT-00116
J24	Connector	0.1" Pin Headers	Sparkfun PRT-00116
J25	Connector	Lighting Power Input	Digikey ED2677
R1	Resistor (1/4W)	220	Radio Shack 271-1313
R2	Resistor (1/4W)	220	Radio Shack 271-1313
R3	Resistor (1/4W)	10K	Radio Shack 271-1335
R4	Resistor (1/2W)	560	Radio Shack 271-1116
R5	Resistor (1/4W)	10K	Radio Shack 271-1335
R6	Resistor (1/2W)	560	Radio Shack 271-1116
R7	Resistor (1/4W)	10K	Radio Shack 271-1335
R8	Resistor (1/2W)	560	Radio Shack 271-1116
R9	Resistor (1/4W)	10K	Radio Shack 271-1335
R10	Resistor (1/2W)	560	Radio Shack 271-1116
R11	Resistor (1/4W)	10K	Radio Shack 271-1335
R12	Resistor (1/2W)	560	Radio Shack 271-1116
R13	Resistor (1/4W)	10K	Radio Shack 271-1335
R14	Resistor (1/4W)	220	Radio Shack 271-1313
R15	Resistor (1/4W)	10K	Radio Shack 271-1335
R16	Resistor (1/2W)	560	Radio Shack 271-1116
R17	Resistor (1/4W)	10K	Radio Shack 271-1335
R18	Resistor (1/2W)	560	Radio Shack 271-1116
R19	Resistor (1/4W)	10K	Radio Shack 271-1335
R20	Resistor (1/2W)	560	Radio Shack 271-1116
R21	Resistor (1/4W)	10K	Radio Shack 271-1335
R22	Resistor (1/2W)	560	Radio Shack 271-1116
R23	Resistor (1/4W)	10K	Radio Shack 271-1335
R24	Resistor (1/2W)	560	Radio Shack 271-1116
R25	Resistor (1/4W)	10K	Radio Shack 271-1335
R26	Resistor (1/2W)	560	Radio Shack 271-1116
R27	Resistor (1/4W)	10K	Radio Shack 271-1335
R28	Resistor (1/2W)	560	Radio Shack 271-1116
R29	Resistor (1/4W)	10K	Radio Shack 271-1335
R30	Resistor (1/2W)	560	Radio Shack 271-1116
R31	Resistor (1/4W)	10K	Radio Shack 271-1335
R32	Resistor (1/2W)	560	Radio Shack 271-1116
R33	Resistor (1/4W)	10K	Radio Shack 271-1335
R34	Resistor (1/2W)	560	Radio Shack 271-1116
R35	Resistor (1/4W)	10K	Radio Shack 271-1335
R36	Resistor (1/4W)	10K	Radio Shack 271-1335
R37	Resistor (1/4W)	100	Radio Shack 271-1311
R38	Resistor (1/4W)	100	Radio Shack 271-1311
R39	Resistor (1/4W)	100K	Radio Shack 271-1347
R40	Resistor (1/4W)	100K	Radio Shack 271-1347
R41	Resistor (1/4W)	100K	Radio Shack 271-1347
R42	Resistor (1/4W)	100K	Radio Shack 271-1347

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R43	Resistor (1/4W)	100K	Radio Shack 271-1347
R44	Resistor (1/4W)	100K	Radio Shack 271-1347
R45	Resistor (1/4W)	100K	Radio Shack 271-1347
R46	Resistor (1/4W)	100K	Radio Shack 271-1347
R47	Resistor (1/4W)	100K	Radio Shack 271-1347
R48	Resistor (1/4W)	100K	Radio Shack 271-1347
R49	Resistor (1/4W)	100K	Radio Shack 271-1347
R50	Resistor (1/4W)	100K	Radio Shack 271-1347
R51	Resistor (1/4W)	100K	Radio Shack 271-1347
R52	Resistor (1/4W)	100K	Radio Shack 271-1347
R53	Resistor (1/4W)	100K	Radio Shack 271-1347
R54	Resistor (1/4W)	100K	Radio Shack 271-1347
RLY1	Relay	12VDC Relay	Radio Shack 275-241
RLY2	Relay	12VDC Relay	Radio Shack 275-241
RLY3	Relay	12VDC Relay	Radio Shack 275-241
RLY4	Relay	12VDC Relay	Radio Shack 275-241
RLY5	Relay	12VDC Relay	Radio Shack 275-241
RLY6	Relay	12VDC Relay	Radio Shack 275-241
RLY7	Relay	12VDC Relay	Radio Shack 275-241
RLY8	Relay	12VDC Relay	Radio Shack 275-241
RLY9	Relay	12VDC Relay	Radio Shack 275-241
RLY10	Relay	12VDC Relay	Radio Shack 275-241
RLY11	Relay	12VDC Relay	Radio Shack 275-241
RLY12	Relay	12VDC Relay	Radio Shack 275-241
RLY13	Relay	12VDC Relay	Radio Shack 275-241
RLY14	Relay	12VDC Relay	Radio Shack 275-241
RLY15	Relay	12VDC Relay	Radio Shack 275-241
RLY16	Relay	12VDC Relay	Radio Shack 275-241
SW1	Switch	Run / Program Switch	Digikey 450-1598-ND
SW2	Switch	SPDT Center Off Toggle Switch	Radio Shack 275-0325
SW3	Switch	SPST Toggle Switch	Radio Shack 275-0324
T1	Transistor	2N2222	Radio Shack 276-2009
T2	Transistor	2N2222	Radio Shack 276-2009
T3	Transistor	2N2222	Radio Shack 276-2009
T4	Transistor	2N2222	Radio Shack 276-2009
T5	Transistor	2N2222	Radio Shack 276-2009
T6	Transistor	2N2222	Radio Shack 276-2009
T7	Transistor	2N2222	Radio Shack 276-2009
T8	Transistor	2N2222	Radio Shack 276-2009
T9	Transistor	2N2222	Radio Shack 276-2009
T10	Transistor	2N2222	Radio Shack 276-2009
T11	Transistor	2N2222	Radio Shack 276-2009
T12	Transistor	2N2222	Radio Shack 276-2009
T13	Transistor	2N2222	Radio Shack 276-2009
T14	Transistor	2N2222	Radio Shack 276-2009
T15	Transistor	2N2222	Radio Shack 276-2009
T16	Transistor	2N2222	Radio Shack 276-2009
U1	IC	6N138 Optocoupler	Digikey 6N138QT-ND
U2	IC	74HC595 Shift Register	Digikey 296-1600-5-ND
U3	IC	74HC595 Shift Register	Digikey 296-1600-5-ND