

Mute Relay PCB Bill of Materials

Qty	Ref Des	Description	Mfg	Mfg PN	Vendor	Vendor PN	Cost Ea	Cost Ext	Notes
3	C1, C2, C5	Cap elect 330uF 25V 10mm dia 5mm LS	Nichicon	UVZ1E331MPD	Digi-Key	493-1303-ND	\$ 0.33	\$ 0.99	Anything close is OK
2	C3, C6	Cap tant radial 15uF 10V	AVX	TAP156K010SCS	Digi-Key	478-1856-ND	\$ 0.79	\$ 1.58	Needs to be Ta for low leakage
1	C4	Cap tant radial 1uF 35V	AVX	TAP105K025SCS	Digi-Key	478-1834-ND	\$ 0.63	\$ 0.63	Needs to be Ta for low leakage
4	C7, C8, C9, C10	Cap ceramic 0.1uF 50V	Kemet	C320C104M5R5TA	Digi-Key	399-9776-ND	\$ 0.29	\$ 1.16	Anything close is OK
4	D1, D2, D3, D4	Diode Schottly 30V 1A DO41	On Semi	1N5821G	Digi-Key	1N5821GOS-ND	\$ 0.45	\$ 1.80	Others OK
2	D5, D6	Diode 1N4148	Fairchild	1N4148TA	Digi-Key	1N4148RACT-ND	\$ 0.10	\$ 0.20	
1	K1	SS Relay DIP4 MOSFET	Toshiba	TLP222AF	Digi-Key	TLP222AF-ND	\$ 1.08	\$ 1.08	Not needed if you don't want the flashing LED
2	K2, K3	Relay SPDT 5V	Omron	G6E-134P-USDC5	Digi-Key	Z3668-ND	\$ 4.38	\$ 8.76	
1	Q1	Transistor NPN 2N3904 TO92	Fairchild	2N3904BU	Digi-Key	1N3904FS-ND	\$ 4.38	\$ 4.38	
1	R1	Res 300 ohm 1/4W	generic		Digi-Key	301XBK-ND	\$ 0.10	\$ 0.10	5% OK
1	R2	Res 4.7 Ohm 1W	generic		Digi-Key	4.7WCT-ND	\$ 0.18	\$ 0.18	5% OK
1	R3	Res 470 ohm 1/4W	generic		Digi-Key	475XBK-ND	\$ 0.10	\$ 0.10	5% OK
1	R4	Res 2M 1/4W	generic		Digi-Key	2.0MQBK-ND	\$ 0.10	\$ 0.10	5% OK
1	R5	Res 470k 1/4W	generic		Digi-Key	475KXBK-ND	\$ 0.10	\$ 0.10	5% OK
1	R6	Res 200k 1/4W	generic		Digi-Key	200KXBK-ND	\$ 0.10	\$ 0.10	5% OK
2	R7, R8	Res 2.49k 1/4W 1%	generic		Digi-Key	2.49KXBK-ND	\$ 0.10	\$ 0.20	5% OK
1	U1	IC LDO 5V TO-220	TI	LM2904CT-5	Digi-Key	LM2940CT-5.0/NOP	\$ 1.64	\$ 1.64	
2	U2, U3	IC CMOS timer DIP8	TI	TLC555CP	Digi-Key	296-1857-5-ND	\$ 0.85	\$ 1.70	Only one needed if no flashing LED
1		PCB	pmillett	mute			\$ 18.00	\$ 18.00	www.pmillett.com
Total							\$ 42.80		