

Toggle Switches

Miniature



Specifications:

Contact rating	: Dependent upon contact material.
Mechanical life	: 40,000 make and break cycles.
Maximum contact resistance	: 10m Ω .
Initial voltage	: 2 to 4V dc.
Current	: 10mA for both silver and gold plated contacts.
Minimum Insulation resistance:	: 1,000M Ω .
Dielectric strength	: 1,000Vrms at sea level.
Operating temperature	: -30°C to 85°C.

Materials:

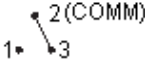
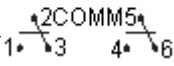
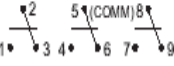
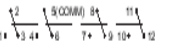
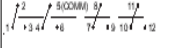
Case	: Diallyl phthalate (DAP) (UL94v-0).
Actuator	: Brass, chrome plated.
Bushing	: Brass, nickel plated.
Housing	: Stainless steel.
Switch support	: Brass, tin plated.
Terminal/contact	: Silver or gold plated.

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Switch Function

Number of Poles	UL/CSA Model Numbers	Model Number	Switch Function			Connected Terminals/Schematic		
			Position 1	Position 2	Position 3	Position 1	Position 2	Position 3
								
SP	Q1111	1MS1	On	None	ON	2 to 3	N/A	2 to 1
	Q1112	1MS2		None	MOM			Open
	Q1113	1MS3	MOM	Off	ON			
	Q1114	1MS4		MOM	MOM			
	Q1115	1MS5	On	None	MOM	2 to 3, 5 to 8	N/A	2 to 1, 5 to 4
Q1121	1MD1	ON						
DP	Q1122	1MD2		MOM	None	MOM		Open
	Q1123	1MD3	Off		ON			
	Q1124	1MD4		MOM	MOM			
	Q1125	1MD5	On	MOM	2 to 3, 5 to 6	2 to 3, 5 to 4	2 to 1, 5 to 4	
	Q1126	1MD6		On				
	Q1127	1MD7	MOM	On				MOM
	Q1128	1MD8		MOM				
	3P	Q1131	1M31	On	None	On		N/A
4P	Q1141	1M41						

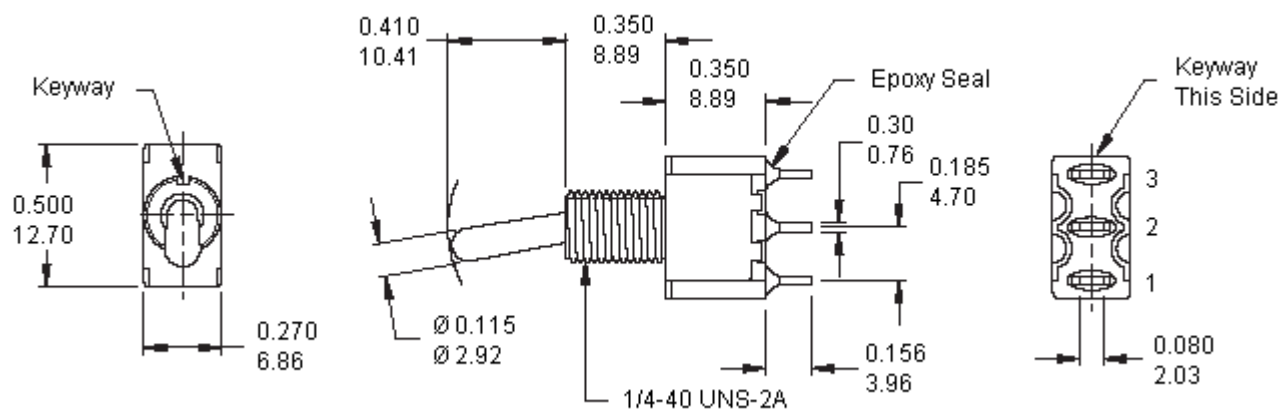
Pole Options

SPDT



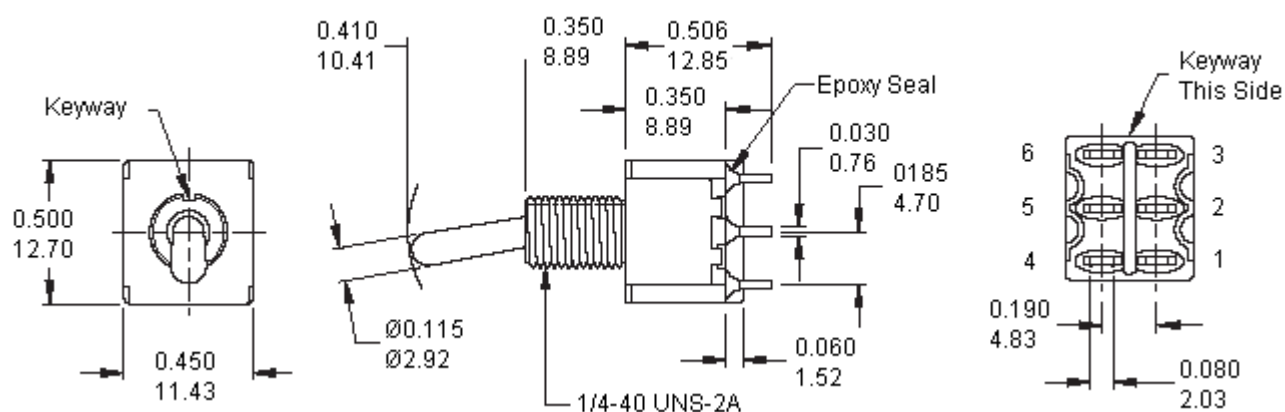
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Pole Options

DPDT



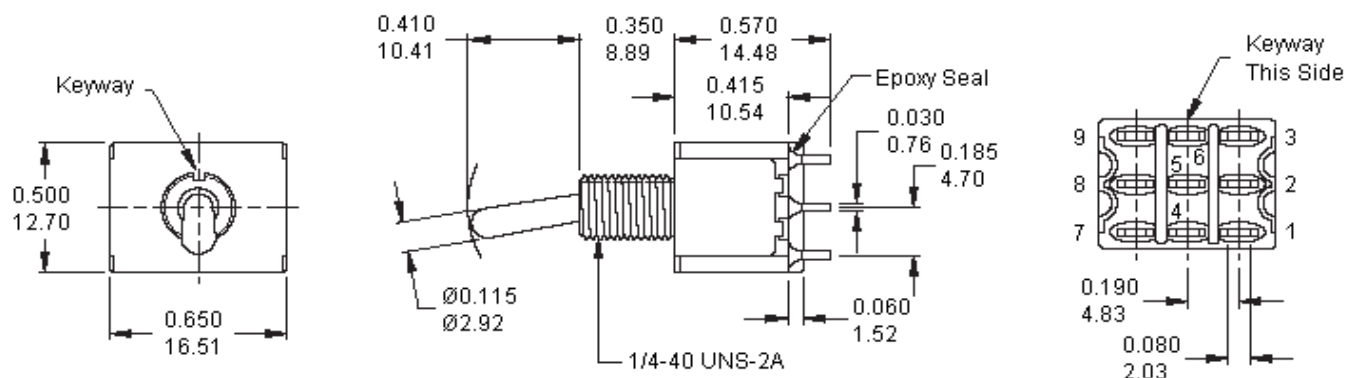
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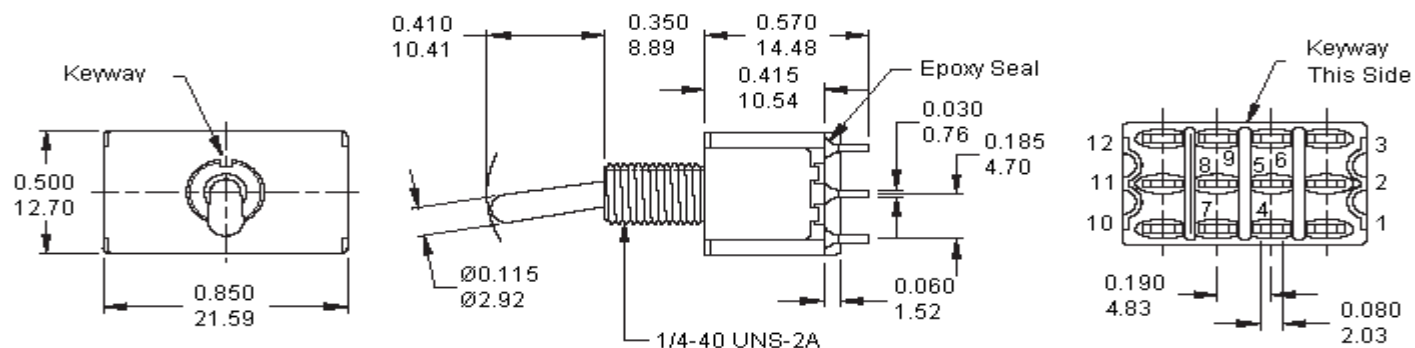
Pole Options

3PDT



Pole Options

4PDT



Toggle Switches

Miniature



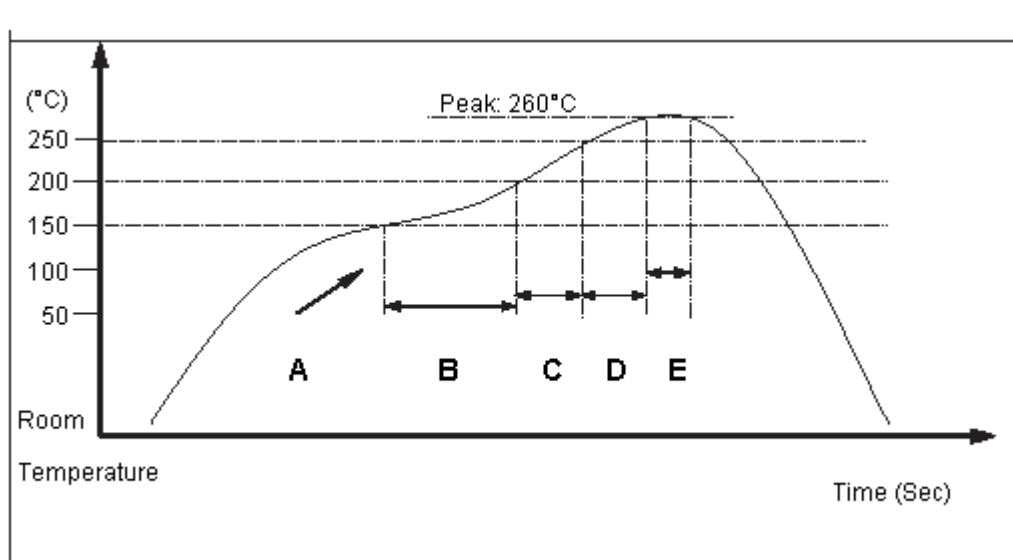
Soldering Process:

Manual soldering : Use soldering iron of 30 watts, controlled at 350°C approximately 5 seconds while applying solder.
 Wave soldering : Recommended soldering temperature : 260 ±5°C.
 : Duration of solder immersion : 5 ±1 seconds. (PCB is 1.6mm in thickness).

Soldering : Vapour Phase

Temperature Profile

Zone	Room Temperature	Time (seconds)
Pre-heat (A)	150°C	Minimum 120 seconds
Soak (B)	180°C to 200°C	Minimum 150 seconds
Peak (C)	200°C to 235°C	Minimum 30 seconds
Peak (D)	235°C to 260°C	Minimum 40 seconds
Peak (E)	260°C	Maximum 10 seconds



Part Number Table

Description	Part Number
Switch, PCB, SPDT, VERT	1MS1T2B4V2RE
Switch, PCB, SPDT, VERT	1MS3T2B4V2RE
Switch, PCB, SPDT, VERT	1MS2T2B4V2RE
Switch, PCB, SPDT, VERT	1MS4T2B4V2RE
Switch, PCB, SPDT, VERT	1MS5T2B4V2RE
Switch, PCB, DPDT, VERT	1MD1T2B4V3RE
Switch, PCB, SPDT, HORIZ	1MS1T2B4M6RE
Switch, PCB, SPDT, HORIZ	1MS3T2B4M6RE

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Part Number Table

Description	Part Number
Switch, PCB, SPDT, HORIZ	1MS4T2B4M6RE
Switch, PCB, DPDT, HORIZ	1MD1T2B4M6RE
Switch, PCB, DPDT, HORIZ	1MD3T2B4M6RE
Switch, PCB, SPDT, HORIZ	1MS1T2B4M7RE
Switch, PCB, SPDT, HORIZ	1MS3T2B4M7RE
Switch, PCB, DPDT, HORIZ	1MD1T2B4M7RE
Switch, SPDT	1MS1T1B5M1QE
Switch, SPDT	1MS3T1B5M1QE
Switch, DPDT	1MD1T1B5M1QE
Switch, DPDT	1MD3T1B5M1QE
Switch, SPDT	1MS1T1B1M1QE
Switch, SPDT	1MS1T1B1M1RE
Switch, SPDT	1MS3T1B1M1QE
Switch, SPDT	1MS3T1B1M1RE
Switch, SPDT	1MS4T1B1M1QE
Switch, SPDT	1MS4T1B1M1RE
Switch, SPDT	1MS5T1B1M1QE
Switch, SPDT	1MS5T1B1M1RE
Switch, SPDT	1MS2T1B1M1QE
Switch, SPDT	1MS2T1B1M1RE
Switch, DPDT	1MD1T1B1M1QE
Switch, DPDT	1MD1T1B1M1RE
Switch, DPDT	1MD3T1B1M1QE
Switch, DPDT	1MD3T1B1M1RE
Switch, DPDT	1MD4T1B1M1QE
Switch, DPDT	1MD4T1B1M1RE
Switch, DPDT	1MD5T1B1M1QE
Switch, DPDT	1MD5T1B1M1RE
Switch, 3PDT	1M31T1B1M1QE
Switch, 4PDT	1M41T1B1M1QE
Switch, SPDT	1MS1T6B11M1QE
Switch, SPDT	1MS3T6B11M1QE
Switch, SPDT	1MS4T6B11M1QE
Switch, SPDT	1MS5T6B11M1QE
Switch, SPDT	1MS2T6B11M1QE
Switch, DPDT	1MD1T6B11M1QE
Switch, DPDT	1MD3T6B11M1QE
Switch, 3PDT	1M31T6B11M1QE
Switch, 4PDT	1M41T6B11M1QE

