

SPECIFICATIONS

CONTACT RATING: Max 0.4 VA max @ 48 VAC or DC

MECHANICAL LIFE: minimum 40,000 operations.

CONTACT RESISTANCE: 50 mΩ max.

INSULATION RESISTANCE: 1,000 MΩ min.

DIELECTRIC STRENGTH: 500 Vrms min. @sea level.

OPERATING TEMPERATURE: -20°C to 85°C.

DEGREE OF PROTECTION: IP67

MATERIALS

ACTUATOR: Brass,chrome plated,internal O-ring seal.

Standard for all actuators.

BUSHING & HOUSING: SPCC

CASE: Glass filled nylon 6/6, flame retardant,heat srabilized (UL94v-0)

SWITCH SUPPORT: Brass,tin plated.







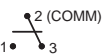
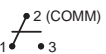


CONTACT / TERMINALS: Phosphor bronze gold - plated over nickel barrier.

TERMINAL SEAL: Epoxy

HOW TO ORDER

MODEL NO.	TERMINATIONS	CONTACT MATERIAL	SEAL	RoHS SOLDERING
<div> <div></div> <div></div> <div></div> <div></div> <div></div> </div> <p>Model NO.</p> <p>2TES1 SP On-None-On</p> <p>2TES2 SP On-None-Mom.</p> <p>2TES3 SP On-Off -On</p> <p>2TES4 SP Mom.-Off-Mom.</p> <p>2TES5 SP On-Off-Mom.</p> <p>2TES9 SP Off-None-On</p> <p>2TED1 DP On-None-On</p> <p>2TED2 DP On-None-Mom.</p> <p>2TED3 DP On-Off -On</p> <p>2TED4 DP Mom.-Off-Mom.</p> <p>2TED5 DP On-Off-Mom.</p>	<div> <div></div> <div></div> <div></div> </div> <p>Terminations</p> <p>M2 PC thru-hole</p> <p>M6 Right angle, PC thru-hole</p> <p>M7 Vertical right angle, PC thru-hole</p>	<div> <div></div> </div> <p>Contact material</p> <p>R Gold</p> <p>G Gold,pure-tin</p>	<div> <div>E</div> </div> <p>Seal</p> <p>E EPOXY (std)</p>	<div> <div></div> </div> <p>RoHS soldering</p> <p>□ RoHS Compliant</p> <p>S RoHS & Lead Free</p> <p>F Halogen Free+RoHS</p>

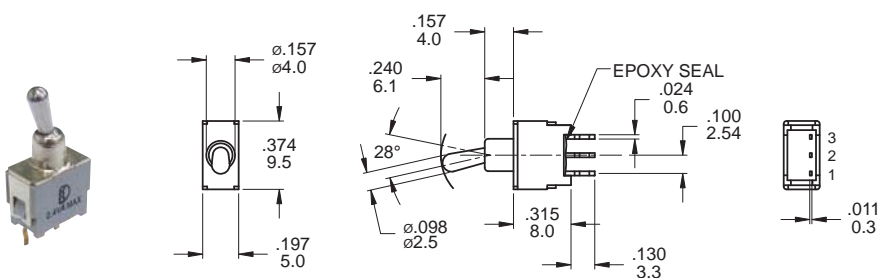
SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS / SCHEMATIC		
		POS.1	POS.2	POS.3	POS.1	POS.2	POS.3
							
SP	2TES1	ON	NONE	ON	<div>2-3</div> 	N/A	<div>2-1</div> 
	2TES2	ON	NONE	MOM		OPEN	
	2TES3	ON	OFF	ON			
	2TES4	MOM	OFF	MOM			
	2TES5	ON	OFF	MOM			
	2TES9	OFF	NONE	ON	OPEN	N/A	2-1
DP	2TED1	ON	NONE	ON	<div>2-3,5-6</div> 	N/A	<div>2-1,5-4</div> 
	2TED2	ON	NONE	MOM		OPEN	
	2TED3	ON	OFF	ON			
	2TED4	MOM	OFF	MOM			
	2TED5	ON	OFF	MOM			

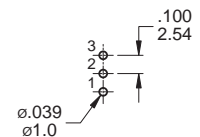
MOM=MOMENTARY

POLE OPTIONS

M2



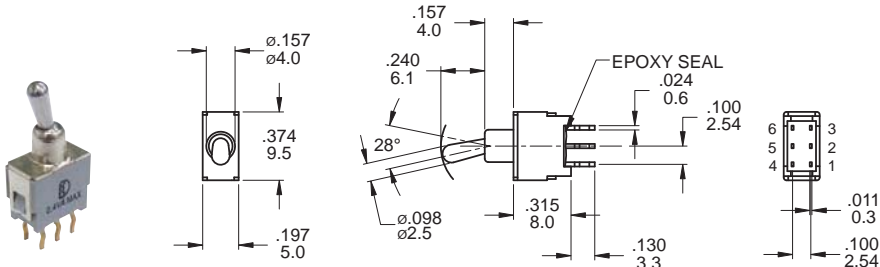
P.C. MOUNTING



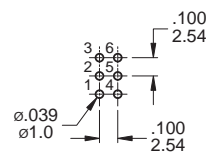
SPDT

Part No. Shown : 2TES1-M2RES

M2



P.C. MOUNTING



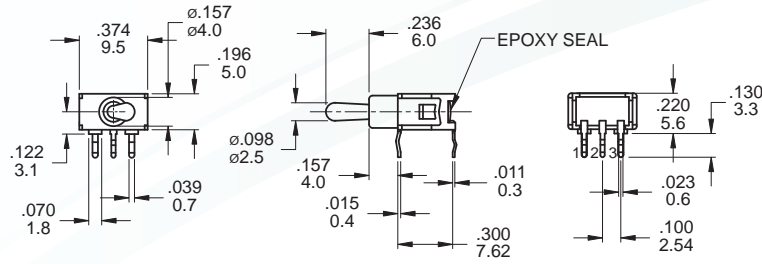
DPDT

Part No. Shown : 2TED1-M2RES

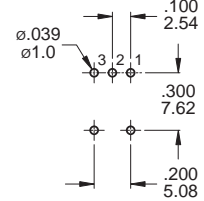
2TE
Toggle Switches



M6



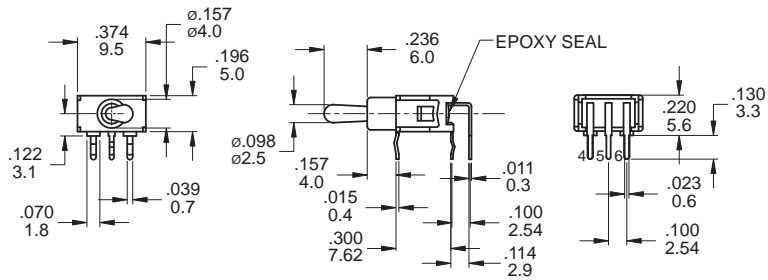
P.C. MOUNTING



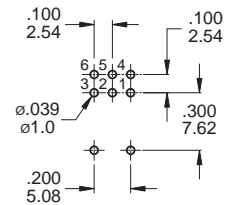
SPDT

Part No. Shown : 2TES1-M6RES

M6



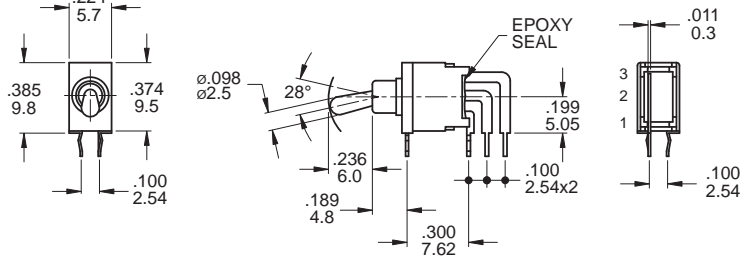
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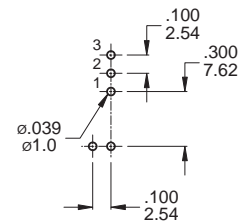
DPDT

Part No. Shown : 2TED1-M6RES

M7



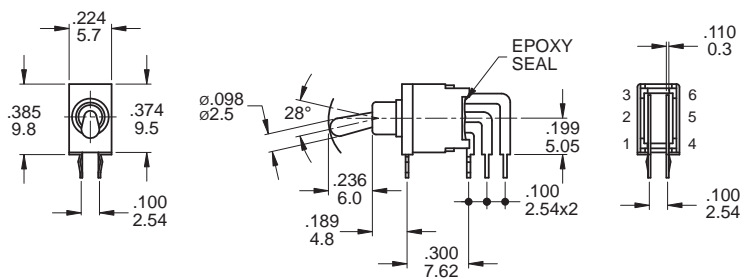
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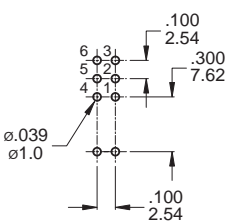
SPDT

Part No. Shown : 2TES1-M7RES

M7



P.C. MOUNTING



DPDT

Part No. Shown : 2TED1-M7RES

SOLDERING PROCESSES

WAVE SOLDERING: Recommended Soldering Temperature: $260 \pm 5^{\circ}\text{C}$

Duration of Solder Immersion: Max 5 sec.(PCB is 1.6mm in thickness)