



2U
Toggle Switches



SPECIFICATIONS

MECHANICAL LIFE: 40,000 make-and-break cycles.

CONTACT RATING: 0.4 VA max. @ 20V AC or DC max.

CONTACT RESISTANCE: Below 100 mΩ typ. (initial value)
@ 2-4V DC, 100 mA.

INSULATION RESISTANCE: 500 MΩ min./500VDC

DIELECTRIC STRENGTH: 500 Vrms min. @ sea level. (initial value)

OPERATING TEMPERATURE: -30°C to 85°C

MATERIALS

HOUSING AND BASE: Glass filled nylon 6/6 or 4/6, flame retardant
, heat stabilized (UL94V-0)

ACTUATOR: Glass filled nylon 6/6, flame retardant, heat stabilized
(UL94V-0), internal o-ring sealed.

SWITCH SUPPORT: Steel with Sn plated.

CONTACT: Phosphor bronze with gold plated over nickel plated.

TERMINALS: Brass with gold plated over nickel plated.

HOW TO ORDER

MODEL NO.	ACTUATOR	HOUSING	TERMINAL TYPE	TERMINAL PLATING	SEAL	RoHS SOLDERING
SP 2US1 ON-NONE-ON 2US3 ON-OFF-ON 2US9 OFF-NONE-ON DP 2UD1 ON-NONE-ON 2UD3 ON-OFF-ON 2UD9 OFF-NONE-ON	T1 3.80×1.70(STD) T29 3.80×2.00, Gray *	A1 1.60 high (STD) A2 1.60 high, Black *	M2 PC thru-hole M6 Right angle, PC thru-hole M7 Vertical right angle, PC thru-hole MT1 SMT(STD) **	R Gold	E EPOXY (std) N NO EPOXY	S RoHS & Lead Free

* T29 actuator can only used with A2 housing, this option is not available with 2US9

** The terminal type of MT1 are not suitable for 2US9.

EXAMPLE: 2US1T1A1M2RES

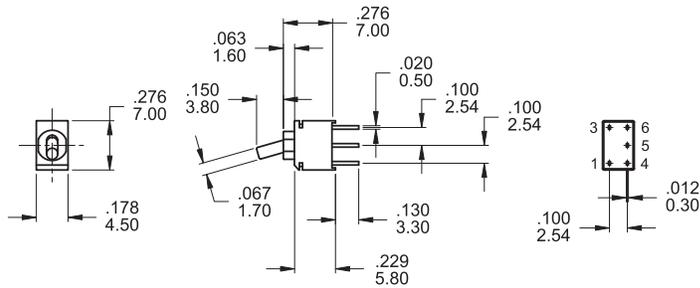


▼ SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS / SCHEMATIC		
		POS.1	POS.2	POS.3	POS.1	POS.2	POS.3
SP	2US1	ON	NONE	ON	5-6	N/A	5-4
	2US3	ON	OFF	ON		OPEN	
	2US9*	OFF	NONE	ON	OPEN	N/A	4-6
DP	2UD1	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4
	2UD3	ON	OFF	ON		OPEN	
	2UD9**	OFF	NONE	ON	OPEN	N/A	

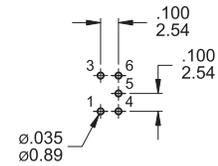
* Omit terminal 5
 ** Omit terminal 2 & 5

▼ POLE OPTIONS



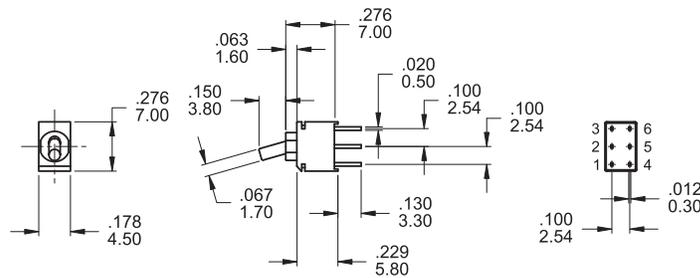
Note: Pins 1 and 3 not connected

PCB MOUNTING

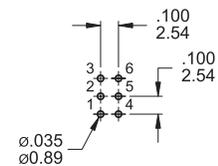


SPDT

Model name. 2US1T1A1M2RES



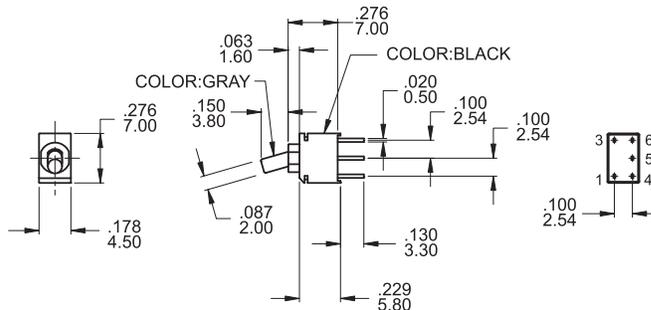
PCB MOUNTING



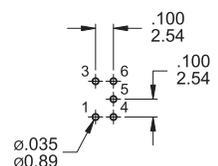
DPDT

Model name. 2UD1T1A1M2RES

T29



PCB MOUNTING



Note: Not available for 2US9.

Note: Pins 1 and 3 not connected

SPDT

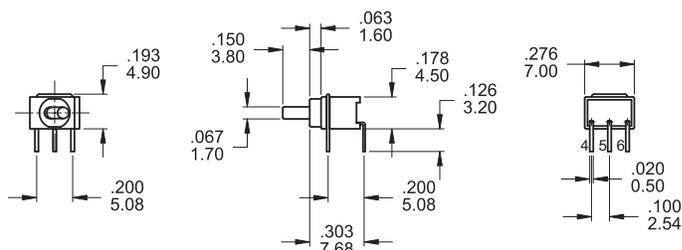
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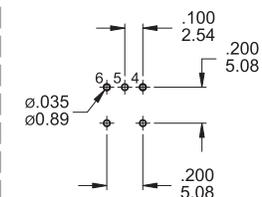
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▼ **TERMINAL OPTIONS**

M6



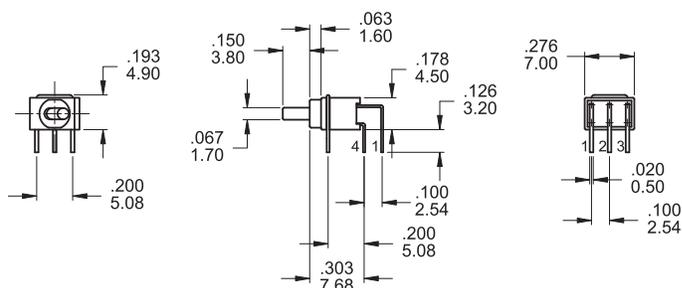
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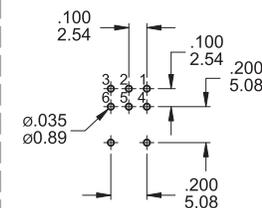
SPDT

Model name. 2US1T1A1M6RES

M6



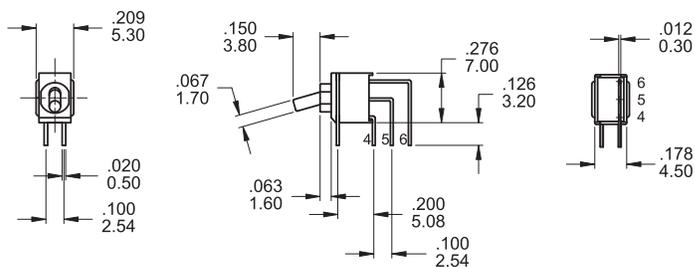
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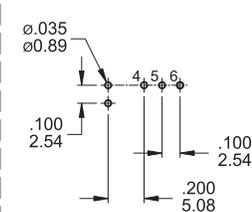
DPDT

Model name. 2UD1T1A1M6RES

M7



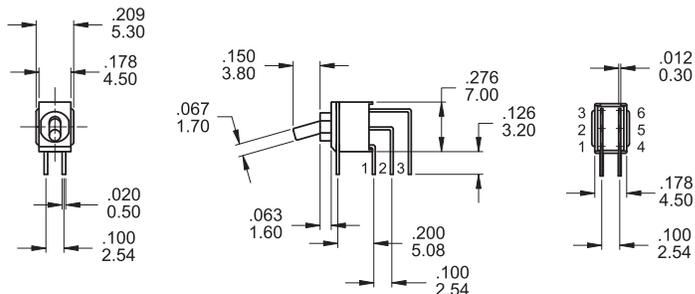
PCB MOUNTING



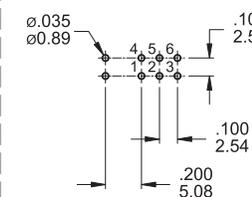
SPDT

Model name. 2US1T1A1M7RES

M7



PCB MOUNTING

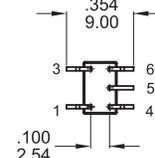
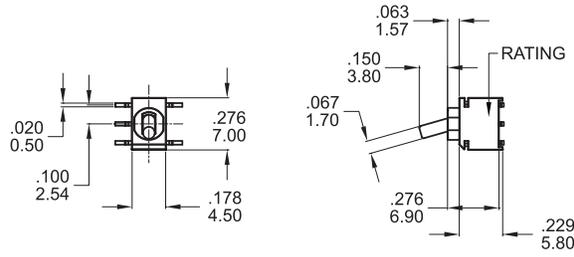


DPDT

Model name. 2UD1T1A1M7RES



MT1

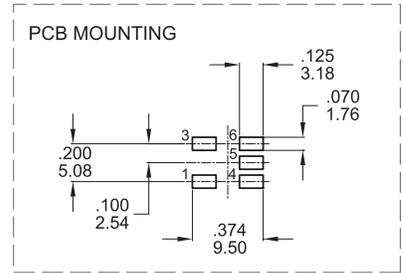


Note: Pins 1 and 3 not connected

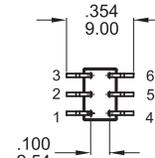
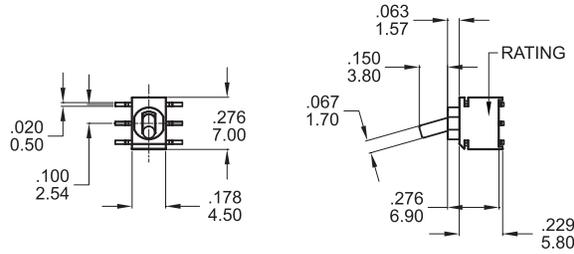
Note: Not available for 2US9.

SPDT

Model name. 2US1T1A1MT1RES



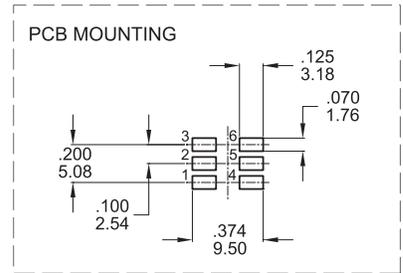
MT1



Note: Not available for 2UD9.

DPDT

Model name. 2UD1T1A1MT1RES



▼ **SOLDERING PROCESS**

WAVE SOLDERING: Recommend soldering temperature: 260 ± 5°C

Duration of solder immersion: Max. 5 sec. (PCB thickness is 1.6mm)