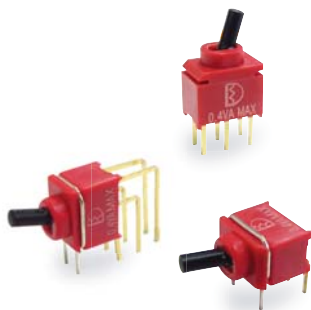




KSD-2U
Toggle Switches

KSD

SWITCH CONNECTOR



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

* 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: KSD-2US1T1A1M2RES



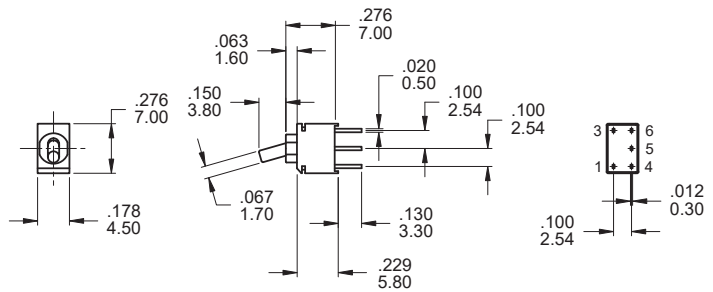
▼ SWITCH FUNCTION

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

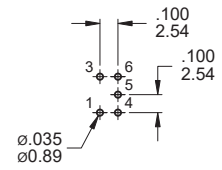
** Omit terminal 2 & 5

▼ POLE OPTIONS



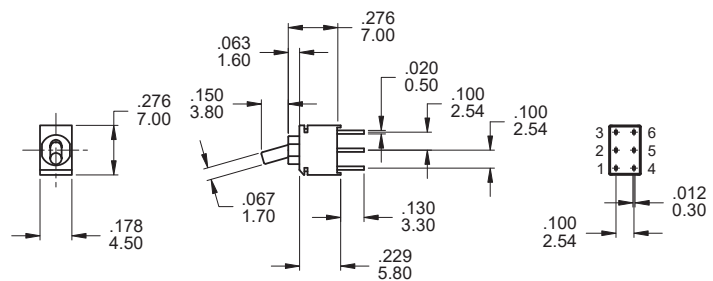
Note: Pins 1 and 3 not connected

PCB MOUNTING

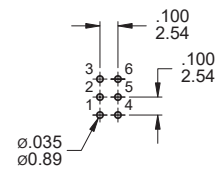


SPDT

Model name. KSD-2US1T1A1M2RES



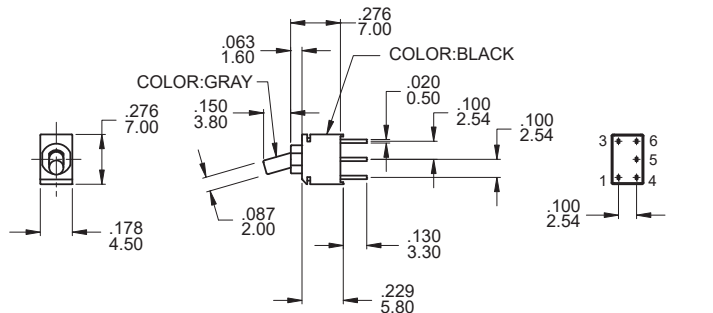
PCB MOUNTING



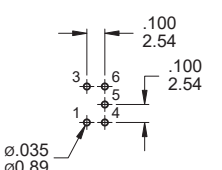
DPDT

Model name. KSD-2UD1T1A1M2RES

T29



PCB MOUNTING



Note: Not available for 2US9.

Note: Pins 1 and 3 not connected

SPDT

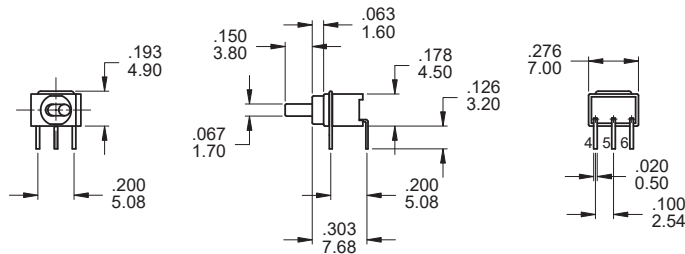
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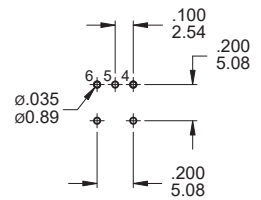
KSD-2U
Toggle Switches

▼ TERMINAL OPTIONS

M6



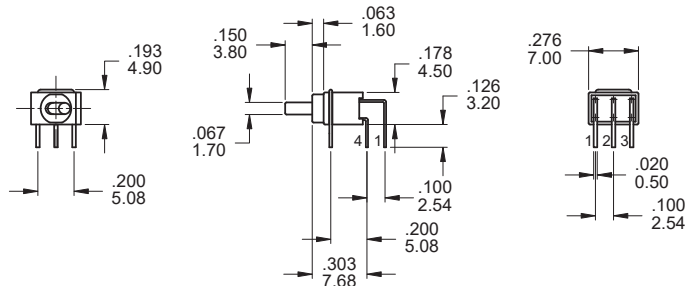
PCB MOUNTING



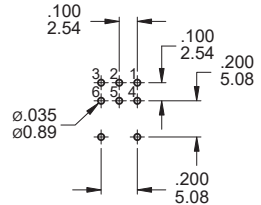
SPDT

Model name. KSD-2US1T1A1M6RES

M6



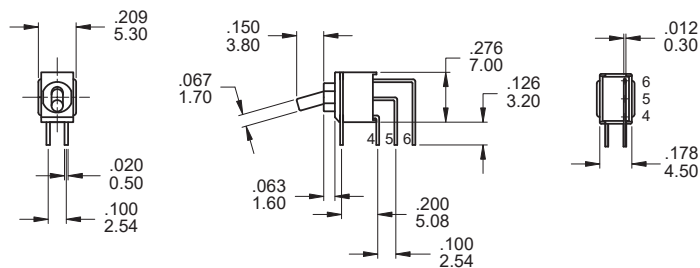
PCB MOUNTING



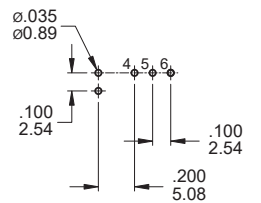
DPDT

Model name. KSD-2UD1T1A1M6RES

M7



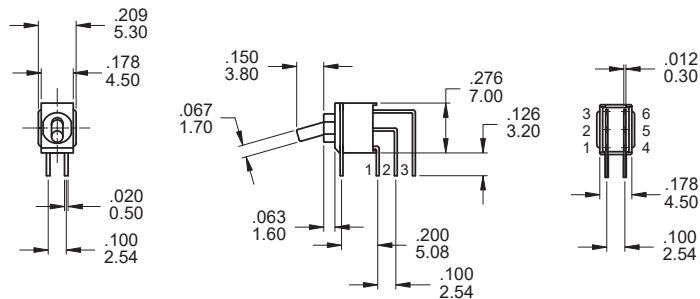
PCB MOUNTING



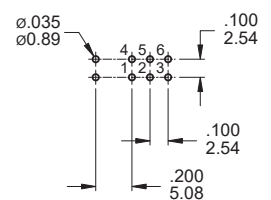
SPDT

Model name. KSD-2US1T1A1M7RES

M7



PCB MOUNTING

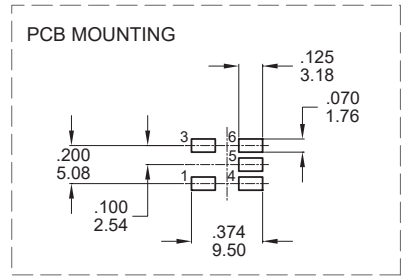
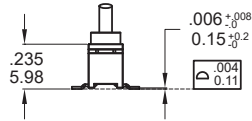
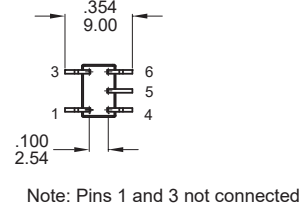
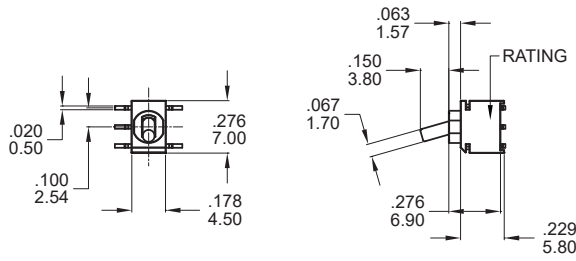


DPDT

Model name. KSD-2UD1T1A1M7RES



MT1

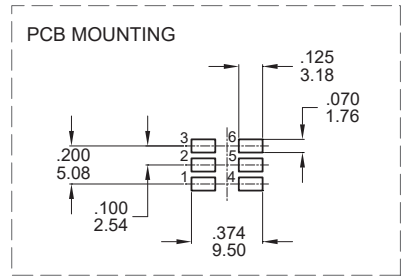
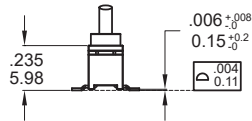
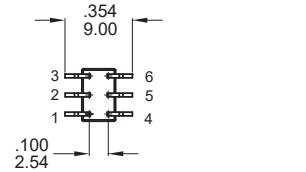
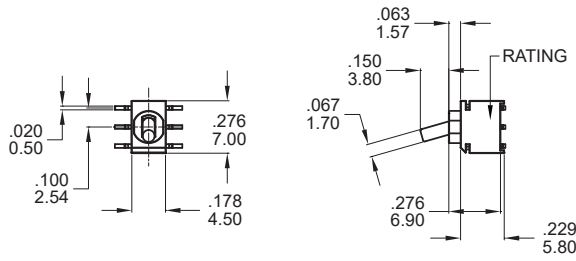


Note: Not available for 2US9.

SPDT

Model name. KSD-2US1T1A1MT1RES

MT1



Note: Not available for 2UD9.

DPDT

Model name. KSD-2UD1T1A1MT1RES

▼ SOLDERING PROCESS

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

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