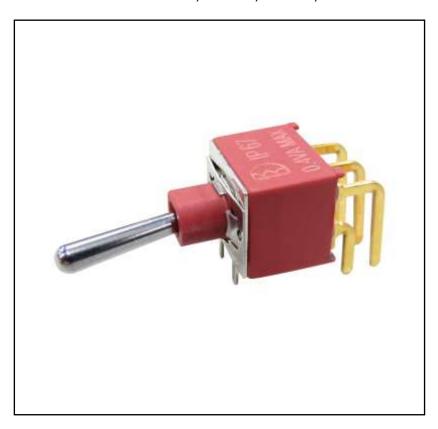
FEATURES

- UL, RoHS and Lead-Free compliance
- IP67
- Wide variety of switching functions: SPDT, DPDT, 3PDT
- Vertical, right angle and vertical right angle mounting brackets
- Customization available

RS PRO

Sealed Miniature Toggle Switches

RS Stock No.: 2099344, 2099346, 2099343, 2099345



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Similar Products

Stock No.	Brand	Switch Function	Terminal Type	Terminal Plating	Actuator Type	Bushing Type
2099344	RS PRO	SP ON-NONE-ON	PC thru-hole	GOLD	12.70 High	6.10 high
2099346	RS PRO	SP ON-OFF-ON	PC thru-hole	GOLD	12.70 High	6.10 high
2099345	RS PRO	SP ON-NONE-ON	Right angle, PC thru-hole	GOLD	12.70 High	6.10 high
2099343	RS PRO	DP ON-NONE-ON	Right angle, PC thru-hole	GOLD	12.70 High	6.10 high

SWITCH FUNCTION

	Ser Sen		SWITCH FUNCTION		CONNECTED TERMINALS / SCHEMATIC			
NO.	MODEL NO.	MODEL	POS.1	DS.1 POS.2	POS.3	POS.1	POS.2	POS.3
POLES		NO.	À					
SP	Q11A11	1851	ON	NONE	ON		N/A 2-3	2-1
	Q11A12	1AS2	ON	NONE	(010)	2.2		
	Q11A13	1AS3	ON	OFF	ON			
	Q11A14	1AS4	(ON)	OFF	(ON)			40
	Q11A15	1ASS	ON	OFF	(CIN)			

DP	Q11A21	1AD1	ON	NONE	ON		N/A	
	Q11A22	1AD2	ON	NONE	(ON)	2-3,5-6		2-1,5-4 £2,000m £.
	Q11A23	1AD3	ON	OFF	ON	*7/GDMM: 1*	OPEN	
	Q11A24	1AD4	(ON)	OFF	(ON)	1. 72 4. 74		
	Q11A25	1AD5	ON	OFF	(ON)			
	Q11A26	1AD6	ON	ON	ON	2-3,5-6	2-3,5-4	
	Q11A27	1AD7	(ON)	ON	(ON)			2-1,5-4
	Q11A28	1AD8	ON	ON	(ON)			
3P	Q11A31	1A31	ON:	NONE	ON		N/A 2	-
	Q11A32	1A32	ON	NONE	(ON)	2-3,5-6,8-9		2-1,5-4,8-7
	Q11A33	1A33	ON	OFF	ON	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		f. fort.
	Q11A34	1A34	(ON)	OFF	(ON)	14 p3 14 p3 14 p1	Party Party OPEN	nd +2 nd +0 nd +0
	Q11A35	1A35	ON	OFF	(ON)			

^{()=} MOMENTARY

Product Description

1A series toggle switches comply with IP67 standards, and contact rating up to 5A. We offer a variety of switching functions, SPDT, DPDT, 3PDT and more.

We use water-proof sealing design to prevent dust from getting inside during soldering. The operating temperature range between -40 $^{\circ}$ C and 85 $^{\circ}$ C. Both bushing and insulator are complied with nylon UL94V-0 standard.

APPLICATIONS:

- telecommunications and networking equipment (wireless network cards, handheld devices, reset switches)
- instrumentation (shut-off switches, controllers)
- industrial controls (grips, joysticks, power supplies)
- · test and measurement equipment
- elevator controls
- food processing equipment
- boat and marine control panels
- medical equipment (wheelchair motor switch)
- · off-highway and construction equipment
- security systems and metal detectors

A Please check the availability in advance before order

Specifications

SPECIFICATIONS

CONTACT RATING: Dependent upon contact material MECHANICAL LIFE: 30,000 make-and-break cycles. CONTACT RESISTANCE: $10 \text{ m}\Omega$ max. initial @ 2-4VDC 100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: 1,000 M Ω min.

DIELECTRIC STRENGTH: 1,000 Vrms min.@sea level.

OPERATING TEMPERATURE: -40°C to 85°C.

MATERIALS

CASE & BUSHING: Glass filled nylon 6/6,flame retardant.heat

stabilized (UL94v-0).

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

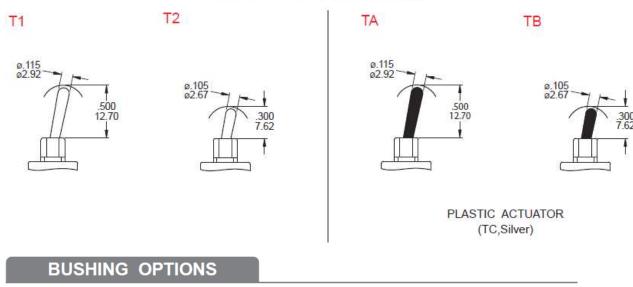
SWITCH SUPPORT: Brass or steel, tin plated.

SWITCH SUPPORT RETAINER: Stainless steel.

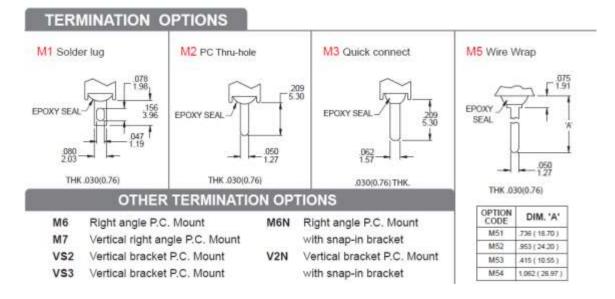
CONTACT / TERMINALS: Copper alloy, with Silver or gold plated.

Actuator Options

Actuator shown with standard B4 Bushing, Subtract .085 (2.15) for B1 bushing.







CONTACT MATERIAL OPTIONS

	CONTACT PLATING	TERMINAL PLATING	RATINGS
Q	Silver	Gold flash over silver	5 Amps with resistant load @ 120VAC or 28VDC
С	Gold over Silver	Gold over silver	2 Amps with resistant load @ 250VAC
R	Gold	Gold	0.4 Volt - Amps (VA) max. @ 20V max. (AC or DC)

SOLDERING PROCESSES

MANUAL SOLDERING: Use soldering iron of 30 watts, controlled at 350°C

approximately 5 seconds while applying solder.

WAVE SOLDERING: Recommended Soldering Temperature: 270 ± 5°C

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

Reliability Performance

Resistance Humidity The Salt Testing	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made: Temperature: 40±2°C. Relative Humidity: 90~95%. Time: 96 hours. Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made: Temperature: 35±2°C. The ratio of salt-water: 5%. The spray amount of salt- water: 1~2 ml/h.			
Test of IP 67	□Time: 48 hours. Protected against the effects of temporary immersion in water.			
Wave Soldering	(1m below the surface of the water for duration of 30 min). ■ Wave Soldering: > Soldering Temperature:260±5°C. > Duration of Solder Immersion: 5±1 seconds. > Frequency of Soldering Process Temperature Profile (°C) 250 200 150 100 Room Temperature 2 times max. PCB is 1.6mm in thickness.			
Manual Soldering	 Manual Soldering: Soldering Temperature: 350°C max. Duration of Solder Heated: 3 ±1 seconds. Precautions in Handling Care should be exercised so that flux from the upper part of the printed circuit board does not adhere to the switch. Except for washable type do not wash the switch. Please make sure that there is no flux rose over the surface of the PCB. 			

Additional Information

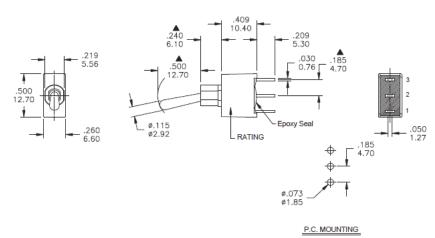
Custom Tariff Number 8536500000

Approvals

Hazardous Area Certification	RoHS 2011/65/EU & 2015/863
Standards Met	IP 67

Stock No. 1AS1T1B04M2RES

Drawing:

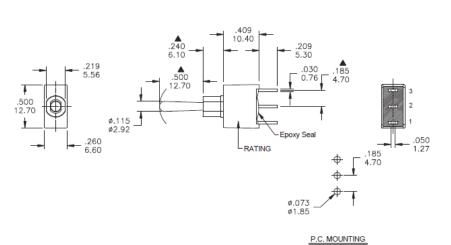


	POS.1	POS.2	POS.3	
Model No.	•	-	4	
1AS1	ON	NONE	ON	
Term. Comm.	2-3		2-1	
SCHEMATIC	2 Comm. 3	N/A	2 Comm. 3 C	

SWITCH FUNCTION

Stock No. 1AS3T1B04M2RES

Drawing:

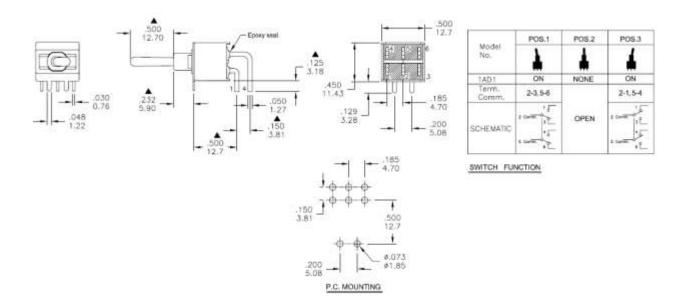


	POS.1	POS.2	POS.3
Model No.	#	-	4
1AS3	ON	OFF	ON
Term. Comm.	2-3		2-1
SCHEMATIC	2 Comm. 3	OPEN	2 Comm. 3

SWITCH FUNCTION

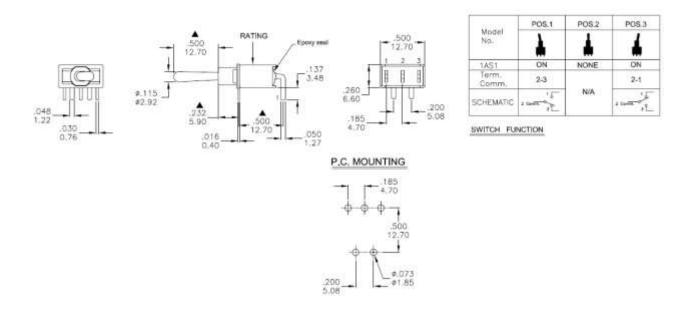
Stock No. 1AD1T1B04M6RES

Drawing:



Stock No. 1AS1T1B04M6RES

Drawing:



Accessories / Illustrations