

## FEATURE

1. Sealed construction - internal actuator o-ring and epoxy terminal seal standard
2. Carry the IP67 approvals
3. The ESD protection available - Anti-static plastic actuator -9000 V DC static resistance between toggle and terminal.

## SPECIFICATIONS

CONTACT RATING:R- 0.4 VA max @ 20 V AC or DC  
ELECTRICAL LIFE:30,000 make-and-break cycles at full load  
CONTACT RESISTANCE: 20 mΩ max. initial @2-4 VDC,100 mA  
INSULATION RESISTANCE: 1,000 MΩ min.  
DIELECTRIC STRENGTH: 1,500 V RMS @ sea level.

### ESD Resistant Option :

P2 insulating actuator only:9,000 VDC min. @ sea level,actuator to terminals.

DEGREE OF PROTECTION : IP67

OPERATING TEMPERATURE: -30°C to +85°C

## MATERIALS

CASE and BUSHING - glass filled nylon 6/6,flame retardant heat stabilized (UL94V-0)

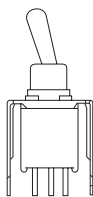
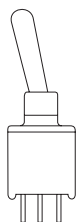
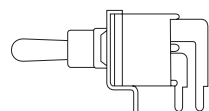
Actuator - Copper alloy , chrome plated,internal o-ring seal standard with all actuators

P2 / the anti-static actuator: Nylon 4/6,black standard(UL 94V-0)

CONTACT AND TERMINAL - Copper alloy , silver plated

SWITCH SUPPORT - Copper alloy , tin-plated

TERMINAL SEAL - Epoxy



**IP 67 protection degree**

**How do you build the switches you need!!**

**The ES-4 / ES-5 , please see the (A) ;**

**The ES-6/ES-7/ES-8/ES-9, please see the (B)**

(A) **E S - 4 - P 2 C R - A 5 -**

Switch Function	Actuator	Termination	Contact Material	Vertical support Bracket	RoHS code
ES-4 SP on-none-on	T1 Std. 10.16	C (std) P.C	Q silver plated	(none)	H = RoHS Compliant
ES-4B SP on-none-(on)	T2 Std. 6.10		R gold plated	A5 straight type	
ES-4A SP on-off-on	T3 8.13		G gold over silver	A5S (std.) snap-in type	
ES-4H SP (on)-off-(on)	T4 13.97		K gold / tin		
ES-4I SP on-off-(on)	T5 3.5				
ES-5 DP on-none-on	<b>ESD protection actuator</b>				
ES-5B DP on-none-(on)	P1 (black) 10.16				
ES-5A DP on-off-on	P11 (white) 10.16				
ES-5H DP (on)-off-(on)	P2 (std - black) 6.10				
ES-5I DP on-off-(on)	P21 (white) 6.10				

(B) **E S - 6 - T 2 R - S -**

Horizon Right Angle	Vertical Right Angle	Switches Function	Actuator	Contact Material	Support Bracket type
ES-6	ES-8	SP on-none-on	T1 10.16	Q silver plated	S (std.) Snap-in type
ES-6B	ES-8B	SP on-none-(on)	T2 Std. 6.10	R gold plated	(none) straight type
ES-6A	ES-8A	SP on-off-on	T3 8.13	G gold over silver	
ES-6H	ES-8H	SP (on)-off-(on)	T4 13.97	K gold / tin	
ES-6I	ES-8I	SP on-off-(on)	T5 3.5		
ES-7	ES-9	DP on-none-on	<b>ESD protection actuator</b>		
ES-7B	ES-9B	DP on-none-(on)	P1 (black) 10.16		
ES-7A	ES-9A	DP on-off-on	P11 (white) 10.16		
ES-7H	ES-9H	DP (on)-off-(on)	P2 (std - black) 6.10		
ES-7I	ES-9I	DP on-off-(on)	P21 (white) 6.10		
			<b>RoHS code</b>		
			H = RoHS Compliant		

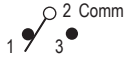
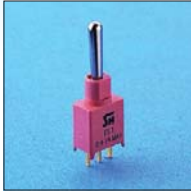


# ES40-T

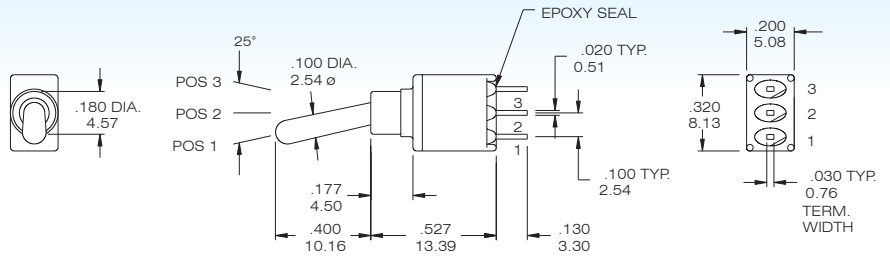
## Sealed Sub-Miniature Toggle Switches



### SPDT

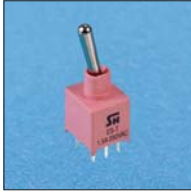


Model No.	Switching position		
ES-4	ON	none	ON
ES-4A	ON	OFF	ON
ES-4B	ON	None	(ON)
ES-4H	(ON)	OFF	(ON)
ES-4I	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

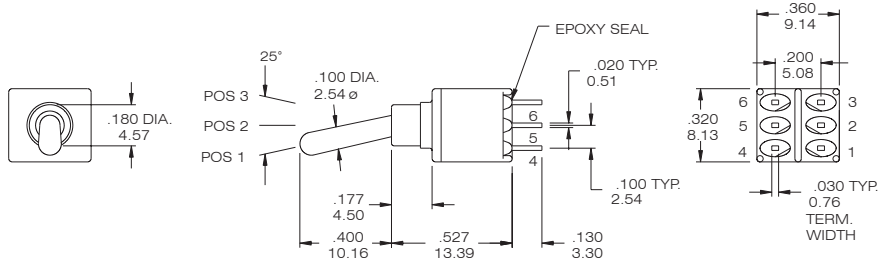


ES-4 - T1CR

### DPDT

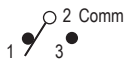
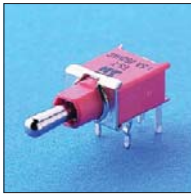


Model No.	Switching position		
ES-5	ON	none	ON
ES-5A	ON	OFF	ON
ES-5B	ON	None	(ON)
ES-5H	(ON)	OFF	(ON)
ES-5I	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4

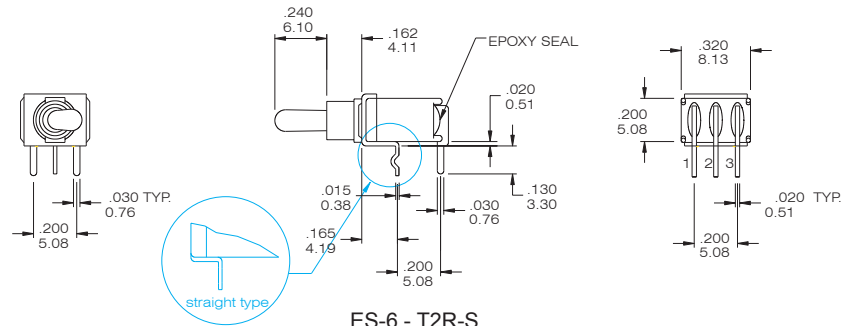


ES-5 - T1CR

### SPDT

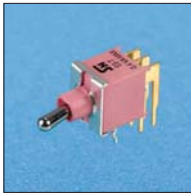


Model No.	Switching position		
ES-6	ON	none	ON
ES-6A	ON	OFF	ON
ES-6B	ON	None	(ON)
ES-6H	(ON)	OFF	(ON)
ES-6I	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

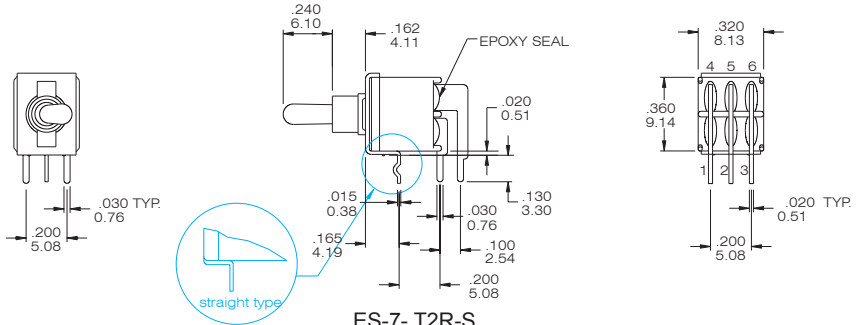


ES-6 - T2R-S

### DPDT

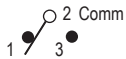


Model No.	Switching position		
ES-7	ON	none	ON
ES-7A	ON	OFF	ON
ES-7B	ON	None	(ON)
ES-7H	(ON)	OFF	(ON)
ES-7I	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4

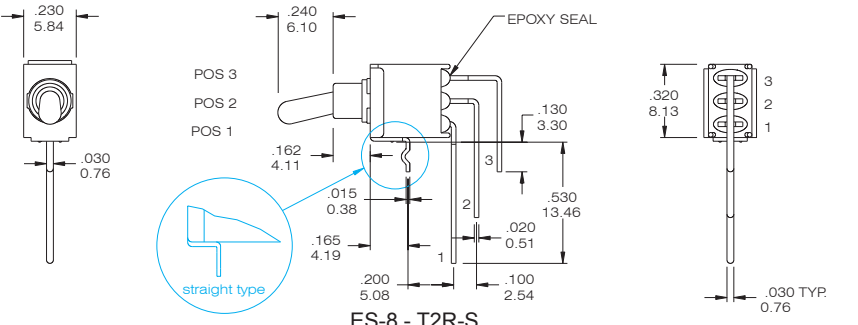


ES-7 - T2R-S

### SPDT

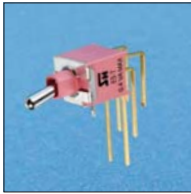


Model No.	Switching position		
ES-8	ON	none	ON
ES-8A	ON	OFF	ON
ES-8B	ON	None	(ON)
ES-8H	(ON)	OFF	(ON)
ES-8I	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

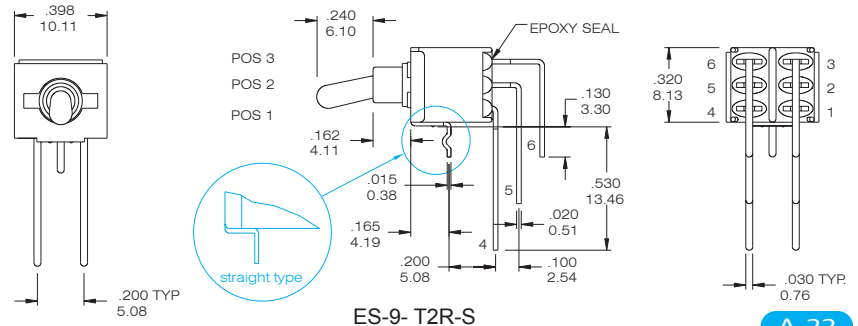


ES-8 - T2R-S

### DPDT



Model No.	Switching position		
ES-9	ON	none	ON
ES-9A	ON	OFF	ON
ES-9B	ON	None	(ON)
ES-9H	(ON)	OFF	(ON)
ES-9I	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4



ES-9 - T2R-S

