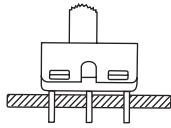
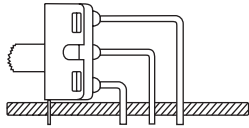


T80-S Slide Switches



SPECIFICATIONS

CONTACT RATING: 5A @120 VAC or 28 VDC
3A @250 VAC

ELECTRICAL LIFE: 30,000 make-and-break cycles at full load

CONTACT RESISTANCE: 10 mΩ max. initial @2-4 VDC, 100 mA

INSULATION RESISTANCE: 1,000 MΩ min.

DIELECTRIC STRENGTH: 1,500 V RMS @ sea level.

OPERATING TEMPERATURE: -30°C to +85°C

MATERIALS

CASE - diallyl phthalate (DAP)

SLIDE HANDLE - Nylon

HOUSING - Stainless Steel

CONTACT AND TERMINAL - Copper alloy, silver plated

How do you build the switches you need!!

The straight type , please see the (A) ;

The right angle P.C terminals, please see the (B)

(A) T S - 1 3 - A 1 - 2 - C Q - E - S 2 0 -

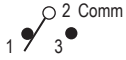
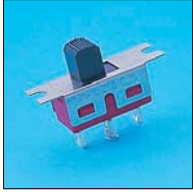
Switches Function		Actuator		Actuator color	Termination	Contact Material	Vertical support Bracket
TS-13	SPDT on-none-on	A1	5.08	1 white	B solder lug	Q silver plated	(none) S20 8.89 (SPDT) S20 10.16 (DPDT)
TS-13A	SPDT on-none-mom	A2	7.35	2 black (std.)	C P.C	R gold plated	
TS-14	SPDT on-off-on	A3	9.40	9 gray	D Quick connect	G gold over silver	
TS-11	DPDT on-none-on	A4	3.60		D1 wire wrap 19.05	Epoxy seal (none) none seal E epoxy seal	RoHS code □ = none H = RoHS Compliant
TS-12	DPDT on-off-on	A5	5.08		D3 wire wrap 10.8		
		A6	12.32				
		A7	4.20				

(B) T S - 1 3 P - A 1 - 2 - Q - E -

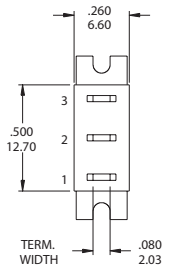
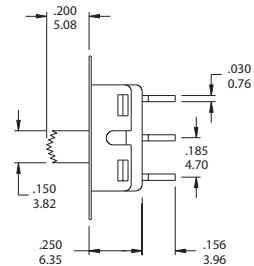
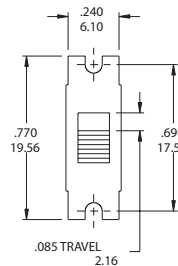
Horizon Right Angle	Vertical Right Angle	Switches Function	Actuator	Actuator color	Contact Material	RoHS code
TS-13P	TS-13L	SPDT on-none-on	A1 4.72	1 white	Q silver plated	□ = none H = RoHS Compliant
TS-13PA	TS-13LA	SPDT on-none-mom	A2 6.96	2 black	R gold plated	
TS-14P	TS-14L	SPDT on-off-on	A3 8.96	9 gray	G gold over silver	
TS-11P	TS-11L	DPDT on-none-on	A4 3.10		Epoxy seal (none) none seal E epoxy seal	
TS-12P	TS-12L	DPDT on-off-on	A6 11.92			

T80-S Slide Switches

SPDT



Model No.	Switching position		
TS-13	ON	NONE	ON
TS-13A	(ON)	NONE	ON
TS-14	ON	OFF	ON
Term. Comm.	2-3	open	2-1

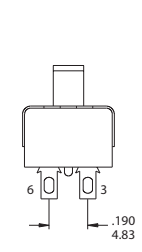
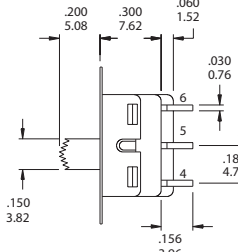
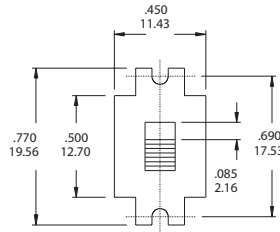


TS-13-A1-2-BQ

DPDT



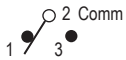
Model No.	Switching position		
TS-11	ON	NONE	ON
TS-12	ON	OFF	ON
Term. Comm.	2-3	open	2-1



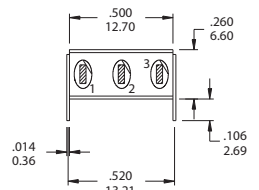
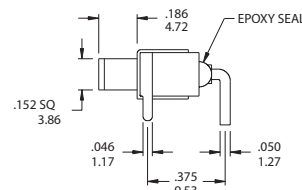
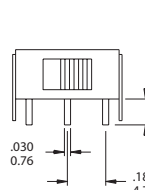
TS-11-A1-2-BQ

HORISON RIGHT ANGLE

SPDT



Model No.	Switching position		
TS-13P	ON	NONE	ON
TS-13PA	(ON)	NONE	ON
TS-14P	ON	OFF	ON
Term. Comm.	2-3	open	2-1

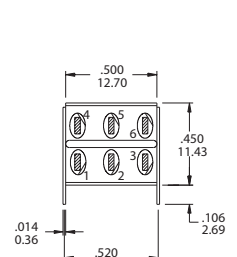
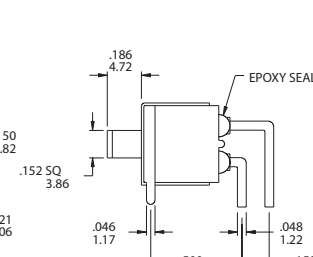
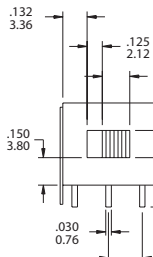


TS-13P-A1-2-Q(-E)

DPDT



Model No.	Switching position		
TS-11P	ON	NONE	ON
TS-12P	ON	OFF	ON
Term. Comm.	2-3	open	2-1



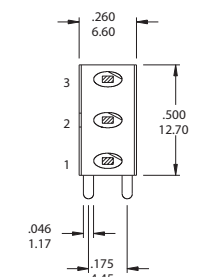
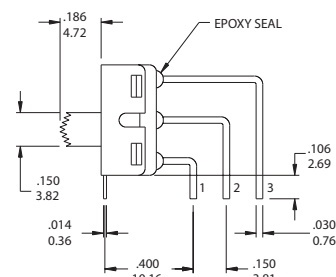
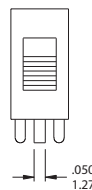
TS-11P-A1-2-Q(-E)

VERTICAL RIGHT ANGLE

SPDT



Model No.	Switching position		
TS-13L	ON	NONE	ON
TS-13LA	(ON)	NONE	ON
TS-14L	ON	OFF	ON
Term. Comm.	2-3	open	2-1

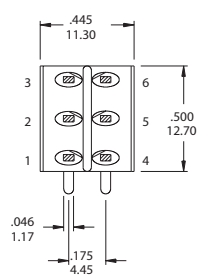
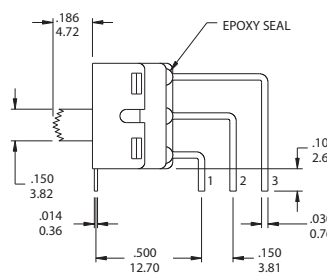
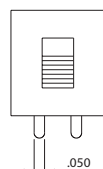


TS-13L-A1-2-Q(-E)

DPDT



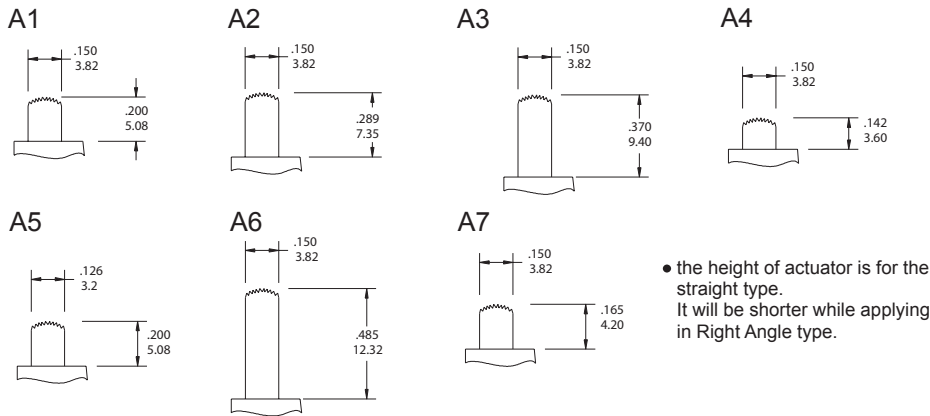
Model No.	Switching position		
TS-11L	ON	NONE	ON
TS-12L	ON	OFF	ON
Term. Comm.	2-3	open	2-1



TS-11L-A1-2-Q(-E)

Actuator Option

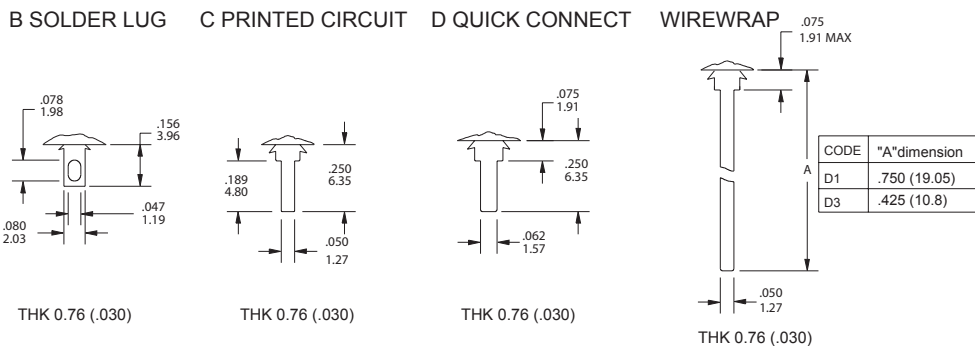
Actuator Color



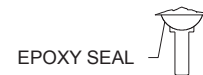
COLOR NO.	COLOR
1	white
2	black
9	gray

TERMINAL OPTION

Terminal Seal Option

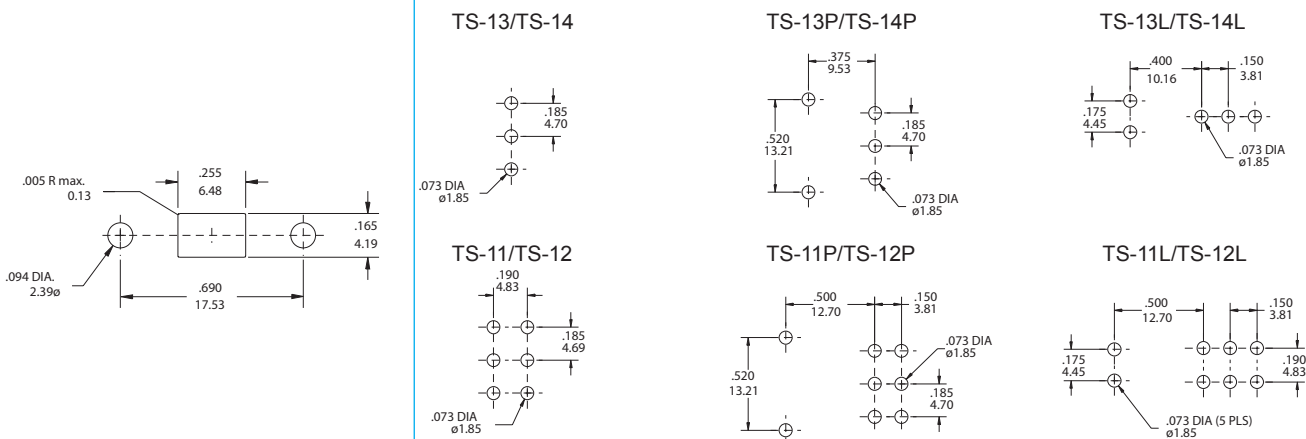


E TERMINAL SEAL



PANEL MOUNTING DIMENSION

THE P.C.B MOUNTING



CONTACT MATERIAL OPTIONS

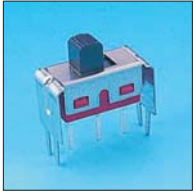
CODE	CONTACT MATERIAL	TERMINAL MATERIAL	RATING
Q	Silver plated	Silver plated	5 A @ 120V AC or 28 V DC; 3 A @ 250 VAC
R	Gold plated over nickel plated	Gold plated over nickel plated	0.4VA MAX @ 20 V AC or DC MAX
G	Gold plated over silver plated	Gold plated over silver plated	0.4 VA MAX @ 20 V AC or DC MAX or 5 A @ 120V AC or 28 V DC; 3 A @ 250 VAC
K	Gold plated over nickel plated	Tin over nickel plated	0.4VA MAX @ 20 V AC or DC MAX

* THE K option is only for some special item. Please inquire first when you need the "K" option

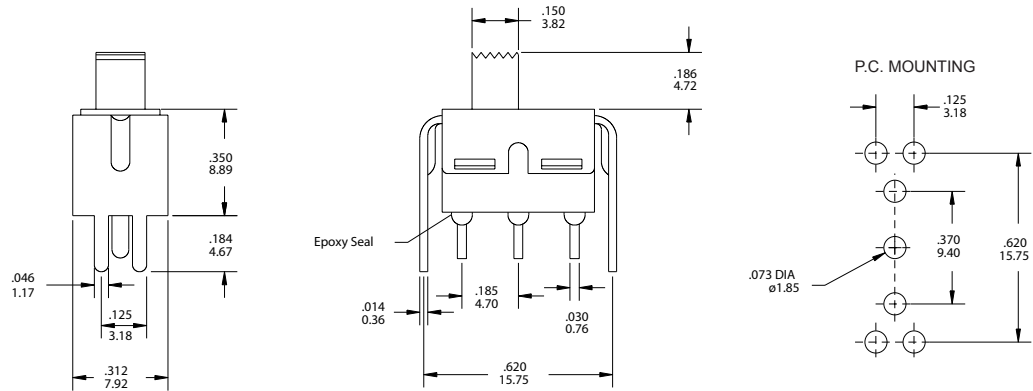
VERTICAL SUPPORT BRACKET OPTION

(only apply the straight type terminal - Please modify the terminal option is "c" code)

S20



SPDT

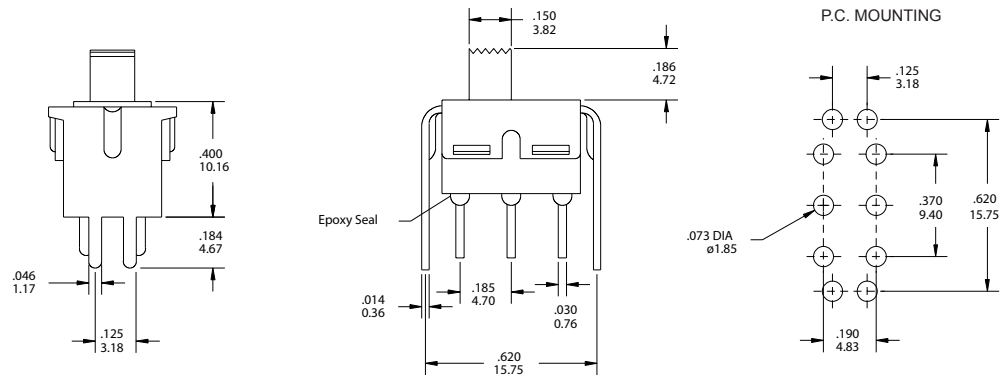


TS-13-A1-2-CQ-S20

S20



DPDT



TS-11-A1-2-CQ-S20

INDEX

TOGGLE

ROCKER

SLIDE

PUSH BUTTON

DIP

TACT