

SPECIFICATIONS

CONTACT RATING:Q: 1A @120 VAC or 28 VDC
ELECTRICAL LIFE: 50,000 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.
OPERATING TEMPERATURE: -30°C to +85°C

MATERIALS

CASE - diallyl phthalate (DAP)
PLUNGER - thermoplastic polyester
BUSHING - Copper alloy , nickel plated
HOUSING - Stainless Steel
CONTACT AND TERMINAL - Copper alloy , silver plated
SWITCH SUPPORT - Copper alloy , tin plated

How do you build the switches you need!!

The TS-21 / TS-22 , please see the (A) ;

The TS-21A/TS-21B/TS-22A/TS-22B, please see the (B)

(A) **T S - 2 1 - C V - 2 - S B Q - E - A 5 -**

Switches Function		Cap or Actuator		Cap color		Plunger		Termination		Vertical support Bracket	
TS-21	SPST off-mom.	(none)	none	1	white	(none)	std.	B	solder lug	(none)	(std)straight type
TS-22	SPDT on-mom.	CV	5.08	2	black	FP	flush type	C	P.C	A5	(std)straight type
		CV1	7.62	3	red			D	wire wrap	A5S	snap-in type
		F22A	With frame	4	orange						
				5	yellow	Bushing				RoHS code	
				6	green	S	10-48 thd.(FLAT) 5.59			H = RoHS Compliant	
				7	Blue	U	none thd.(FLAT) 5.59	Contact Material			
				8	Gray	T	none thd.(ROUND) 5.59	Q	silver plated		
				9	Gray	V	1/4-40 thd. 7.87	R	gold plated		
						V1	none thd. 7.87	G	gold over silver		
						S9	flush	K	gold / tin		
								Epoxy seal			
								(none)	none seal		
								E	epoxy seal		

(B) **T S - 2 1 A - C V 1 - 2 - U Q - E -**

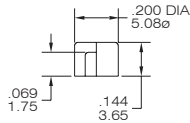
Horizon Right Angle	Vertical Right Angle	Switches Function	Cap		Plunger		Epoxy seal	
TS-21A	TS-21B	SPST off-mom.	(none)	none	(none)	std.	(none)	none seal
TS-22A	TS-22B	SPDT on-mom.	CV	5.08	FP	flush type	E	epoxy seal
			CV1	7.62				
			Cap color		Bushing		Support Bracket	
			1	white	S	10-48 thd.(FLAT) 5.59	(none)	Std. straight type
			2	black	U	none thd.(FLAT) 5.59	S	snap-in type
			3	red	T	none thd.(ROUND) 5.59		
			4	orange	S9	flush		
			5	yellow	Contact Material		RoHS code	
			6	green	Q	silver plated	H = RoHS Compliant	
			7	Blue	R	gold plated		
			8	Gray	G	gold over silver		
			9	Gray	K	gold / tin		



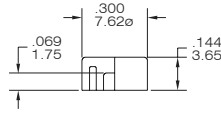
Cap and Actuator Option

Cap color Option

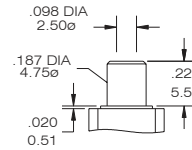
CV



CV1



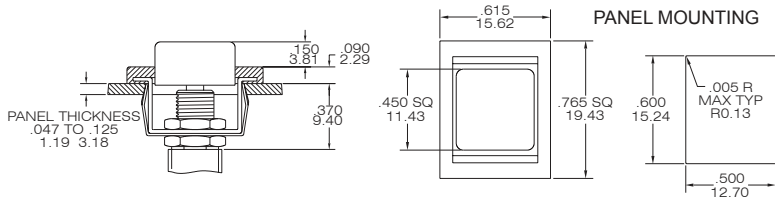
Plunger:
FP flush type



CAP & ACTUATOR OPTIONS

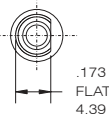
1	White
2	Black(Std.)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
9	Gray

F22A

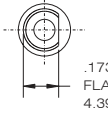


Bushing Option

S



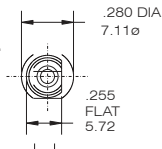
U



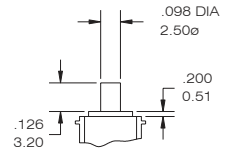
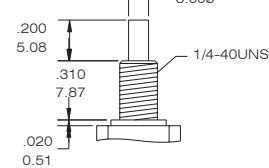
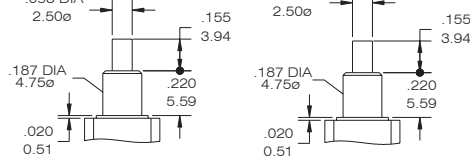
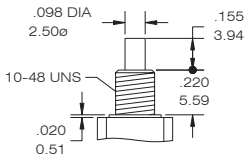
T



V : Thd.
V1 : Non Thd.



S9



TERMINAL OPTION (ONLY FOR THE TS-21 / TS-22)

Terminal Seal Option

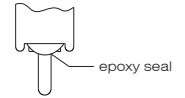
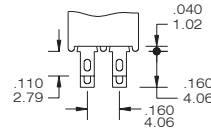
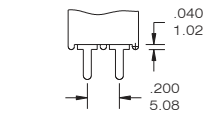
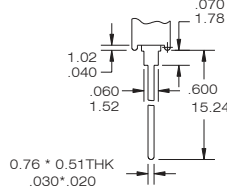
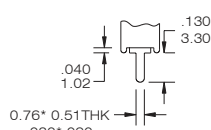
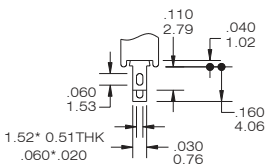
B Solder Lug(STD)

C PRINTED CIRCUIT

D Wire Wrap

DPDT

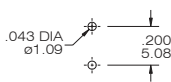
-E Terminal Seald



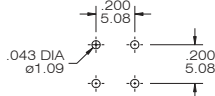
P.C.B MOUNTING DIMENSION

PANEL MOUNTING DIMENSION

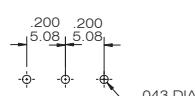
TS-21 (PC terminal)



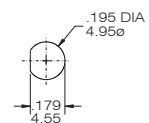
TS-21A



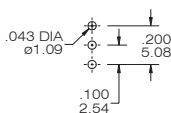
TS-21B



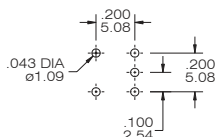
10-48 BUSHING



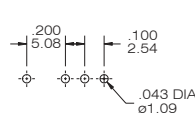
TS-22 (PC terminal)



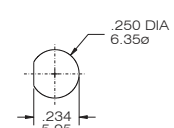
TS-22A



TS-22B



1/4 IN. BUSHING





CONTACT MATERIAL OPTIONS

CODE	CONTACT MATERIAL	TERMINAL MATERIAL	RATING
Q	Silver plated	Silver plated	1A @ 120V AC or 28 V DC
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 1A @ 120V AC or 28 V DC
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

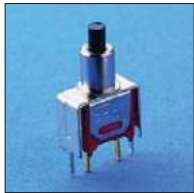
VERTICAL SUPPORT BRACKET OPTION

Only for the TS21/TS22 . If you need the vertical support bracket , Choose the terminal option in "C" code

INDEX

TOGGLE

A5/ A5S



SPST

ROCKER

SLIDE

A5/ A5S

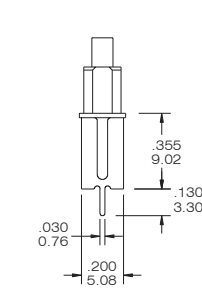


SPDT

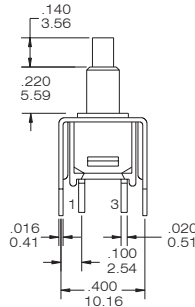
PUSH BUTTON

DIP

TACT

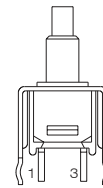
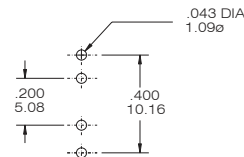


TS-21-UCQ-A5

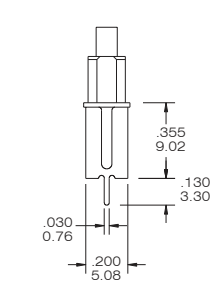


A5 (STD.)

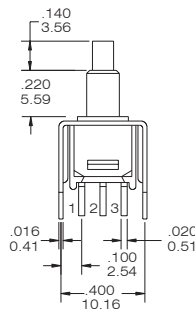
P.C. MOUNTING



A5S (Snap-in)

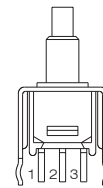
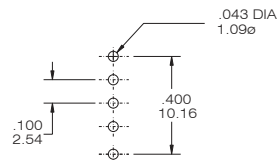


TS-22-UCQ-A5



A5 (STD.)

P.C. MOUNTING



A5S (Snap-in)