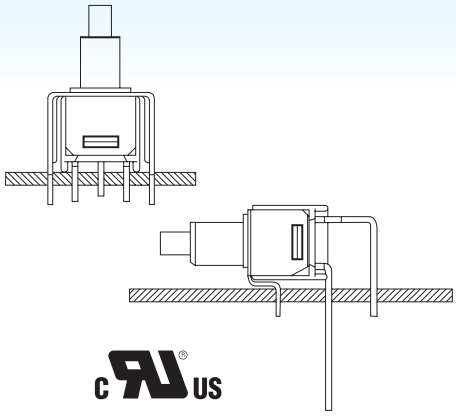


SPECIFICATIONS

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	
TS-21	SPST off-mom.
TS-22	SPDT on-mom.

Cap or Actuator	
(none)	none
CV	5.08
CV1	7.62
F22A	With frame

Cap color	
1	white
2	black
3	red
4	orange
5	yellow
6	green
7	Blue
9	Gray

Plunger	
(none)	std.
FP	flush type

Bushing		
S	10-48 thd.(FLAT)	5.59
U	none thd.(FLAT)	5.59
T	none thd.(ROUND)	5.59
V	1/4-40 thd.	7.87
V1	none thd.	7.87
S9	flush	

Termination	
B	solder lug
C	P.C
D	wire wrap

Contact Material	
Q	silver plated
R	gold plated
G	gold over silver
K	gold / tin

Epoxy seal	
(none)	none seal
E	epoxy seal

Vertical support Bracket	
(none)	
A5	(std)straight type
A5S	snap-in type

RoHS code
H = RoHS Compliant

(B) T S – 2 1 A – C V 1 – 2 – □ □ U □ Q – E – □ – □

Horizon Right Angle	Vertical Right Angle	Switches Function
TS-21A	TS-21B	SPST off-mom.
TS-22A	TS-22B	SPDT on-mom.

Cap	
(none)	none
CV	5.08
CV1	7.62

Cap color	
1	white
2	black
3	red
4	orange
5	yellow
6	green
7	Blue
9	Gray

Plunger	
(none)	std.
FP	flush type

Bushing		
S	10-48 thd.(FLAT)	5.59
U	none thd.(FLAT)	5.59
T	none thd.(ROUND)	5.59
S9	flush	

Contact Material	
Q	silver plated
R	gold plated
G	gold over silver
K	gold / tin

Epoxy seal	
(none)	none seal
E	epoxy seal

Support Bracket	
(none)	Std. straight type
S	snap-in type

RoHS code
H = RoHS Compliant

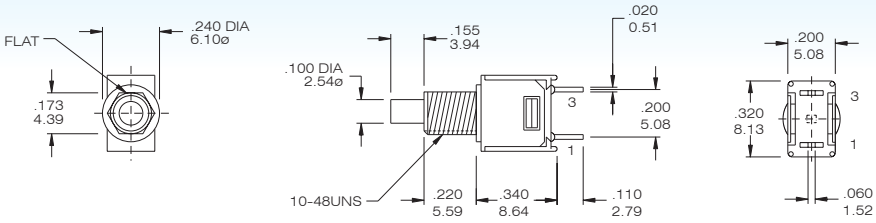
The dimensions in the catalogue and website are for reference only, not suitable for formal acknowledge.

SPST



Model No.	Switching position	
TS-21	Off	Mom
Term. Comm.	open	1-3

SCHEMATIC 



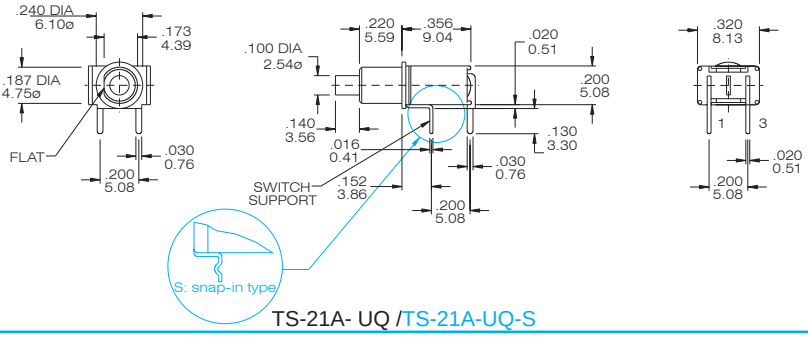
TS-21- SBQ

SPST



Model No.	Switching position	
TS-21A	Off	Mom
Term. Comm.	open	1-3

SCHEMATIC 



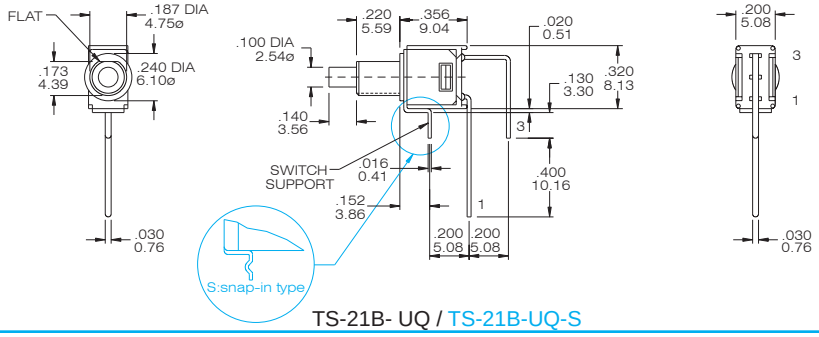
TS-21A- UQ /TS-21A-UQ-S

SPST



Model No.	Switching position	
TS-21B	Off	Mom
Term. Comm.	open	1-3

SCHEMATIC 



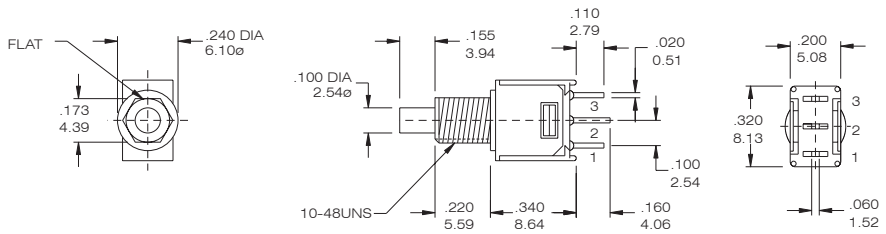
TS-21B- UQ / TS-21B-UQ-S

SPDT



Model No.	Switching position	
TS-22	On	Mom
Term. Comm.	2-1	2-3

SCHEMATIC 



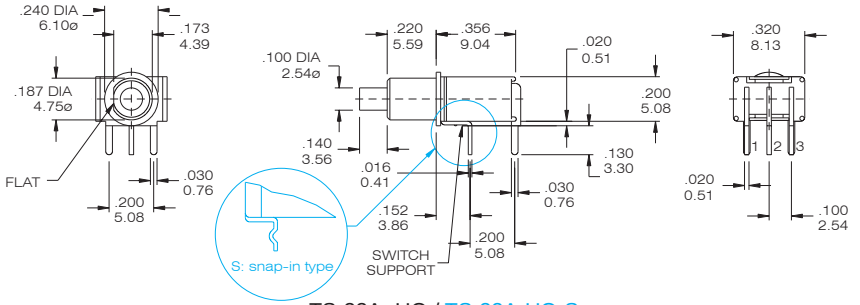
TS-22- SBQ

SPDT



Model No.	Switching position	
TS-22A	On	Mom
Term. Comm.	2-1	2-3

SCHEMATIC 



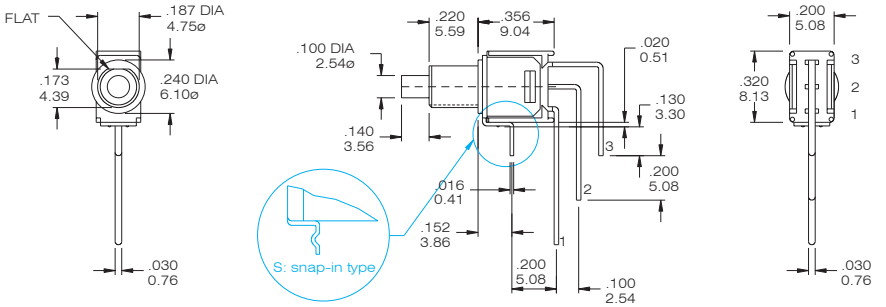
TS-22A- UQ / TS-22A-UQ-S

SPDT



Model No.	Switching position	
TS-22B	On	Mom
Term. Comm.	2-1	2-3

SCHEMATIC 

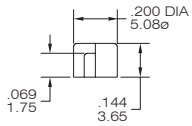


TS-22B- UQ / TS-22B-UQ-S

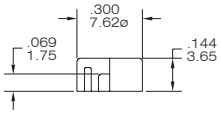
The dimensions in the catalogue and website are for reference only, not suitable for formal acknowledge.

Cap and Actuator Option

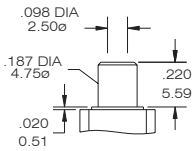
CV



CV1

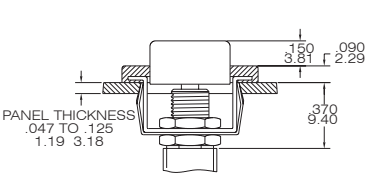


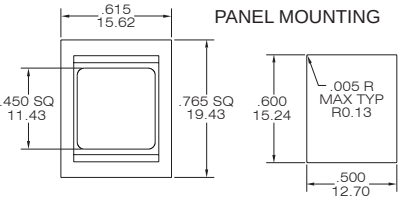
Plunger:
FP flush type



F22A





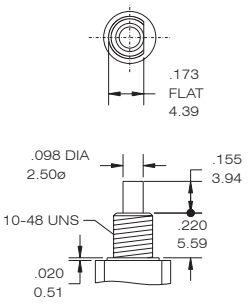


Cap color Option

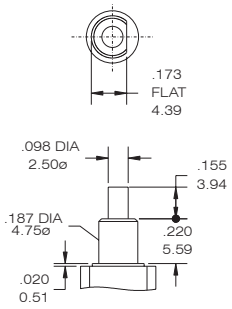
CAP & ACTUATOR OPTIONS	
1	White
2	Black(Std.)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
9	Gray

Bushing Option

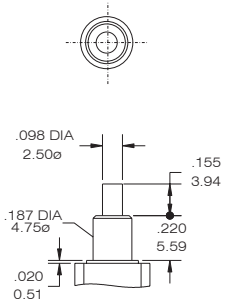
S



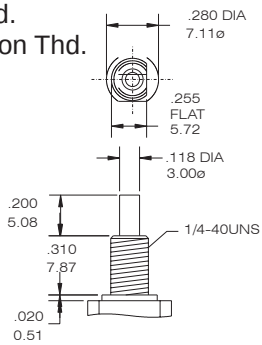
U



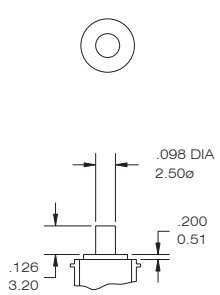
T



V : Thd.
V1 : Non Thd.

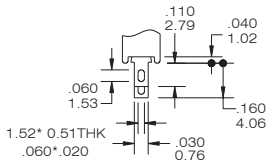


S9

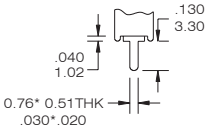


TERMINAL OPTION (ONLY FOR THE TS-21 / TS-22)

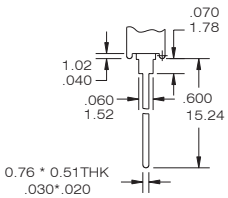
B Solder Lug(STD)



C PRINTED CIRCUIT



D Wire Wrap



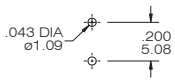
Terminal Seal Option

-E Terminal Seald

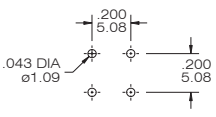


P.C.B MOUNTING DIMENSION

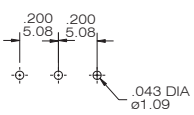
TS-21 (PC terminal)



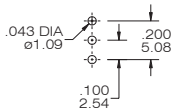
TS-21A



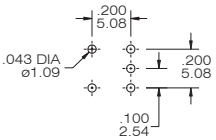
TS-21B



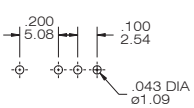
TS-22 (PC terminal)



TS-22A

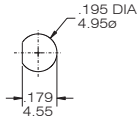


TS-22B

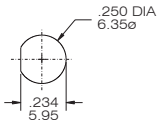


PANEL MOUNTING DIMENSION

10-48 BUSHING



1/4 IN. BUSHING



The dimensions in the catalogue and website are for reference only, not suitable for formal acknowledge.

CONTACT MATERIAL OPTIONS

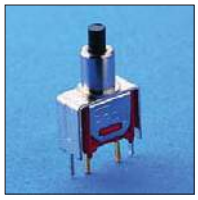
CODE	CONTACT MATERIAL	TERMINAL MATERIAL	RATING
Q	Silver plated	Silver plated	1A @ 120V AC or 28 V DC
R	Gold plated over nickel plated	Gold plated over nickel plated	0.4VA MAX @ 20 V AC or DC MAX
G	Gold plated over silver plated	Gold plated over silver plated	0.4 VA MAX @ 20 V AC or DC MAX or 1A @ 120V 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

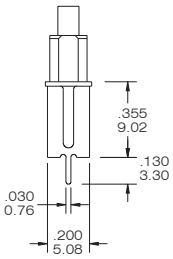
VERTICAL SUPPORT BRACKET OPTION

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

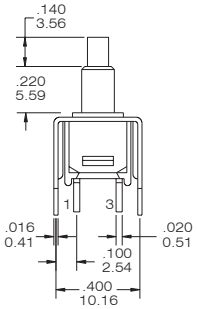
A5/ A5S



SPST

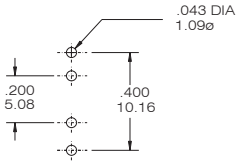


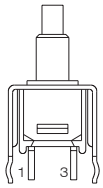
TS-21-UCQ-A5



A5 (STD.)

P.C. MOUNTING



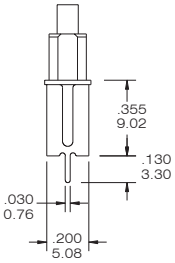


A5S (Snap-in)

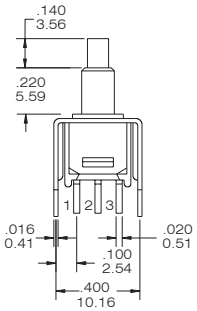
A5/ A5S



SPDT

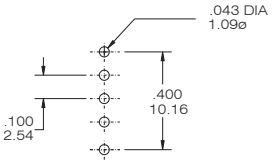


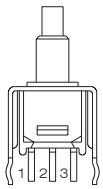
TS-22-UCQ-A5



A5 (STD.)

P.C. MOUNTING





A5S (Snap-in)

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