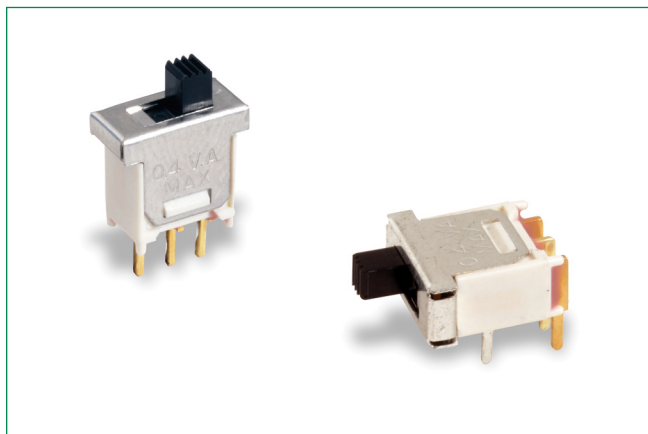


TS Series

Tiny Slide Switches



Agency Approvals

Agency	Agency File Number
US	E42363

Specifications

Contact Rating	B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material (TS01 model): 3 amps @ 120 V AC or 28 V DC; (TS02, TS03 models): 1 amp @ 120 V AC or 28 V DC. See page 3 for additional ratings.
Electrical Life	TS01 models: 60,000 make-and-break cycles at full load. TS02, TS03 models: 30,000 cycles.
Contact Resistance	Below 20 m Ω typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.
Insulation Resistance	10 ⁹ Ω min.
Dielectric Strength	1,000 Vrms min. @ sea level.
Operating Temperature	-30°C to 85°C
Solderability	Per MIL-STD-202G method 208H

Description

The TS series tiny slide switches feature reliable contact design, which ensures a long electrical life. With ratings up to 3 A, the TS series are epoxy terminal-seal compatible with bottom wash cleaning capabilities. TS switches are found in test & measurement equipment, computers & peripherals and telecommunications & networking equipment.

Features & Benefits

- Reliable contact design ensures long electrical life
- Ratings up to 3 AMPS
- Epoxy terminal-seal compatible with bottom wash cleaning
- RoHS compliant

Applications

- Test & measurement equipment
- Computers & peripherals
- Telecommunications & networking equipment

Materials

Case	Glass filled nylon 4/6, flame retardant, heat stabilized.
Actuator	Nylon, black standard.
Housing	Stainless steel or stainless steel, nickel plated.
End Contacts	B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Coin silver, silver plated. See page 3 for additional contact materials.
Center Contacts & All Terminals	B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page 3 for additional contact materials.
Terminal Seal	Epoxy. Refer to Soldering and Cleaning in Technical Data chapter.

Notes:

Any models supplied with Q, B, G, P, S or R contact material are RoHS compliant. Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Ordering Number

To order, simply select desired option from each category and place in the appropriate box. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all "bottom-wash" PCB cleaning methods.

TSxx - x - x - E	
Switch Function	Seal
TS01: SPDT On-None-On	E: Epoxy
TS02: SPST Off-None-On	Contact Material
TS03: SPDT On-Off-On	B: Gold
Terminations	Q: Silver
A: Right angle, PC thru-hole (TS01 & TS03 models only)	G: Gold over silver
C: PC Thru-hole	P: Gold, matte-tin
W: Wire wrap	S: Silver, matte-tin
	R: Gold over silver, matte-tin

Switch Function

SPDT

C PC Thru-hole



Diagram illustrating the dimensions of a 1/2 inch diameter, 1/2 inch thick, 1/2 inch high part. The dimensions are shown in inches and millimeters:

- Top thickness: .070 (1.78)
- Inner diameter: .030 (0.76)
- Inner wall thickness: .060 (1.52)
- Outer diameter: .600 (15.24)
- Bottom thickness: .020 THK. (0.51)
- Material: Epoxy Seal

SPDT and SPST

PC Mounting



Notes: Not available with TS02 model.

TS Series

Tiny Slide Switches



Contact Material

Option Code	Contact Material	Terminal Plating	Ratings	
B	Gold ¹	Gold ¹	Low Level / Dry Circuit	0.4 VA max. @ 20 V AC or DC max.
P		Matte-Tin ⁶		
Q	Silver ^{4,5}	Silver ⁵	Power	TS01 models: 3 amps @ 120 V AC or 28 V DC. TS02, TS03 models: 1 amp @ 120 V AC or 28 V DC.
S				
G	Gold over Silver ^{2,3}	Gold ³	Low Level / Dry Level Circuit or Power	TS01 models: 0.4 VA max. @ 20 V AC or DC max. or 3 amps @ 120 V AC or 28 V DC. TS02, TS03 models: 0.4 VA max. @ 20 V AC or DC max. or 1 amp @ 120 V AC or 28 V DC.
R		Matte-Tin ⁶		

Notes: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

1. Contacts & Terminals: Copper alloy, with gold plate over nickel plate.

2. End Contacts: Coin silver, with gold plate over nickel plate.

3. Center Contacts & All Terminals: Copper alloy, with gold plate over nickel plate.

4. End Contacts: Coin silver, silver plated.

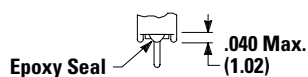
5. Center Contacts & All Terminals: Copper alloy, silver plated.

6. Terminals: Copper alloy, with matte tin alloy nickel plate.

Notes: All models C&K[®] US with all options when ordered with G, S or R contact material. B contact material standard with A and W terminations. Q contact material standard with C terminations. Any models supplied with Q, B, G, P, S or R contact material are RoHS compliant.

Seal

E Epoxy Seal



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