Distinctive Characteristics

Compact dimensions and low profile allow high density mounting and close stacking of PC boards.

Crisp actuation positively indicates circuit status.

Heat resistant resin allows vapor phase and infrared convection reflow soldering.

Award-winning STC mechanism with benefits unavailable in conventional mechanisms: smoother, positive detent actuation, increased contact stability, and unparalleled logic-level reliability. (Additional STC details in Terms and Acronyms in the Supplement section.)



Insert molded terminals lock out flux, solvents, and other contaminants.

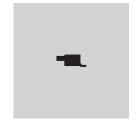
Metric terminal spacing for standard PC board grid (2.0mm x 2.0mm).

Gull-wing terminals provide mechanical stability during soldering and simplified solder joint inspection.

Packaged in tape-reel or partitioned tray. Tape-reel packaging meets EIA-481-D Standard.

Coplanarity: all considered surfaces must lie between two parallel planes that are a maximum distance apart of .0059" (0.15mm). (Additional coplanarity details in Terms and Acronyms in the Supplement section.)

Actual Size



Touch

Supplement | Accessories | Indicators

General Specifications

Electrical Capacity (Resistive Load)

0.4VA maximum @ 28V AC/DC maximum **Logic Level:**

(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Note: Find additional explanation of operating range in Supplement section.

Other Ratings

50 milliohms maximum **Contact Resistance:**

Insulation Resistance: 100 megohms minimum @ 500V DC **Dielectric Strength:** 500V AC minimum for 1 minute minimum

Mechanical Life: 10,000 operations minimum **Electrical Life:** 10,000 operations minimum

Contact Timing: SS312S ~ Shorting (make-before-break)

Total Travel: .079" (2.0mm)

Materials & Finishes

Actuator: Polyphenylene sulfide

Phosphor bronze with tin plating (UL94V-0) Housing:

Base: Polyphenylene sulfide (UL94V-0)

Movable Contactor: Phosphor bronze with gold plating over silver plating (code 4)

> Terminals: Phosphor bronze with gold plating

Environmental Data

Operating Temp Range: -25°C through +85°C (-13°F through +185°F)

Humidity: 90 ~ 95% humidity for 240 hours @ 40°C (104°F)

Vibration: 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning in

1 minute; 3 right angled directions for 2 hours

50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction) Shock:

Installation

Reflow Soldering Recommended. See Profile A in Supplement section. Soldering:

Manual Soldering: See Profile A in Supplement section.

Cleaning: These devices are not process sealed. Hand clean locally using alcohol based solution.

Standards & Certifications

Flammability Standards: UL 94V-0 rated housing & base

> The SS3 Series slides have not been tested for UL recognition or CSA certification. These switches are designed for use in a low-voltage, low-current, logic-level circuit. When used as intended in a logic-level circuit, the results do not produce hazardous energy.

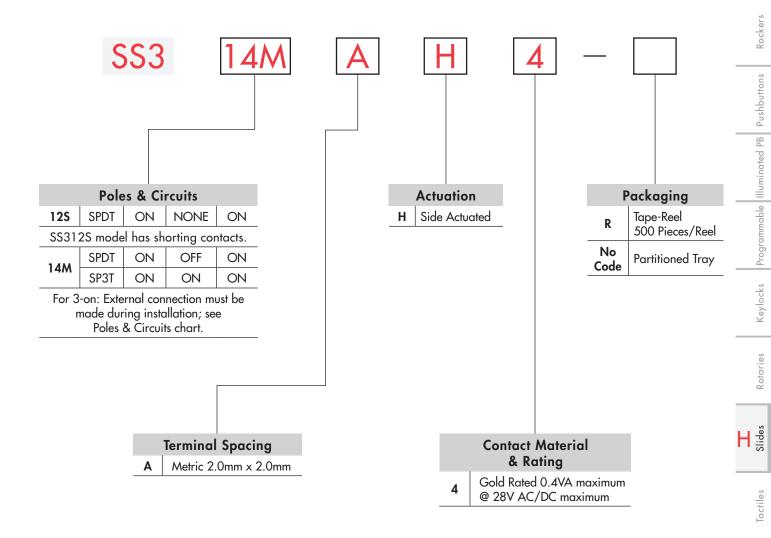


Toggles

Indicators

Supplement | Accessories

TYPICAL SWITCH ORDERING EXAMPLE



DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

SS314MAH4

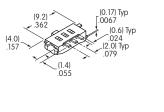
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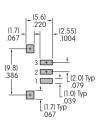
POLES & CIRCUITS										
Slide Position			Connected Terminals			Throw & Schematics				
Pole	Model	Right	Center	Left	Right	Center	Left	Note: Terminal numbers are not actually on switch.		
SP	SS312S	ON	NONE	ON	2-3	NONE	2-1	SPDT 1 2 (COM) 3		
	SS314M	ON	OFF	ON	3-5	4-2	3-1	SPDT 1 2 3 (COM) 4 5		
SP		ON	ON	ON	3-5	3-4	3-1	SP3T External connection must be made during installation to create ON-ON-ON circuit.		

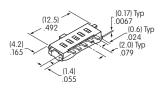
TERMINAL SPACING

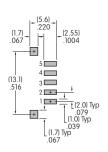
Metric 2.0mm x 2.0mm



SS312







SS314

ACTUATION

Side Actuated



CONTACT MATERIALS & RATING

Gold over Silver/Phosphor Bronze

Logic Level

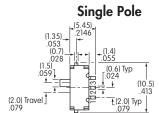
0.4VA maximum @ 28V AC/DC maximum

Complete explanation of operating range in Supplement section.

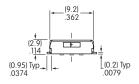


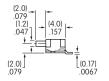
TYPICAL SWITCH DIMENSIONS

Shorting Contacts

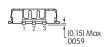






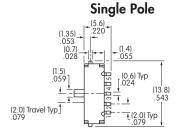


Coplanar Dimension

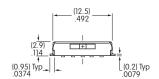


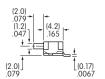


Nonshorting Contacts

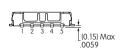








Coplanar Dimension



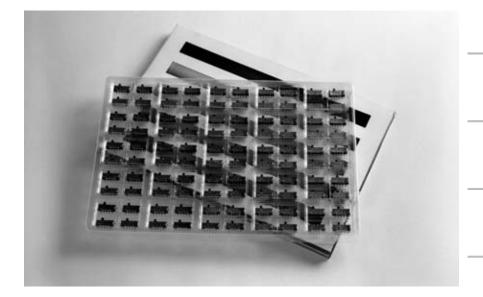


PACKAGING



If the SS3 is ordered in less than 500-piece increments, the switches are packaged in a partitioned tray. No code is required.

Partitioned Tray



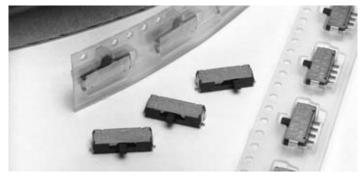
PACKAGING

R

Tape-Reel Packaging

Switches must be ordered in 500-piece increments when tape-reel packaging is selected.

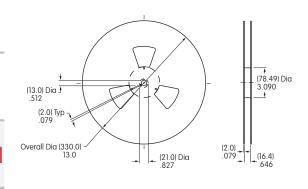
Tape-reel packaging meets EIA-481-D Standard.

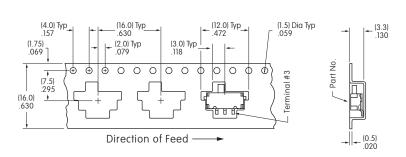


Tape-Reel Packaging for SS312SAH4

Each tape-reel of 530 pockets contains 500 switches.

Minimum Leader Length: 11.97" (304mm) Minimum Trailer Length: 6.93" (176mm)





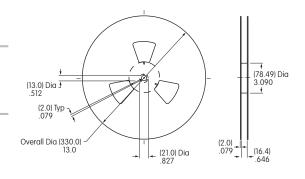
Reel Dimensions

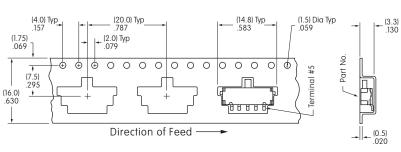
Tape Dimensions

Tape-Reel Packaging for SS314MAH4

Each tape-reel of 530 pockets contains 500 switches.

Minimum Leader Length: 14.96" (380mm) Minimum Trailer Length: 8.66" (220mm)





Reel Dimensions

Tape Dimensions

