## imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



### Contact us

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## **Series SM**

# General Specifications

#### **Electrical Capacity (Resistive Load)**

Maximum Level: Minimum Level:

500mA @ 12V DC 1.0mA maximum @ 10mV AC/DC maximum

#### **Other Ratings**

Contact Resistance:	30 milliohms maximum				
Insulation Resistance:	100 megohms minimum @ 500V DC				
Dielectric Strength:	500V AC for 1 minute minimum				
Mechanical Life:	1,000 operations minimum				
Electrical Life:	1,000 operations minimum				
Nominal Operating Force:	2.0N				
Contact Timing:	Nonshorting (Break-before-make)				
Total Travel:	.063″ (1.6mm)				

#### **Materials & Finishes**

Actuator:	Glass fiber reinforced polyester (UL94V-0)
Case:	Glass fiber reinforced polyamide (UL94V-0)
Lower Case:	Glass fiber reinforced polyester (UL94V-0)
Movable Contacts:	Brass with gold plating over nickel
Stationary Contacts	Brass with gold plating over nickel
Terminals:	Brass with gold plating over nickel

#### Н **Environmental Data**

	Operating Temp Range:	-40°C through +85°C (-40°F through +185°F)
	Humidity:	90-95% humidity for 96 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
5	Shock:	50G (490m/s <sup>2</sup> ) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
	PCB Processing	
	Soldering:	Wave Soldering Recommended: See Profile A in Supplement section.
	· ·	Manual Soldering: See Profile B in Supplement section.
	Cleaning:	These devices are not process sealed. Hand clean locally using alcohol based solution.

#### **Standards & Certifications**

Flammability Standards:	Actuator and lower case of glass fiber reinforced polyester and case of glass fiber reinforced
Hammability Standards.	polyamide UL94V-0
	The SM series devices have not been tested for UL recognition and CSA certification.
	These switches are designed for use in a low-voltage, low-current circuit.
	When used as intended in a low-voltage, low-current circuit, the results do not produce
	hazardous energy.



Touch



Toggles

Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

Indicators

Supplement Accessories

# Distinctive Characteristics

Very compact dimensions allow for high density, side-by-side or end-to-end mounting within tight dimensional applications.

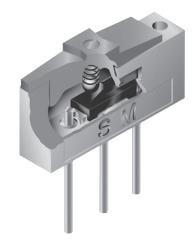
Detent mechanism provides positive actuation to indicate circuit status.

Visible indication of position by spot on top of red actuator and through window on side.

Twin sliding contact mechanism with self-cleaning action provides smooth actuation and produces high contact reliability.

.100" x .100" (2.54mm x .2.54mm) center-to-center inch terminal spacing allows standard PC board mounting in side-by-side or end-to-end arrangements.

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





POLES & CIRCUITS							Tactiles		
	Slide Position			Connected Terminals		Throw & Schematics			
	Right	Center	Left	Right	Center	Left	Note: Terminal numbers are		- - -
Model							on the switch.		
SM0320102	ON	NONE	ON	1-3	OPEN	1-2	SPDT 3•	• 1 (COM) • 2	Touch

#### **TYPICAL SWITCH DIMENSIONS**

