

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!



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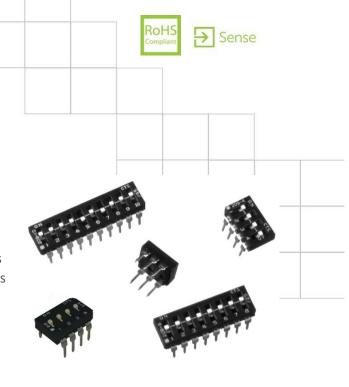






Series 209/210 Through-Hole DIP Switch

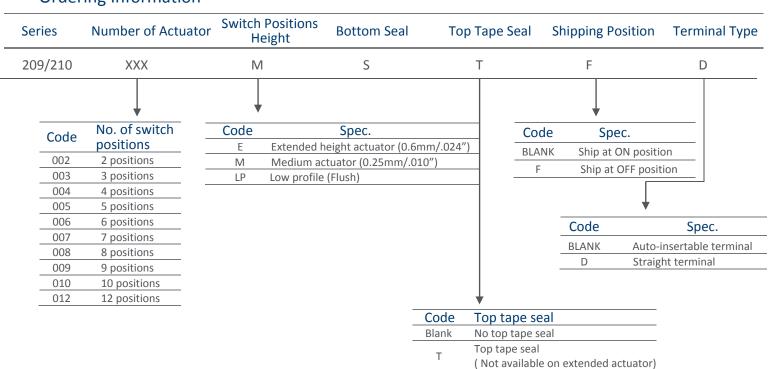
- Available with low profile, medium, and extended height actuators
- Available sealed to withstand insertion shock, wave solder temperatures, and board washing
- Series 209 premium gold plated beryllium copper contacts
- Series 210 economical gold flash beryllium copper contacts
- Low profile body
- RoHS compliant



Description

These versatile, low profile switches, are available with auto-insertable or hand-insertable terminal styles. The switches feature a positive detent feature separate from the contactor so it does not deflect during actuation. The molded body paired with the optional top tape seal provides optimum protection during soldering processes that includes board washing. This versatile switch is an ideal choice for most SPST applications.

Ordering Information



Notes: Contact CTS for other common features not listed.





Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
Operating Temperature		-40	+85	°C
Range		-40	+85	C

Switch Function

Circuit	SPST	2	12	positions
Contact Resistance (209)	Initial At end of life		25 50	milliohms
Contact Resistance (210)	Initial At end of life		100 500	milliohms
Insulation Resistance	Between insulated terminals	1000		megohms
Dielectric Strength	500 VAC between adjacent switches		1	minute
Actuation Life (209)	100mA @ 20 VDC or .1mA @ 5 VDC(dry circuit)		2,000	cycles
Actuation Life (210B)	100mA @ 20 VDC or .1mA@5 VDC(dry circuit)		1,000	cycles
Switch Capacitance	Between adjacent closed switches		5.0	pF
Non-switching Rating			100	mA
			or 50	or VDC

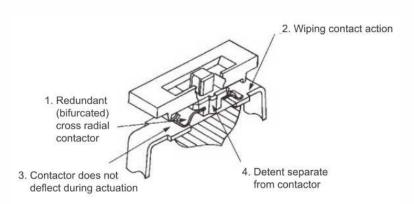
Mechanical and Environmental

Soldering	Maximum wave temperature, 260°C for 5 seconds		
MSL	Level 1		
RoHS	Lead-Free. Fully compliant to RoHS Directive 2011/65/EU		
Shock	Per MIL-STD-202F, method 213B, condition A (50G's)		
	with no contact inconsistencies greater than 1 microsecond		
Vibration	Per MIL-STD-202F, method 204D, condition B (.06" or 15G's between 10 HZ to 2K HZ) with		
	no contact inconsistencies greater than 1 microsecond		
Seal	Bottom seal standard, optional top tape seal		
Marking	Special top marking available-consult CTS		
Packaging:	Standard anti-static tube packaging		
Storage Temperature Range	-40°C to +85°C		



Mechanical Specifications

Series 209 / 210 Contact Features



- Value of Redundant (Bifurcated)
 Contacts: Redundancy
 dramatically reduces the probability of
 contact failure, IMPROVING
 RELIABILITY.
- 2. Value of Wiping Contact Action: Clean contact area, IMPROVING RELIABILITY.
- Value of Contactor Not Deflecting During Actuation: Constant contact pressure eliminates overstressing contacts, IMPROVING RELIABILITY.
- 4. Value of Detent Separate from Contactor: Separate detent allows optimization of nondeflecting contactor and detent designs, IMPROVING RELIABILITY.

