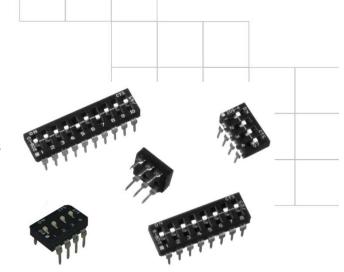


# Series 209/210 Through-Hole DIP Switch

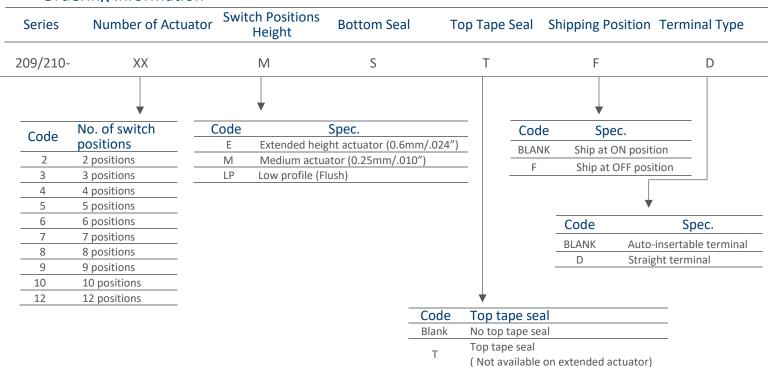
- Available with low profile, medium, and extended height actuators
- Series 209 premium gold plated beryllium copper contacts
- Series 210 economical gold flash beryllium copper contacts
- Low profile body
- RoHS compliant
- Optional top tape seal for board spray washing



#### 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 spray 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	±0E	°C
Range		-40	+85	C

### **Switch Function**

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

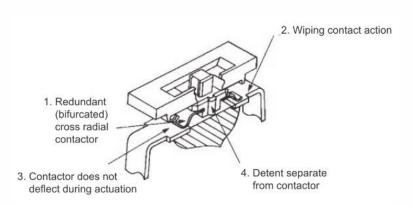
#### Mechanical and Environmental

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 for board spray washing	
Marking	Special top marking available-consult CTS	
Packaging:	Standard anti-static tube packaging	
Storage Temperature Range	-40°C to +85°C	

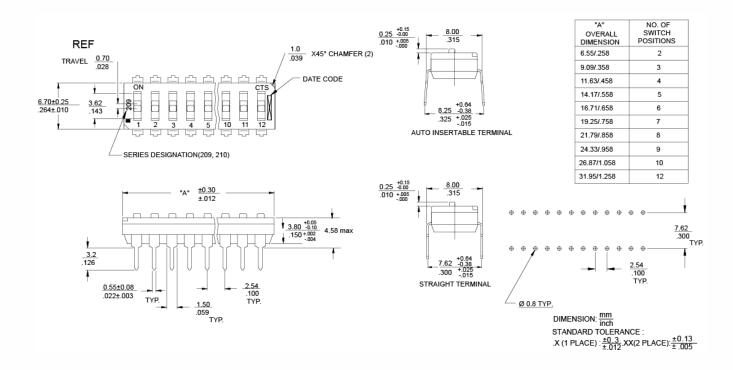


### **Mechanical Specifications**

#### 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.
- Value of Detent Separate from Contactor: Separate detent allows optimization of nondeflecting contactor and detent designs, IMPROVING RELIABILITY.



## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for CTS manufacturer:

Other Similar products are found below:

744C083333JP 296UD504B1N 262XR102B CB3LV-3C-32M7680 744C083222JP 770101223 026TB32R253B1A1 APF30-30-13CB/A01 ATS061C ATS12ASM-1E 743C083104JP 744C083472JP 77083103P 218-10LPSTRF O7050147456MFDA4SC 402WF20012IMR KFF6516A 194-8MST 742C083330JPTR 750-101-R120 77083105P TX0506-1B 219-7LPST 766143221GP CTS-1621 284TBCF502A26A1 766163560GP CB3-3I-20M0000 636L5I016M00000 4400-032 219-8LPST 201XR104B 209-2MSF 6740-2015 CB3-3C-1M5440 T8031-5V ATS16ASM-1E 767163104D PB1-36ND ATS049BSM-1E 752105191AP 4400-095LF MP100B 767141102GP 766145191APTR7 CB3LV-3C-25. 0000-T CA32C12504GMT 770101331P 767161152GP 406C35B24M57600