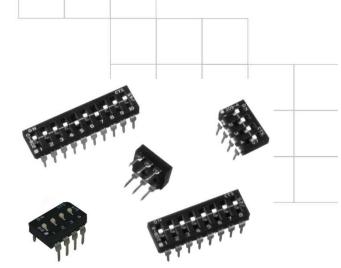


Series 209/210 Through-Hole DIP Switch

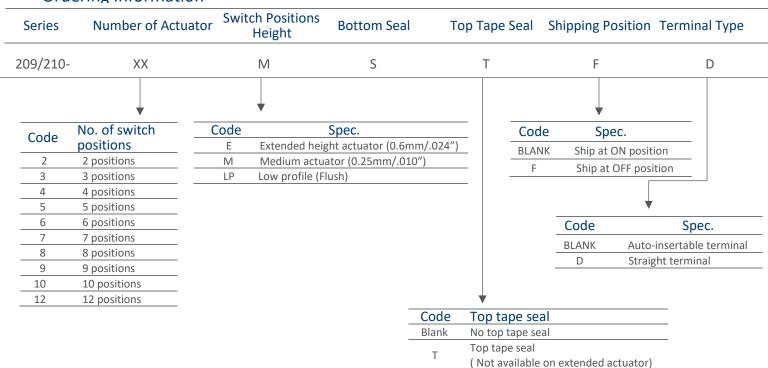
- Available with low profile, medium, and extended height actuators
- Series 209 premium gold plated beryllium copper contacts
- Series 210 economical gold flash beryllium copper contacts
- Low profile body
- RoHS compliant
- Optional top tape seal for board spray washing



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	minute
Dielectric Strength	switches		1	
Actuation Life (209)	100mA @ 20 VDC or		2.000	cycles
	.1mA @ 5 VDC(dry circuit)		2,000	
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

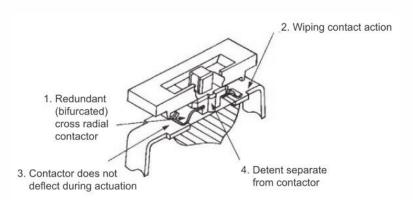
Mechanical and Environmental

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	-40°C to +85°C
Range	-40 C to +83 C

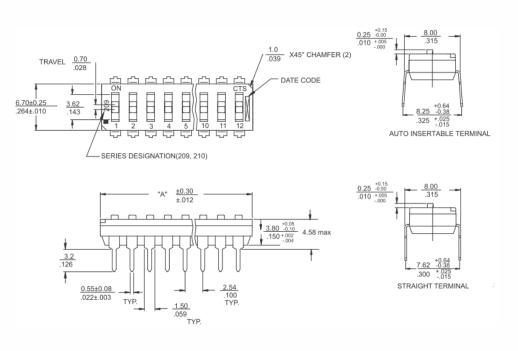


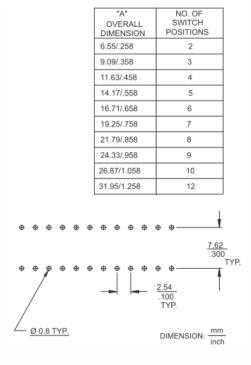
Mechanical Specifications

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.





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