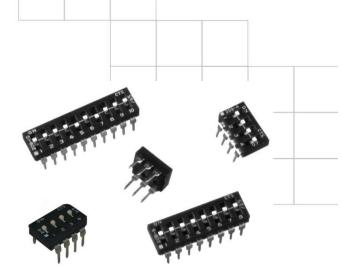


Series 209/210 Through-Hole DIP Switch

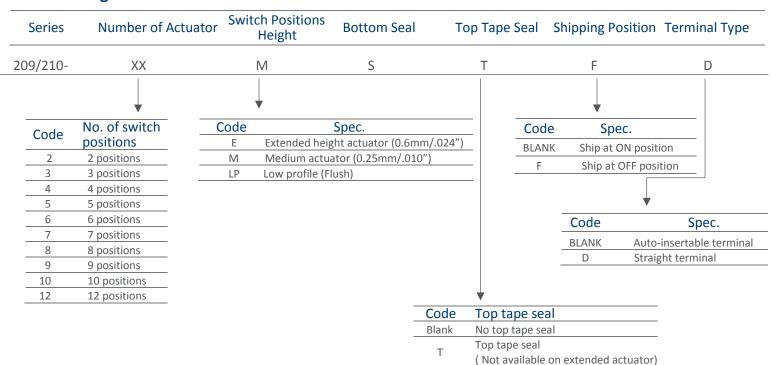
- Available with low profile, medium, and extended height actuators
- Series 209 premium gold plated beryllium copper contacts
- Series 210 economical gold flash beryllium copper contacts
- Low profile body
- RoHS compliant
- Optional top tape seal for board spray washing



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

Conditions & Remarks	Min	Max	Unit
Initial		25	milliohms
At end of life		50	
Initial		100	milliohms
At end of life		500	
Between	1000	magahma	
insulated terminals	1000		megohms
500 VAC between		1	minute
adjacent switches		1	
Between adjacent closed		5.0	pF
switches			
		100	mA
		or	or
		50	VDC
SPST	2	12	positions
	Initial At end of life Initial At end of life Between insulated terminals 500 VAC between adjacent switches Between adjacent closed switches	Initial At end of life Initial At end of life Between insulated terminals 500 VAC between adjacent switches Between adjacent closed switches	Initial 25 At end of life 50 Initial 100 At end of life 500 Between 1000 insulated terminals 1000 Solvac between adjacent switches 1 Between adjacent closed switches 5.0 Initial 1000 Between 1000 Initial 1000 Initial 1000 Initial 1000 Initial 25 Initial 1000 Initial 1000

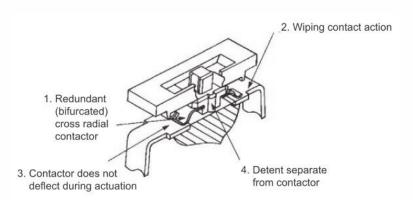
Mechanical and Environmental

Actuation Life (209)	2,000 cycles switching 100mA @ 20 VDC or .1mA @ 5 VDC(dry circuit)
Actuation Life (210B)	1,000 cycles switching 100mA @ 20 VDC or .1mA @ 5 VDC(dry circuit)
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 t0 +65 C
Operating Temperature	-40°C to +85°C
Range	



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.

