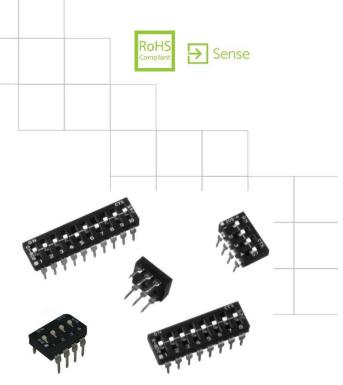


# Series 209/210 Through-Hole DIP Switch

- 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**

Series	Number of Actuator	Swite	ch Positions Height	Bottom Seal	То	p Tape	Seal S	hipping P	osition Ter	minal Type
209/210-	XX		Μ	S		Т		F		D
	•		•					•		
Code	No. of switch	Code		Spec.		-	Code	Sp	ec.	_
	positions	Е	Extended heig	t actuator (0.6mr	n/.024")		BLANK		ON position	—
2	2 positions	Μ	Medium actua	ator (0.25mm/.010	")	_	F	-	OFF position	—
3	3 positions	LP	Low profile (Fl	ush)		_	1	Shipat		
4	4 positions									
5	5 positions								•	
6	6 positions							Code		Spec.
7	7 positions							BLANK	Auto-inser	table terminal
8	8 positions							D	Straight te	
9	9 positions								Straight to	
10	10 positions									
12	12 positions					*				
					Code	Top ta	pe seal			
					Blank	No top t	ape seal			
					Т	Top tape		extended a	(tustor)	

Notes: Contact CTS for other common features not listed.

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#### **Electrical Specifications**

Parameter	<b>Conditions &amp; Remarks</b>	Min	Max	Unit
Operating Temperature 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 (210)	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 or	mA or

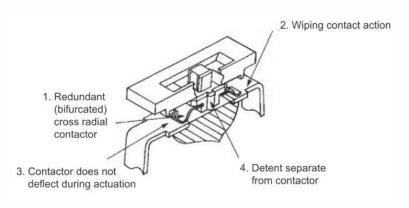
#### Mechanical and Environmental

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)			
SHOCK	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			
VIDIALIOII	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	40 010 100 0			

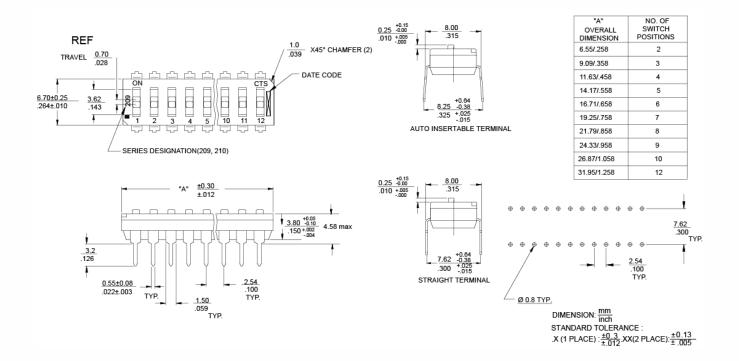
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### Series 209 / 210 Contact Features



- 1. Value of Redundant (Bifurcated) Contacts: Redundancy dramatically reduces the probability of contact failure, IMPROVING RELIABILITY.
- Value of Wiping Contact Action: Clean contact area, IMPROVING RELIABILITY.
- 3. 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.



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