

Panel Potentiometer

Model P09x Series



Features:

- 9 mm rotary
- Multi-ganged
- 100,000 cycle life
- Metal shaft / bushing
- Switch / push-lock option
- Concentric shaft option
- Center tap option



Model Styles Available

Side Adjust, PCB pins, up to 8 gangs	P09xN
Side Adjust, PCB pins, up to 8 gangs, with Switch	P09xS
Top Adjust, PCB pins, up to 2 gangs	P09x5N
Side Adjust, PCB pins, with Push-Lock, up to 2 gangs	P09xP
PCB pins, with Concentric Shaft	P09xC
PCB pins, with Center Tap	P09xT

Electrical

Resistance Range, Ohms	1K-500K
Standard Resistance Tolerance	± 20%
Residual Resistance	20 ohms max.
Input Voltage, maximum	50 Vac max.
Power rating, Watts	Taper B: 0.05W Other Tapers: .025W
Dielectric Strength	300Vac, 1 minute
Insulation Resistance, Minimum	100M ohms at 250Vdc
Sliding Noise	100mV max.
Gang Error (Multi-ganged)	-40dB – 0dB, ±3dB
Switch Contact Resistance	< 100 milliohms
Switch Power Rated	3.0A at 16Vdc

Mechanical

Total Mechanical Travel	300°± 10°
Static Stop Strength	50 oz-in
Rotational Torque	0.5 to 1.25 oz-in
Switch Rotational Angle, Maximum	50°

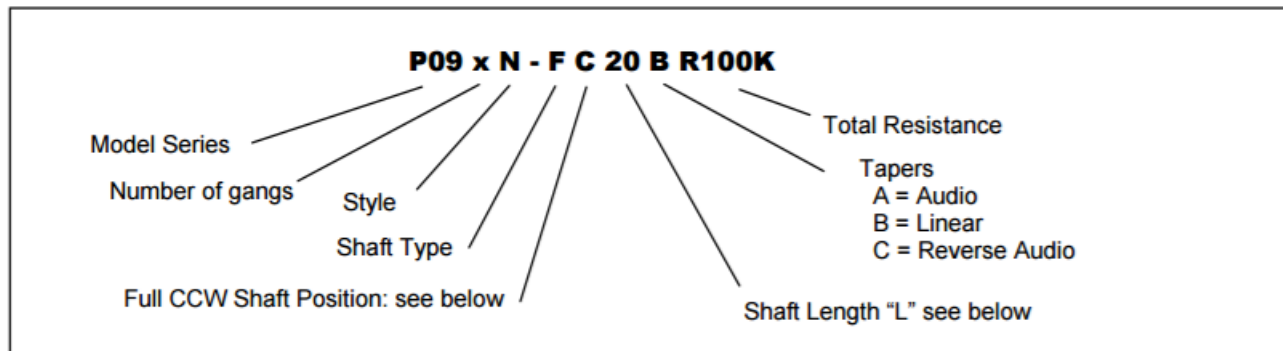
General Note

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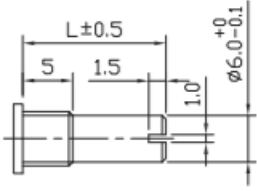
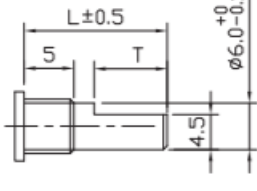
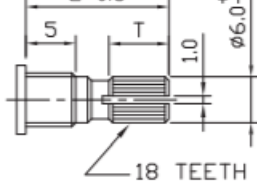
Environmental

Operating Temperature Range	-40°C to +85°C
Rotational Life	100,000 cycles

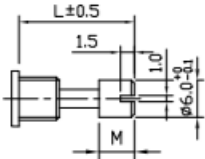
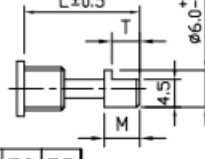
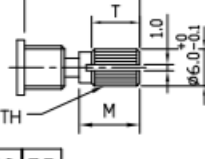
Ordering



Shaft Types (P09xN, P09xS, P09x5N)

E-TYPE						F-TYPE						Q-TYPE					
																	
L	10	15	20	25	30	L	10	15	20	25	30	L	10	15	20	25	30
T	4	7	12	12	12	T	4	7	12	12	12	T	4	6	12	12	12

Shaft Types for Push-Lock (P09xP)

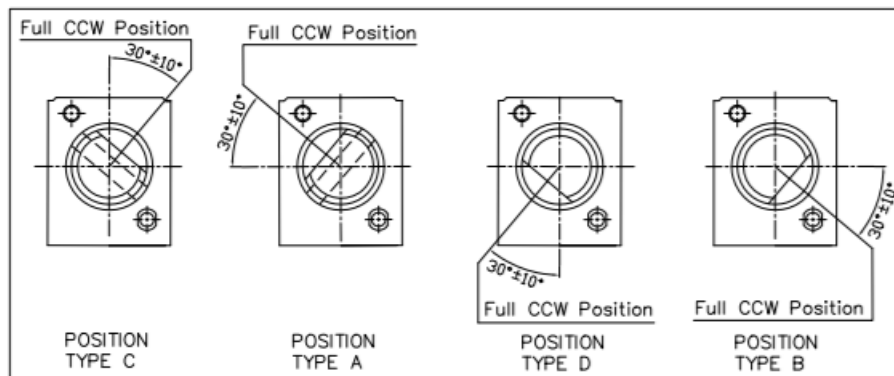
E-TYPE					F-TYPE					Q-TYPE				
														
L	25	30	35		L	25	30	35		L	25	30	35	
M	5.7	10.7	15.7		T	4.5	7	12		T	3	6	12	
					M	5.7	10.7	15.7		M	5.7	10.7	15.7	

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Shaft Position (F-Type Shaft)

Dashed lines on Type "C" and Type "A" shows position of adjustment slot for E-Type and Q-Type shafts

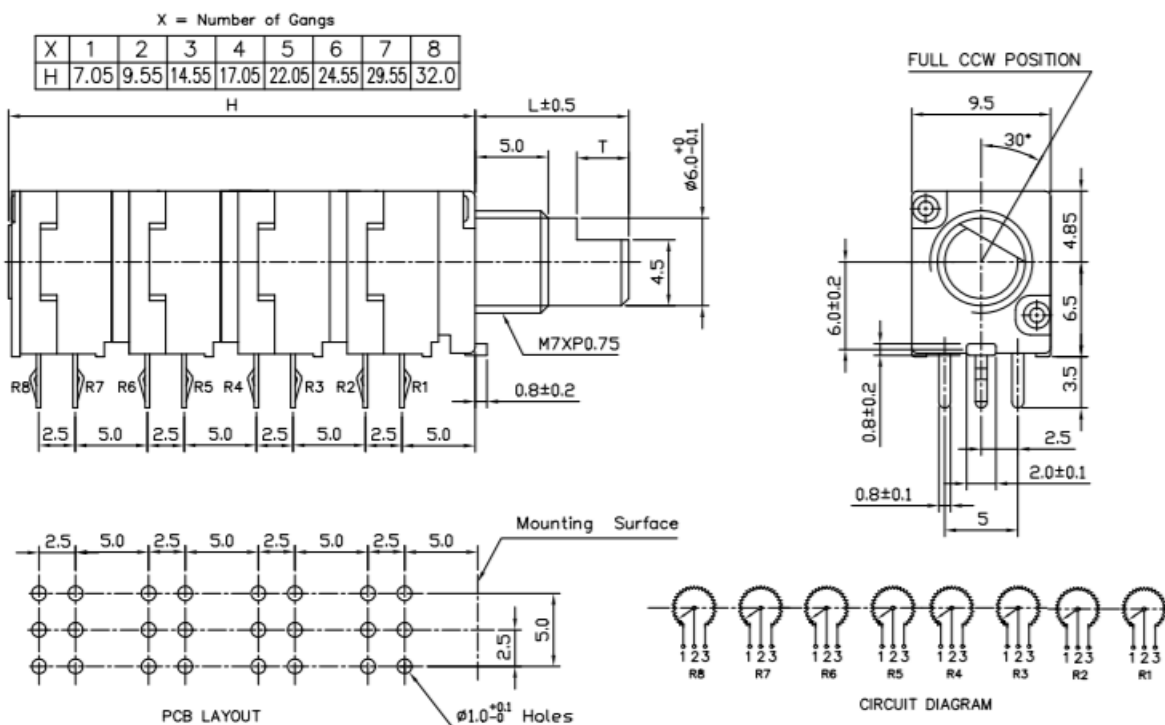


STANDARD RESISTANCE VALUES, OHMS

1K 2K 5K 10K 20K 50K 100K 200K 500K

Outline Drawings

Model P09xN (Side Adjust, PCB pins, up to 8 gangs)

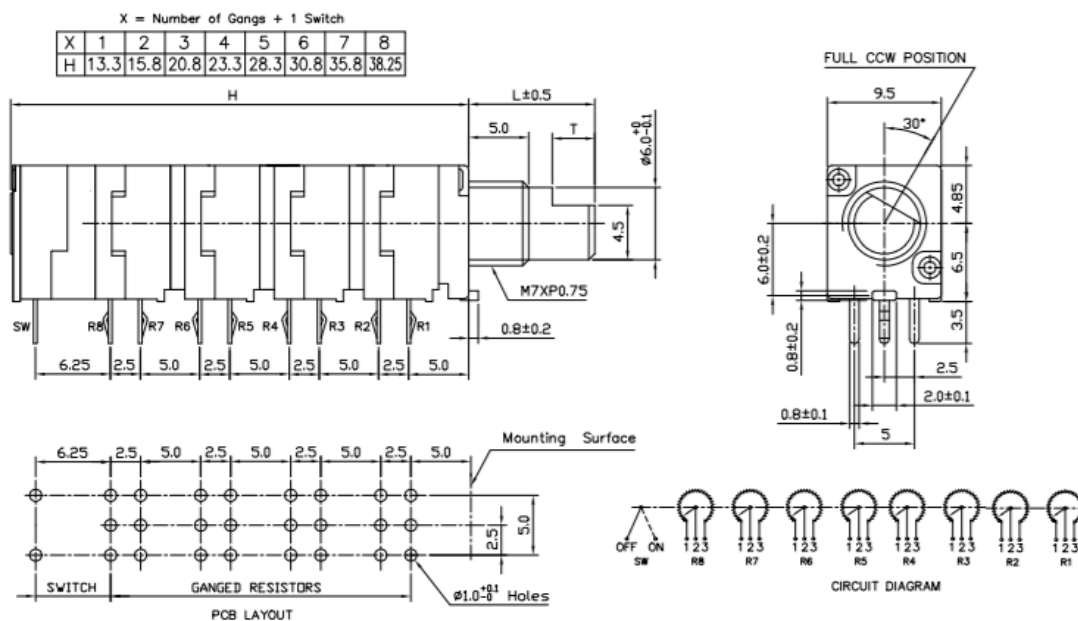


General Note

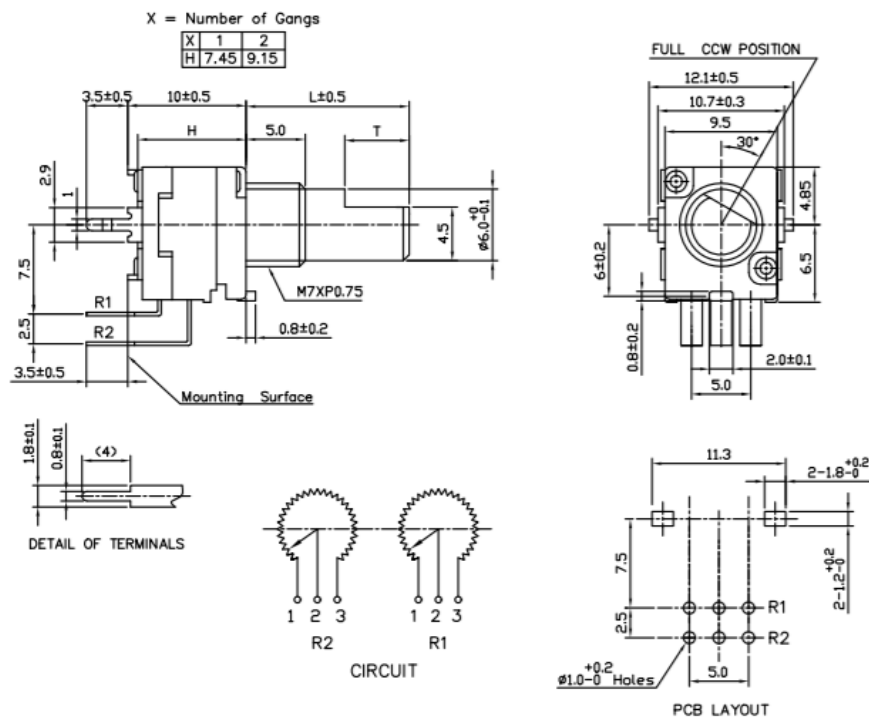
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Outline Drawings

Model P09xS (Side Adjust, PCB pins, up to 8 gangs, with Switch)



Model P09x5N (Top Adjust, PCB pins, up to 2 gangs)

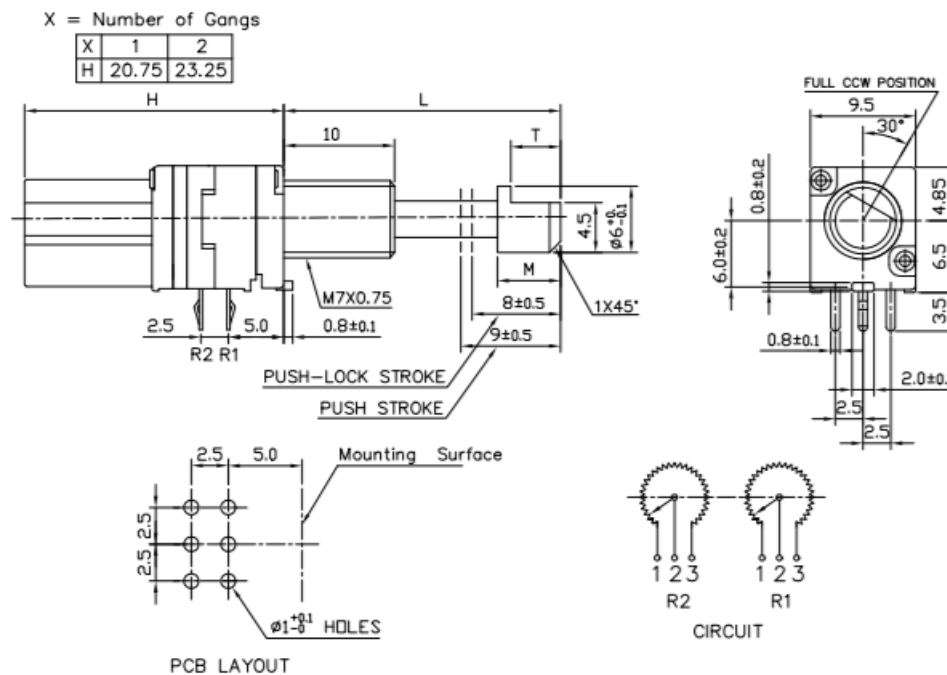


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Outline Drawings

Model P09xP (Side Adjust, PCB pins, with Push-Lock, up to 2 gangs)



General Note

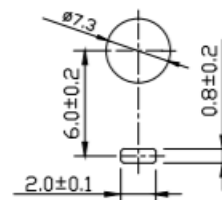
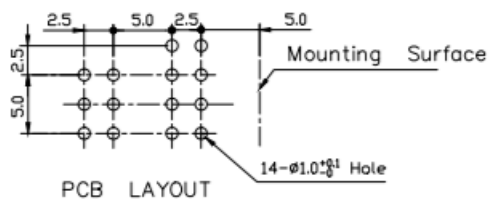
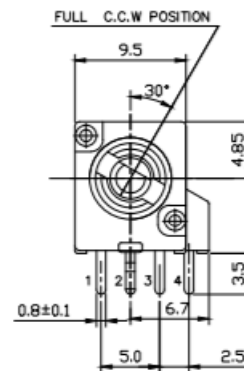
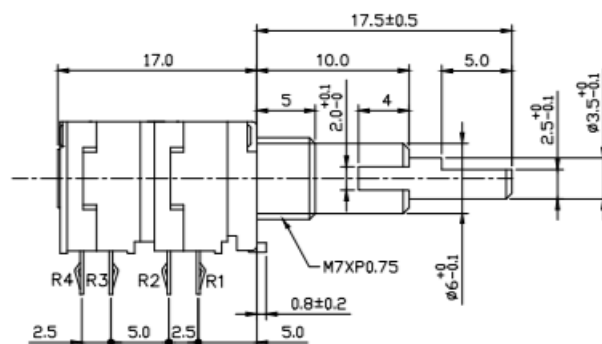
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Outline Drawings

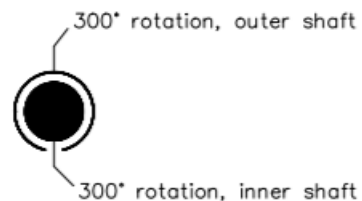
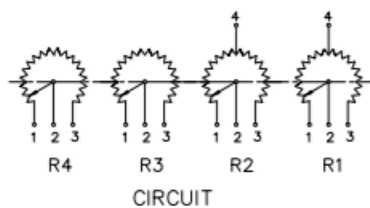
Model P09xC and P09xT (PCB pins with Concentric Shaft and Center Tap Options)

This Diagram shows both options

Please consult factory for details



PANEL LAYOUT



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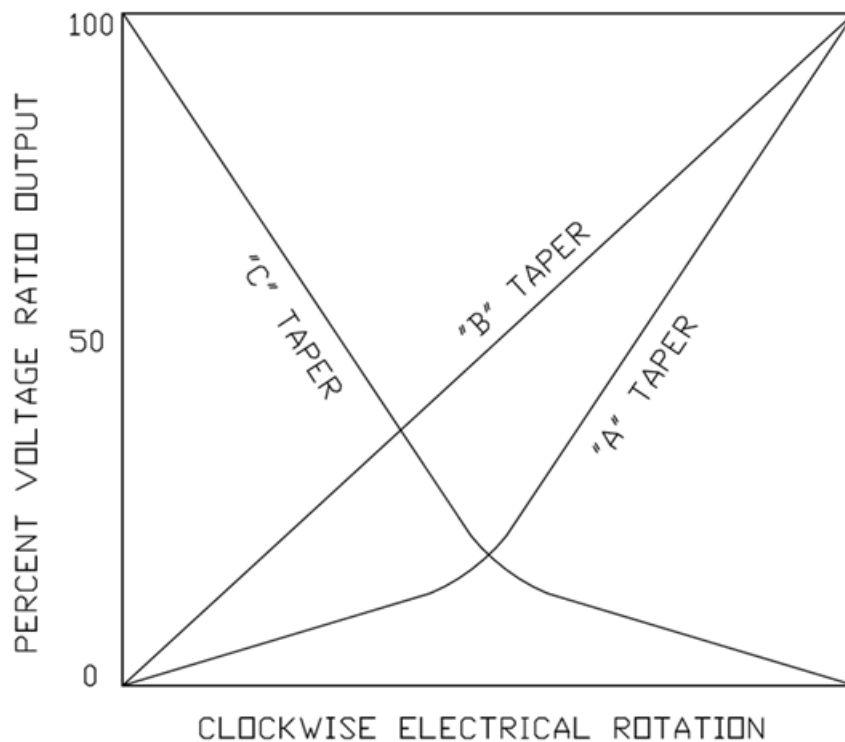
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TT Electronics | BI Technologies
Circulo de la Amistad #102 PIMSA IV Mexicali B.C. Mexico C.P 21210
Ph: +1 714 447 2345
www.ttelectronics.com/bi-technologies

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Mouser Electronics

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