

Model P09x
9mm Rotary Potentiometer
Multi – Ganged
Conductive Plastic Element
100,000 Cycle Life
Metal shaft / Bushing
Switch / Push-Lock Option
RoHS Compliant
Concentric Shaft Option
Center Tap Option



MODEL STYLES

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

ELECTRICAL¹

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

¹ Specifications subject to change without notice.

Model P09x

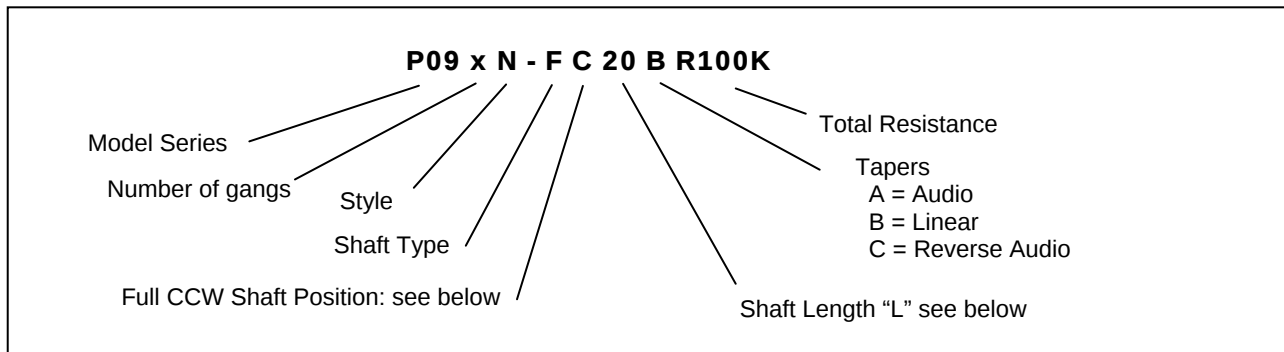
MECHANICAL

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°

ENVIRONMENTAL

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

ORDERING INFORMATION²



Shaft Types (P09xN, P09xS, P09x5N)

E-TYPE

Technical drawing of the E-TYPE shaft. The shaft has a total length of $L \pm 0.5$. It features a central section with a diameter of $\phi 6.0_{-0.1}^{+0}$ and a length of 1.5. The distance from the left end to the start of this section is 5, and the distance from the end of this section to the right end is 1.0. The shaft is shown in a side view with a dashed centerline.

L	10	15	20	25	30
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F-TYPE

Technical drawing of the F-TYPE shaft. The shaft has a total length of $L \pm 0.5$. It features a central section with a diameter of $\phi 6.0_{-0.1}^{+0}$ and a length of T . The distance from the left end to the start of this section is 5, and the distance from the end of this section to the right end is 4.5. The shaft is shown in a side view with a dashed centerline.

L	10	15	20	25	30
T	4	7	12	12	12

Q-TYPE

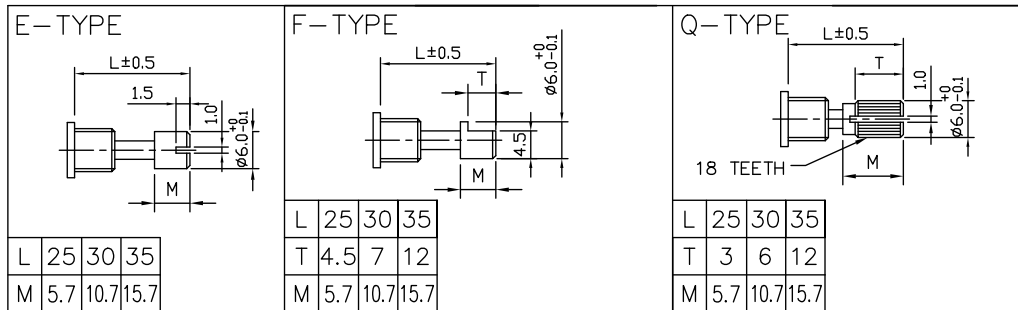
Technical drawing of the Q-TYPE shaft. The shaft has a total length of $L \pm 0.5$. It features a central section with a diameter of $\phi 6.0_{-0.1}^{+0}$ and a length of T . The distance from the left end to the start of this section is 5, and the distance from the end of this section to the right end is 1.0. The shaft is shown in a side view with a dashed centerline. The central section is labeled "18 TEETH".

L	10	15	20	25	30
T	4	6	12	12	12

² Contact our customer service for custom designs and features.

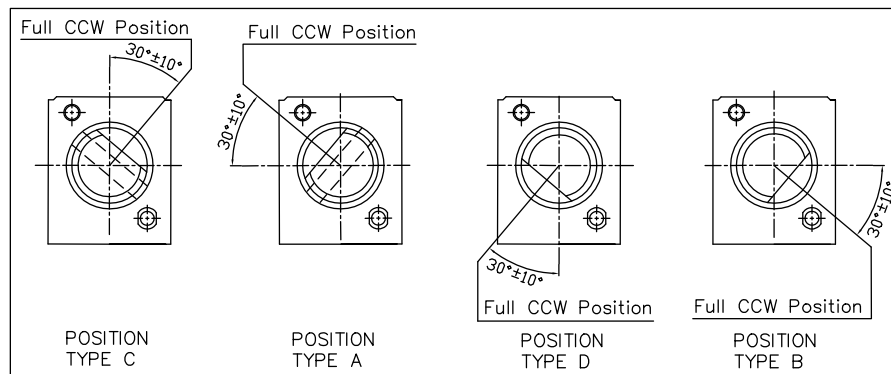
Model P09x

Shaft Types for Push-Lock (P09xP)



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



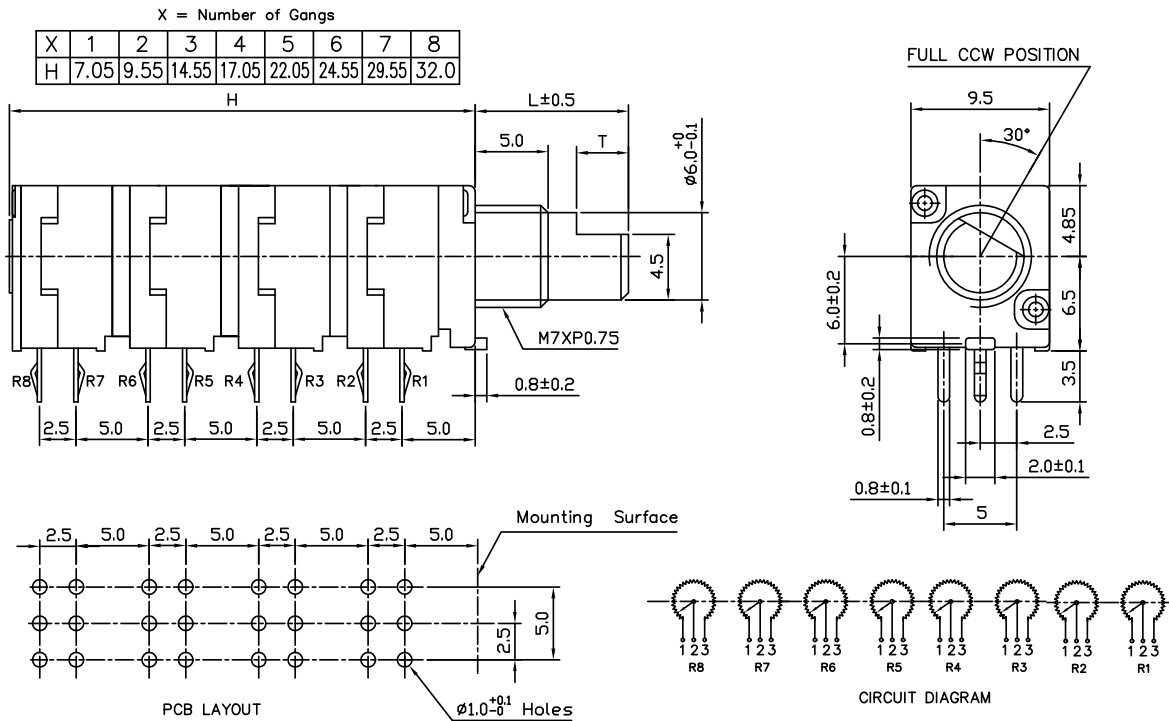
STANDARD RESISTANCE VALUES, OHMS

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

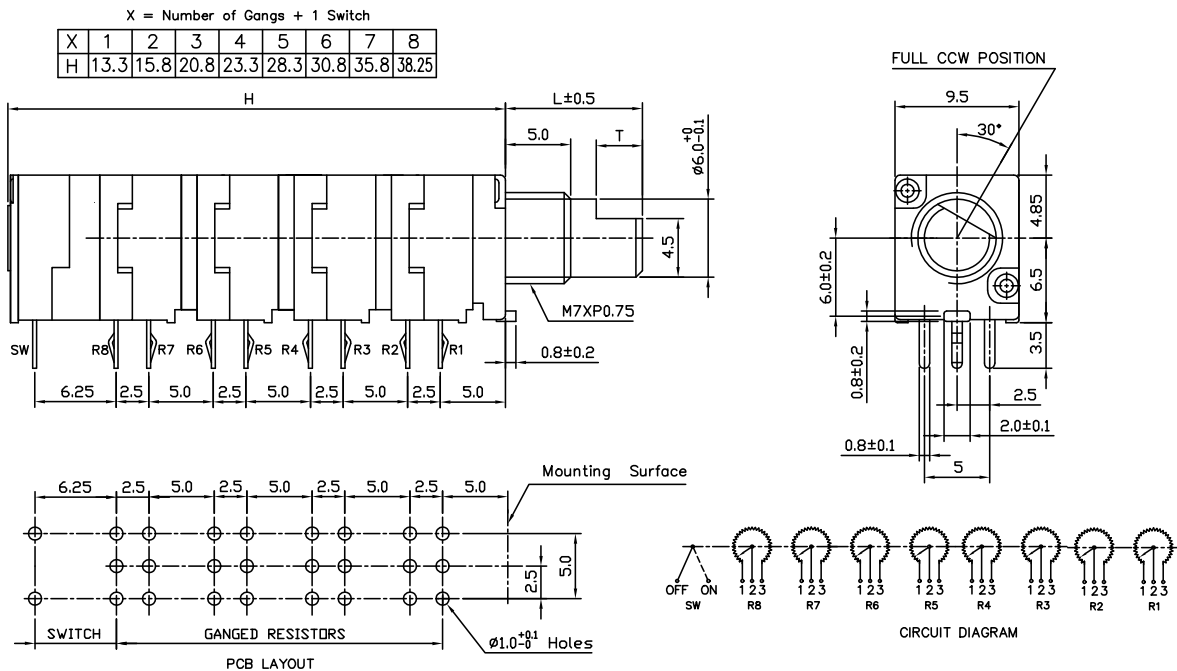
Model P09x

OUTLINE DRAWING

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



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

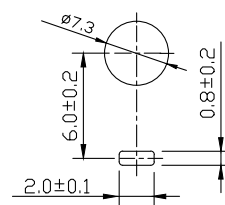
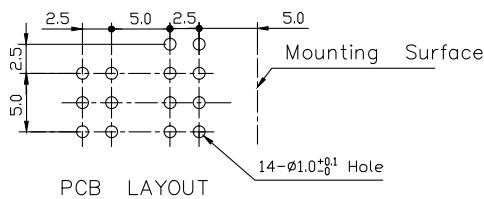
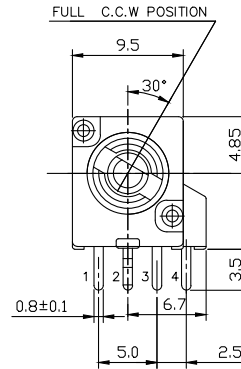
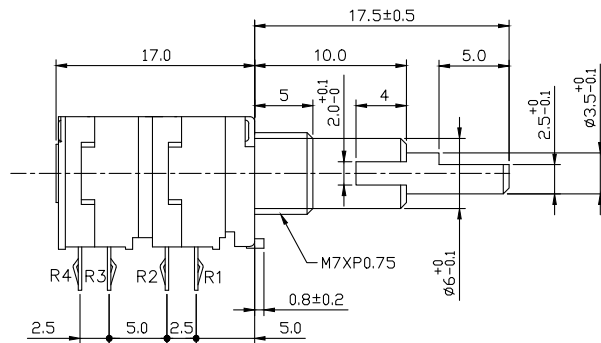


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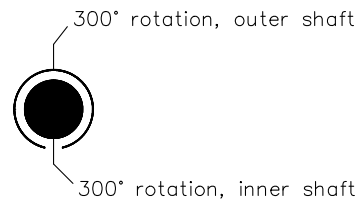
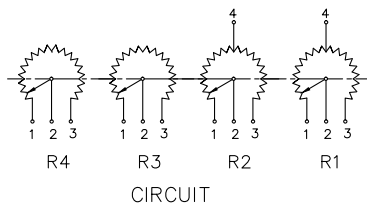
Model P09xC and P09xT (PCB pins with Concentric Shaft and Center Tap Options)

This Diagram shows both options

Please consult factory for details



PANEL LAYOUT



Mouser Electronics

Authorized Distributor

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BI Technologies:

[P092N-QC20AR100K](#) [P092N-QC20BR100K](#) [P091P-EA25BR100K](#) [P092N-QC20AR20K](#) [P091S-EC20BR50K](#)
[P092N-QC20BR20K](#) [P091P-FA25BR100K](#) [P091P-QA25BR100K](#) [P092N-FC20AR20K](#) [P0915N-FC20BR10K](#)
[P0915N-FC20BR5K](#) [P0915N-EC15BR2K](#) [P0915N-EC15BR100K](#) [P091P-FC25CR50K](#) [P0915N-FC15AR10K](#)
[P0915N-FC15BR50K](#) [P0915N-FC20BR50K](#) [P091P-FC25AR50K](#) [P091P-FC30AR50K](#) [P0925N-FC15AR10K](#) [P0925N-FC15BR50K](#) [P0925N-FD15BR50K](#) [P092N-EC15BR20K](#) [P092N-FC20B500K](#) [P092P-FC20AR5K](#) [P092P-FC25AR50K](#)
[P092P-FC25AR5K](#) [P092P-FC30AR50K](#) [P0915NFC15-AR500K](#) [P0915NFC15-BR25K](#) [P0915N-FC15AR50K](#)
[P0925N-FC15CR500K](#) [P0915N-QC15BR100k](#)

TT electronics:

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