

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

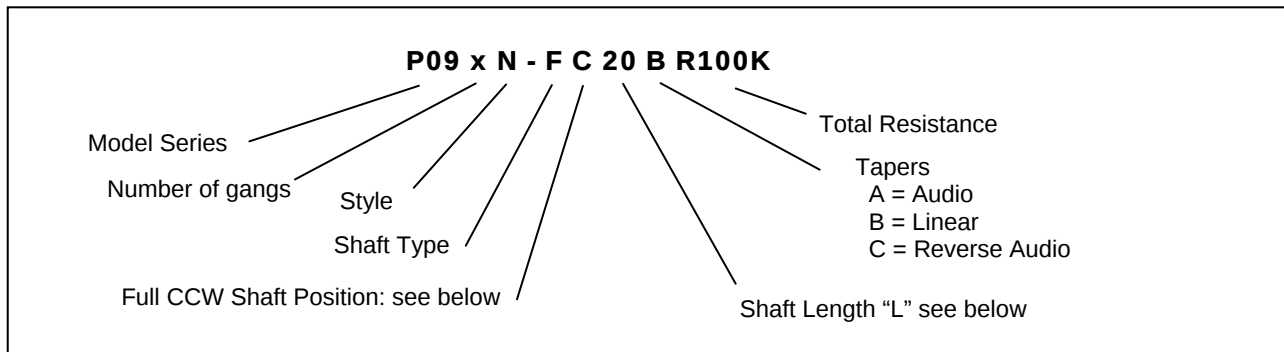
MECHANICAL

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 cross-section. The shaft has a total length $L \pm 0.5$. It features a 5mm long section on the left and a 1.5mm long section on the right. The right section has a 1.0mm wide slot. The outer diameter is $\varnothing 6.0 -0.1 +0$.

L	10	15	20	25	30
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F-TYPE

Technical drawing of the F-TYPE shaft cross-section. The shaft has a total length $L \pm 0.5$. It features a 5mm long section on the left and a T mm long section on the right. The right section has a 4.5mm wide slot. The outer diameter is $\varnothing 6.0 -0.1 +0$.

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

Q-TYPE

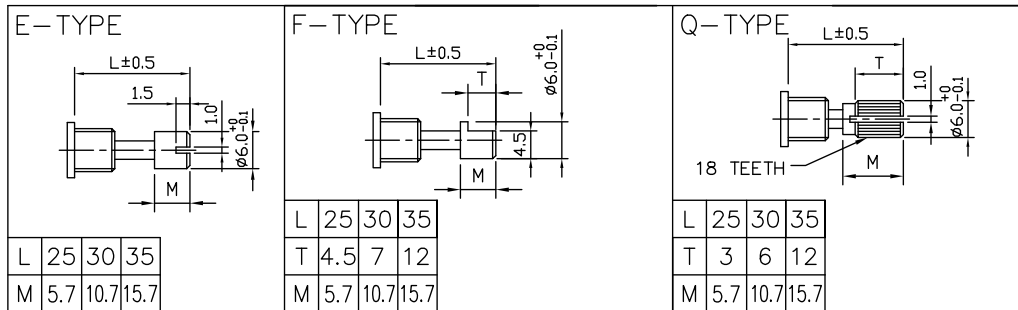
Technical drawing of the Q-TYPE shaft cross-section. The shaft has a total length $L \pm 0.5$. It features a 5mm long section on the left and a T mm long section on the right. The right section has a 1.0mm wide slot. The outer diameter is $\varnothing 6.0 -0.1 +0$. The right section is labeled 18 TEETH.

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

² Contact our customer service for custom designs and features.

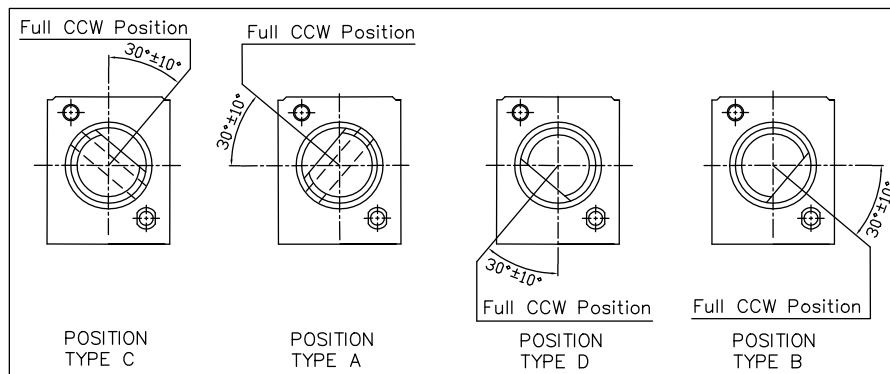
Model P09x

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



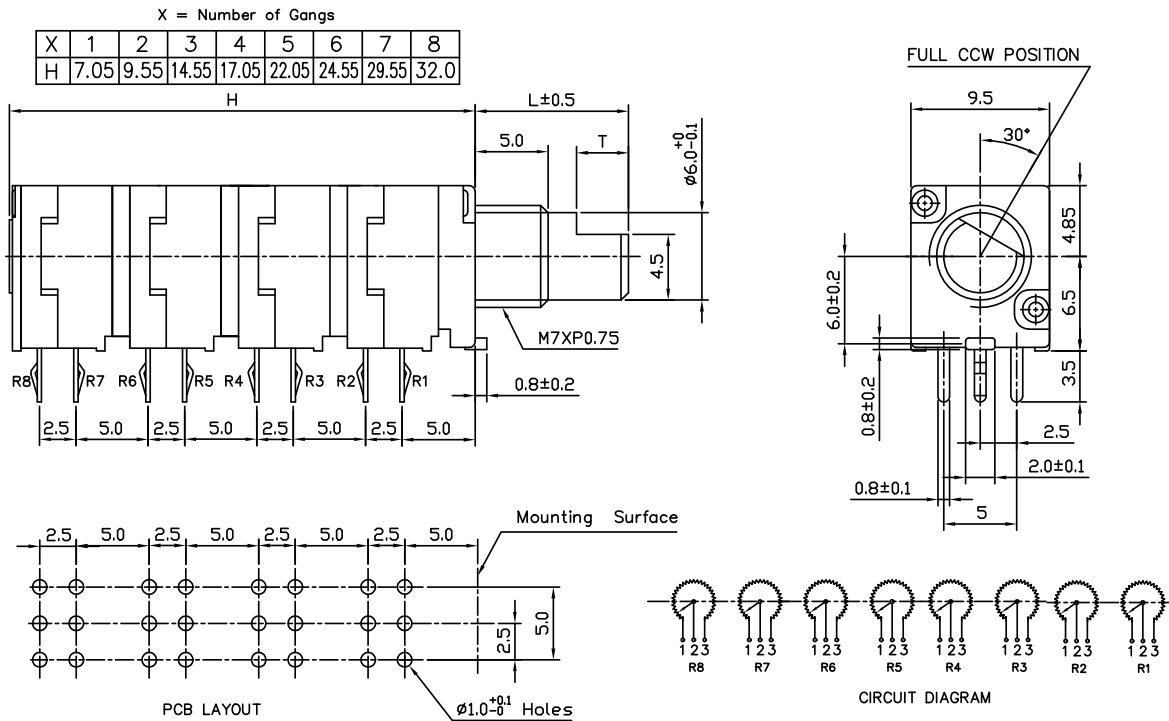
STANDARD RESISTANCE VALUES, OHMS

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

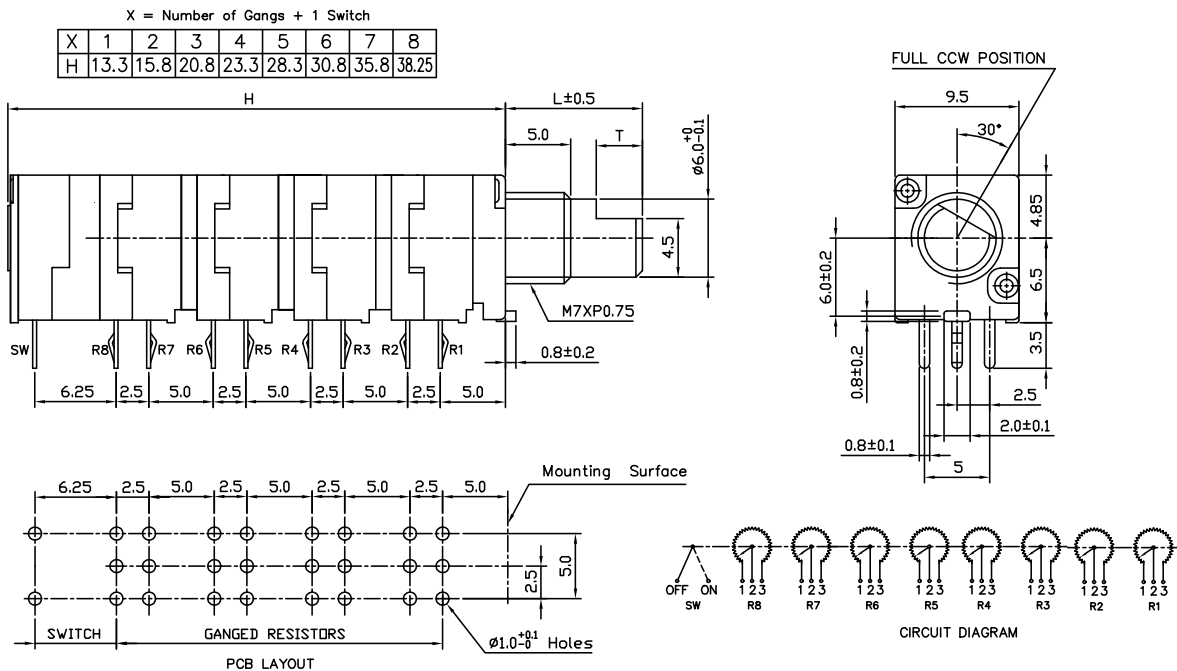
Model P09x

OUTLINE DRAWING

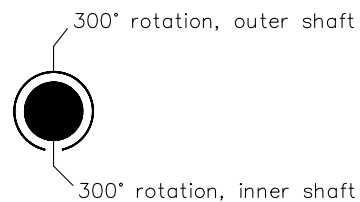
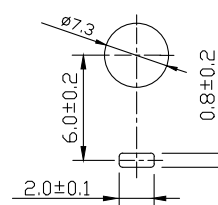
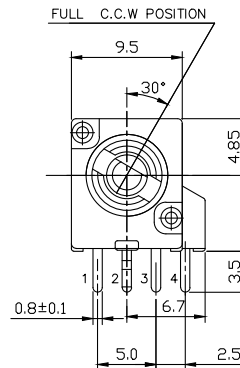
Model P09xN (Side Adjust, PCB pins, up to 8 gangs)



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



Model P09xC and P09xT (PCB pins with Concentric Shaft and Center Tap Options)
This Diagram shows both options
Please consult factory for details



Mouser Electronics

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BI Technologies:

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[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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