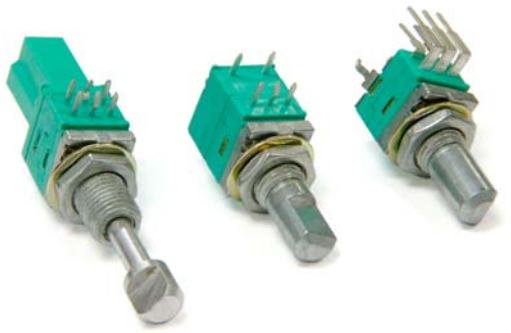
Model P09x
9mm Rotary Potentiometer
Multi – Ganged
Conductive Plastic Element
100,000 Cycle Life
Metal shaft / Bushing
Switch / Push-Lock Option
RoHS Compliant
Concentric Shaft Option
Center Tap Option



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

ELECTRICAL[1]

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, I 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

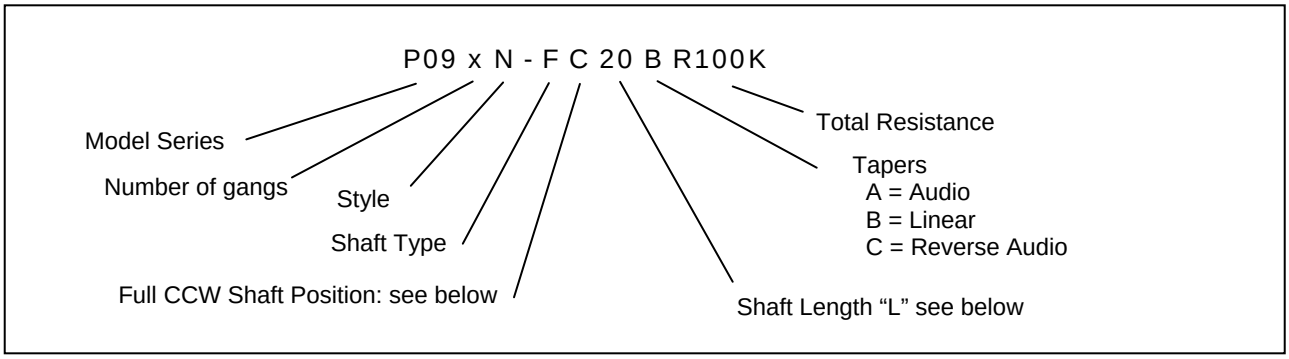
MECHANICAL

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°

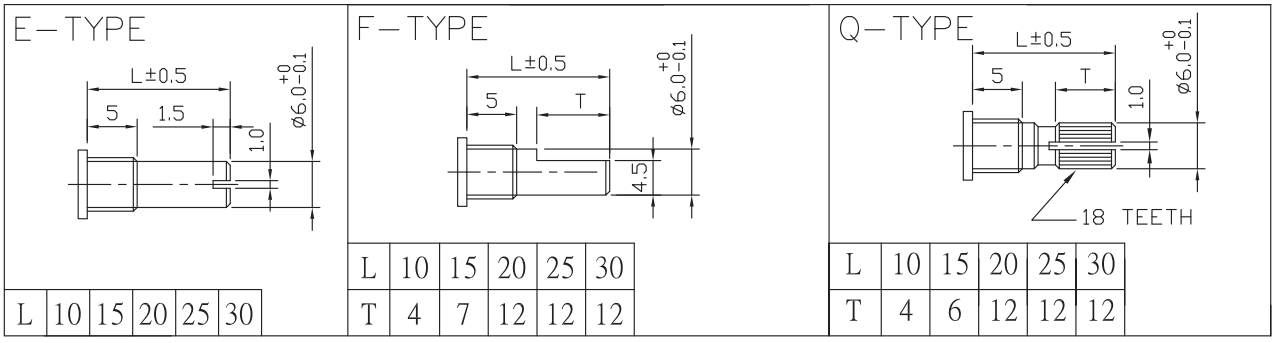
ENVIRONMENTAL

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

ORDERING INFORMATION[2]



Shaft Types (P09xN, P09xS, P09x5N)



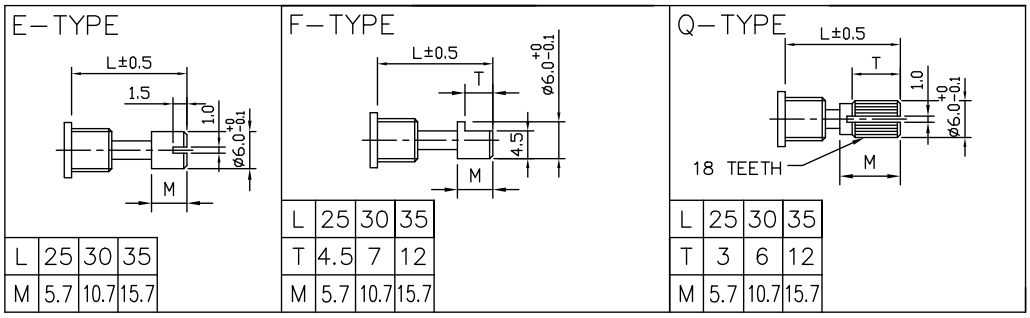
L	10	15	20	25	30

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

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

[2] *Contact our customer service for custom designs and features.*

Shaft Types for Push-Lock (P09xP)



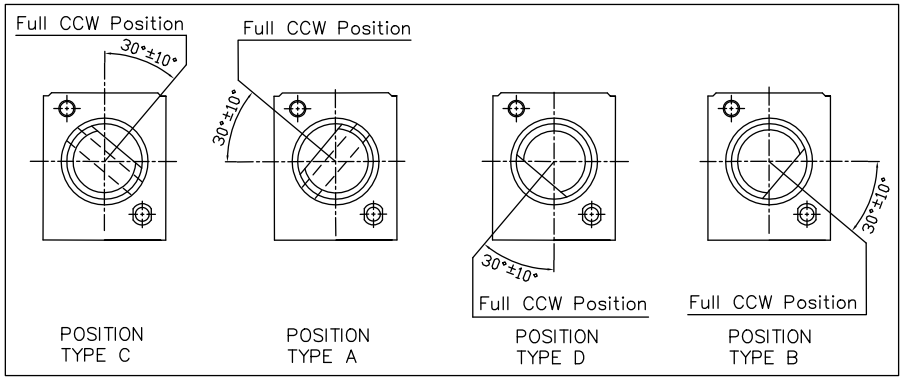
L	25	30	35
M	5.7	10.7	15.7

L	25	30	35
T	4.5	7	12
M	5.7	10.7	15.7

L	25	30	35
T	3	6	12
M	5.7	10.7	15.7

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

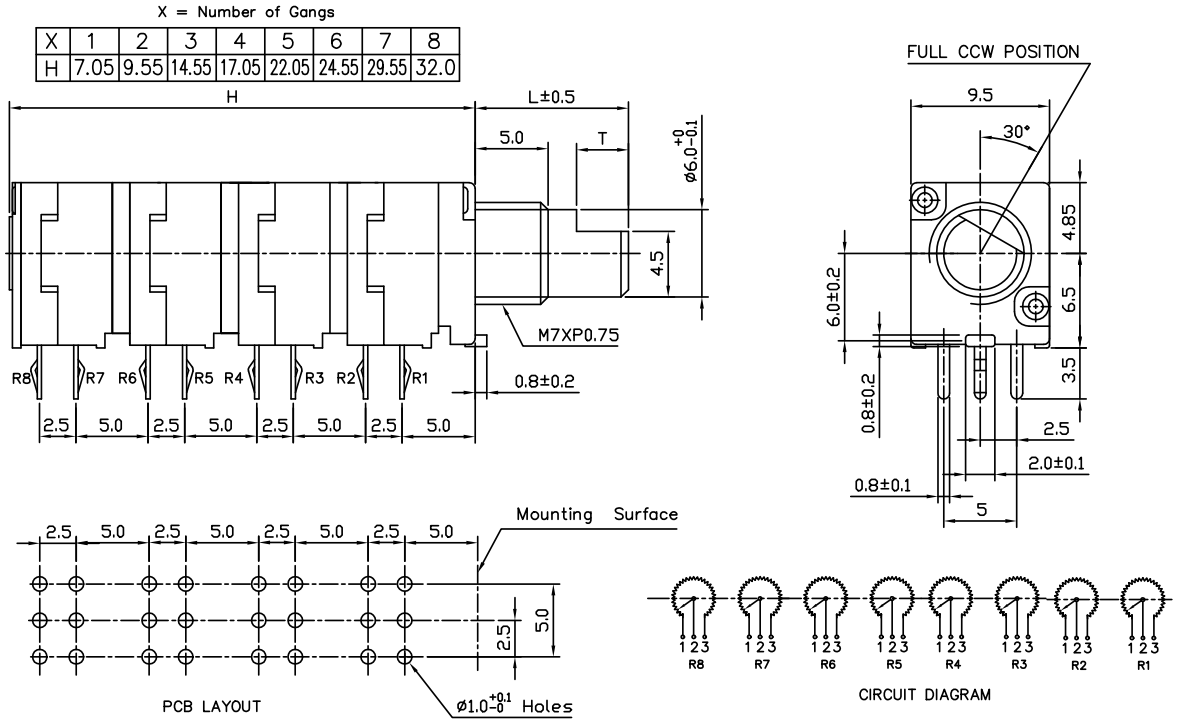


STANDARD RESISTANCE VALUES, OHMS

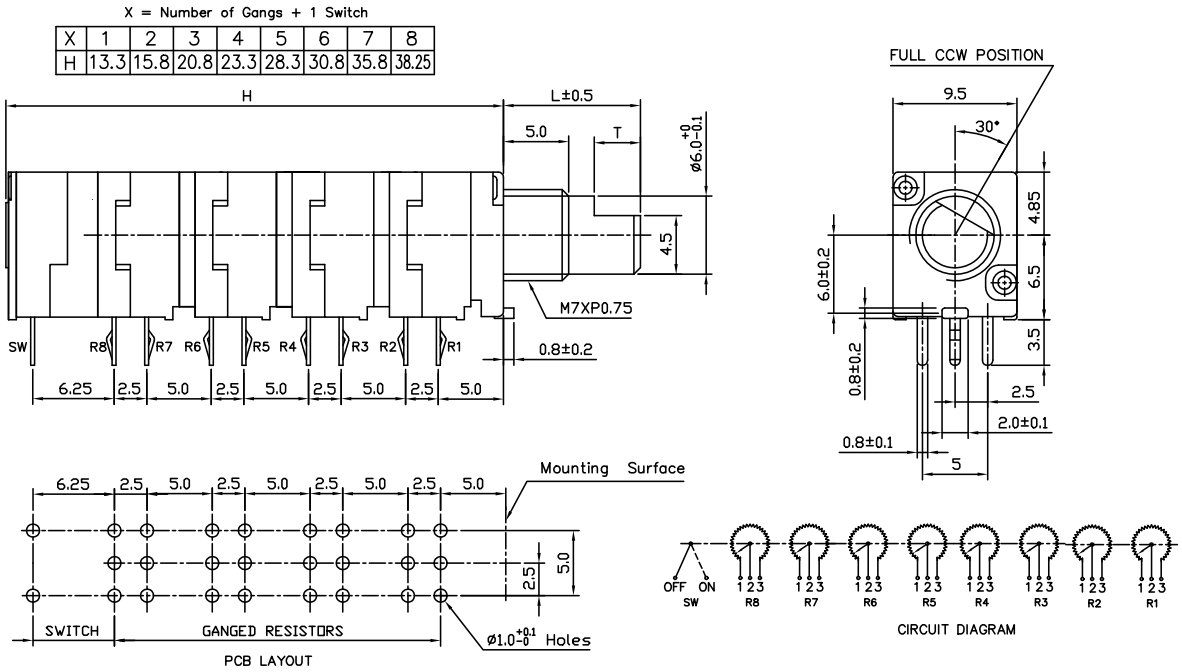
1K	2K	5K	10K	20K	50K	100K	200K	500K

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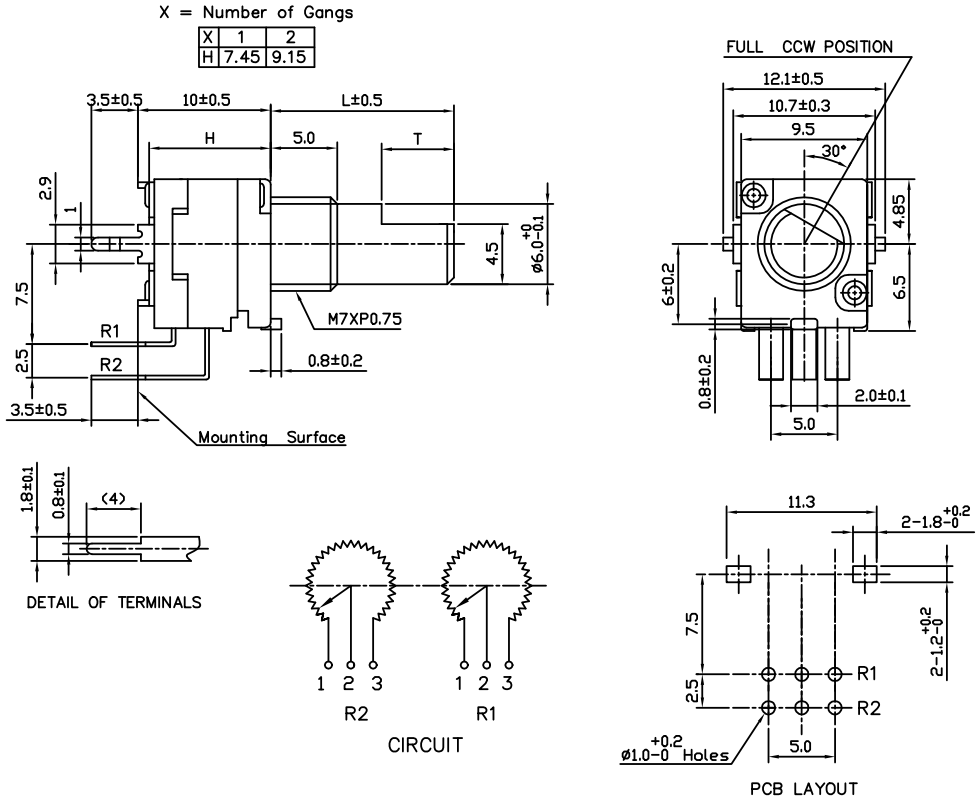
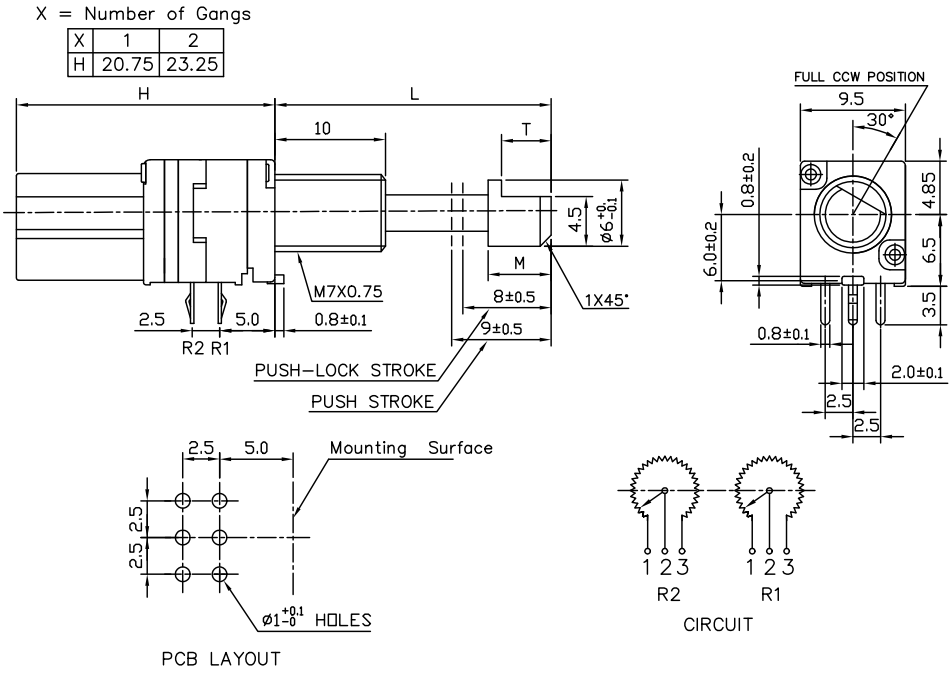
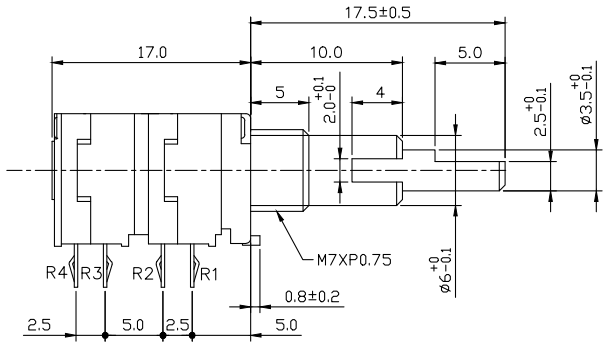
Model P09x5N (Top Adjust, PCB pins, up to 2 gangs)

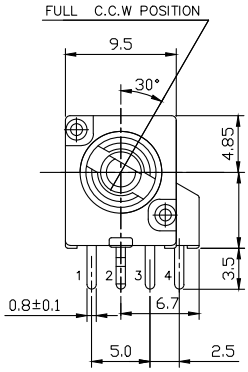


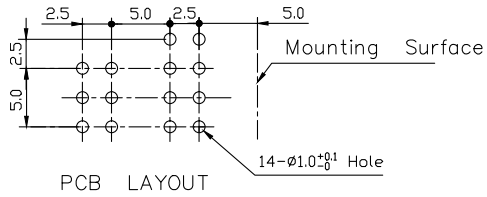
Model P09xP (Side Adjust, PCB pins, with Push-Lock, up to 2 gangs)



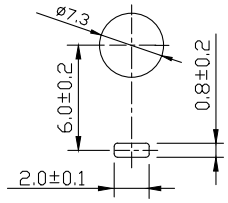
Model P09xC and P09xT (PCB pins with Concentric Shaft and Center Tap Options)
This Diagram shows both options
Please consult factory for details



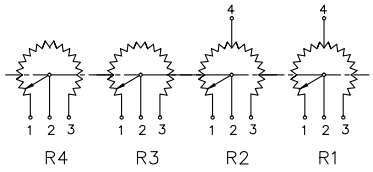




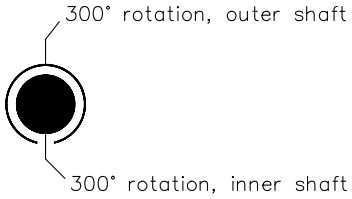
PCB LAYOUT



PANEL LAYOUT



CIRCUIT



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TT Electronics:

P092N-QC20AR100K P092N-QC20BR100K P091P-EA25BR100K P092N-QC20AR20K P092N-QD15AR10K P091S-EC20BR50K P092N-QC20BR20K P091P-FA25BR100K P092N-QC20AR10K P091P-QA25BR100K P092N-FC20AR20K P091N-FC25BR5K P091N-QC25BR50K P091P-FC25BR10K P091S-FC20BR10K P091S-QC15BR50K P0915N-QC20BR5K P092N-QC15AR20K P0915N-FC20BR10K P0915N-FC20BR5K P0915N-EC15BR2K P0915N-EC15BR100K P0915N-EC15BR10K 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 P092S-QC25AR10K P0915NFC15-AR500K P0915NFC15-BR25K P0915N-FC15AR50K P0915N-FC15BR10K P0925N-FC15CR500K P0915N-QC15BR100k P091N-FC25BR10K P091S-FC15BR10K P0915N-QC15AR10K P0915N-EC15BR50K P092N-FC25BR10K P092S-FC15AR10K P092N-QC15AR5K P091N-FC25BR1K P092N-FA15CR50K P092P-FC25AR100K P092N-FC25CR100K P0925N-FC15BR20K P091N-FC25AR500K P091N-FC25AR10K P091N-FC25A500K P092N-FC15AR50K P0915N-QC20BR50K P092N-QC15BR10K P092N-FC25AR20K P091N-QC15BR100K P092N-QC15BR100K P091N-FA15BR10K P092N-FC25AR100K P092N-FC15BR10K P091P-FC25CR2K P0915N-QC15AR100K P0925N-FC20AR100K P091N-FC15AR10K P092N-FC15AR100K P091N-FC25BR100K P092P-FC20AR100K P091N-FC20BR5K P092N-FC25BR100K P092N-FC15AR500K P0915N-QC15AR500K P091N-QC20BR50K P092N-FC15CR20K P094N-FC15AR50K P091N-FA20BR10K P0915N-QC15BR5K P092N-FC15BR20K P091S-FC20BR5K P092N-FA20CR50K P0925N-FA15AR100K P0925N-FC15AR5K P0915N-QC15AR50K P091N-QC15BR10K P092S-QC15BR50K P0925N-FA15AR200K P091N-FC25CR10K P094N-QD15AR20K P0915N-QC15BR50K P092N-FC25AR10K P092N-FC25BR20K P091P-FC25CR5K