

Model P170

17mm Rotary Potentiometer

Metal Shaft / Bushing

Conductive Plastic Element

100,000 Cycle Life

Switch Option

RoHS Compliant



MODEL STYLES

Side Adjust, Solder Lugs	P170N
Side Adjust, Solder Lugs with Switch	P170S
Side Adjust, PCB pins	P170N2
Side Adjust, PCB pins, with Switch	P170S2
Top Adjust, PCB pins	P170NP1
Top Adjust, PCB pins, with Switch	P170SP1
Rear Adjust, PCB pins	P170NPD
Rear Adjust, PCB pins, with Switch	P170SPD

ELECTRICAL¹

Resistance Range, Ohms	100-1M (for "B" taper) 5K-1M (for other tapers)
Standard Resistance Tolerance	± 20%
Residual Resistance	10 ohms max.
Input Voltage, maximum	200 Vac max.
Power rating, Watts	0.1W- B taper, 0.05W- others
Dielectric Strength	500Vac, 1 minute
Insulation Resistance, Minimum	50M ohms at 500Vdc
Sliding Noise	100mV max.
Actual Electrical Travel, Nominal	240°
Switch Contact Resistance	50 m ohms max.
Switch Power Rated	1.0A at 12Vdc

MECHANICAL

Total Mechanical Travel	260°± 10°
Static Stop Strength	40 oz-in
Rotational Torque	0.5 to 1.25 oz-in
Switch Rotational Angle	30°±10°

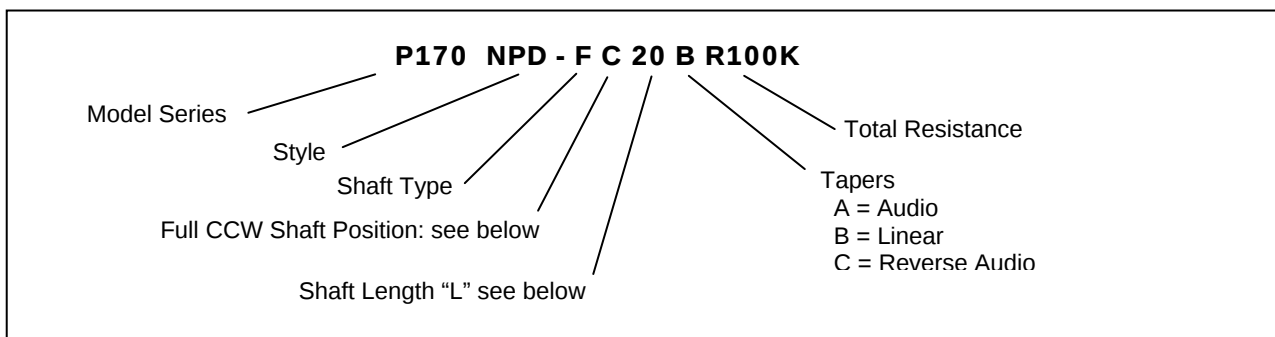
¹ Specifications subject to change without notice.

Model P170

ENVIRONMENTAL

Operating Temperature Range	-20°C to +70°C
Rotational Life (Potentiometer)	100,000 cycles
Rotational Life (Switch)	15,000 cycles

ORDERING INFORMATION²



Shaft Types

E-TYPE

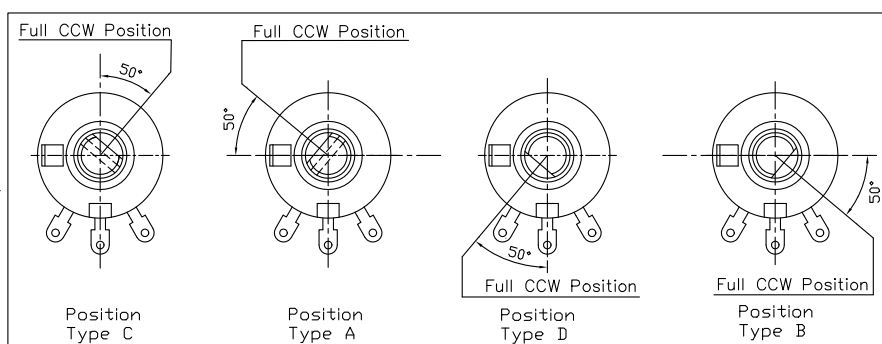
F-TYPE

Q-TYPE

L	10	15	20	25	30	35	40	T	4	4	3.5	7	12	12	14	14	14	L	10	12	13	15	20	25	30	35	T	3	4	5	6	10	12	12	12
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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

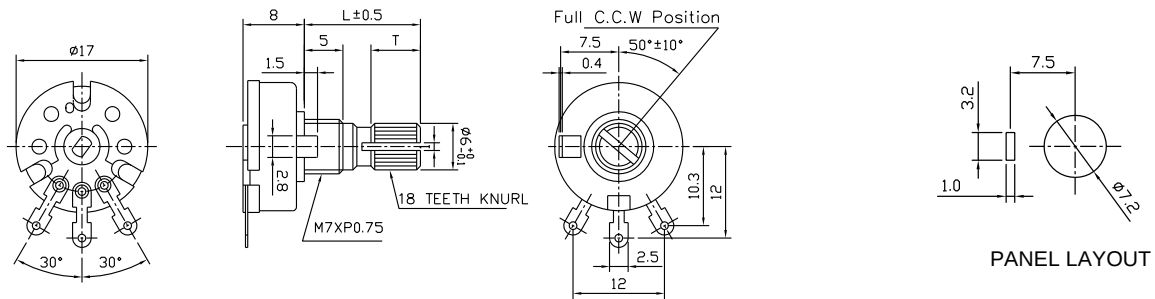
100 200 500 1K 2K 5K 10K 20K 50K 100K 200K 500K 1MEG

² Contact our customer service for custom designs and features.

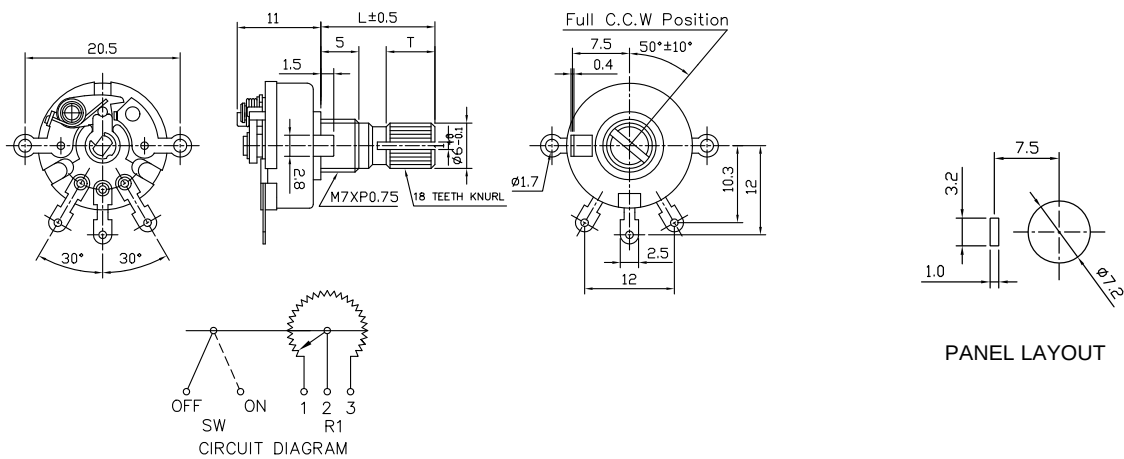
Model P170

OUTLINE DRAWING

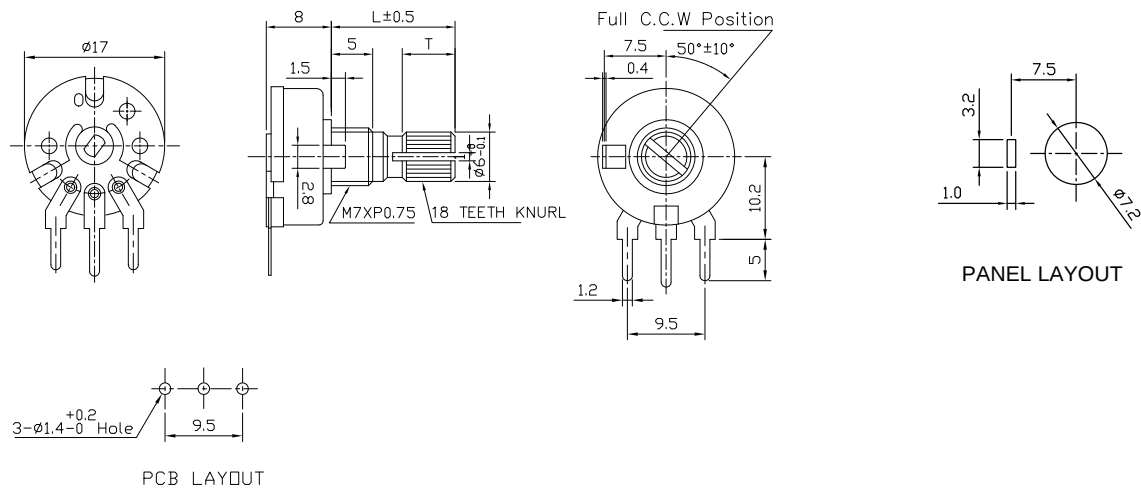
MODEL P170N (Side Adjust, Solder Lugs)



MODEL P170S (Side Adjust, Solder Lugs with Switch)

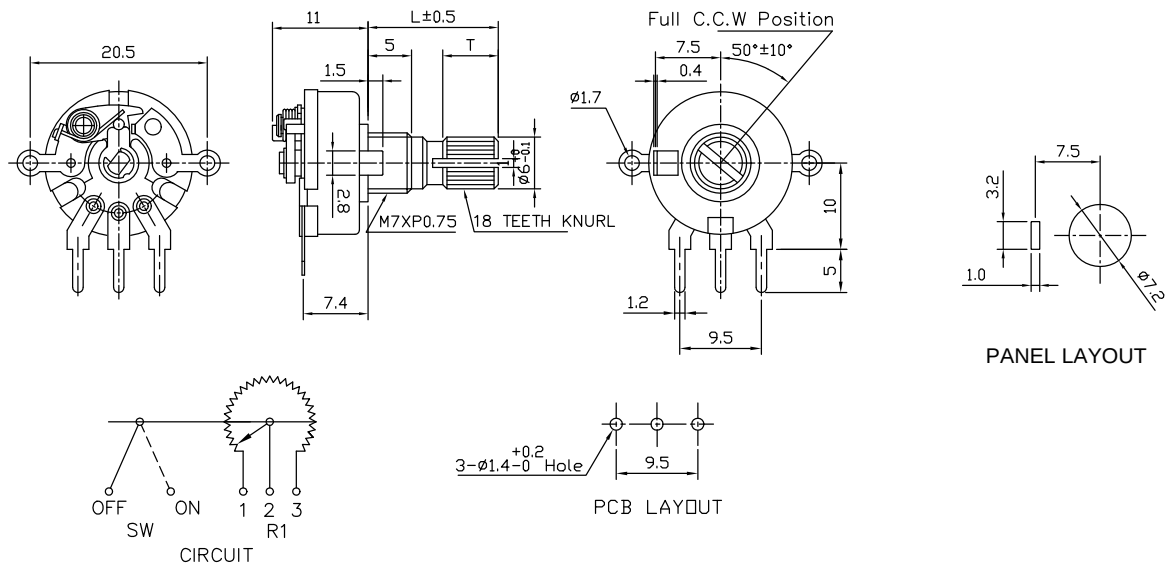


MODEL P170N2 (Side Adjust, PCB Pins)

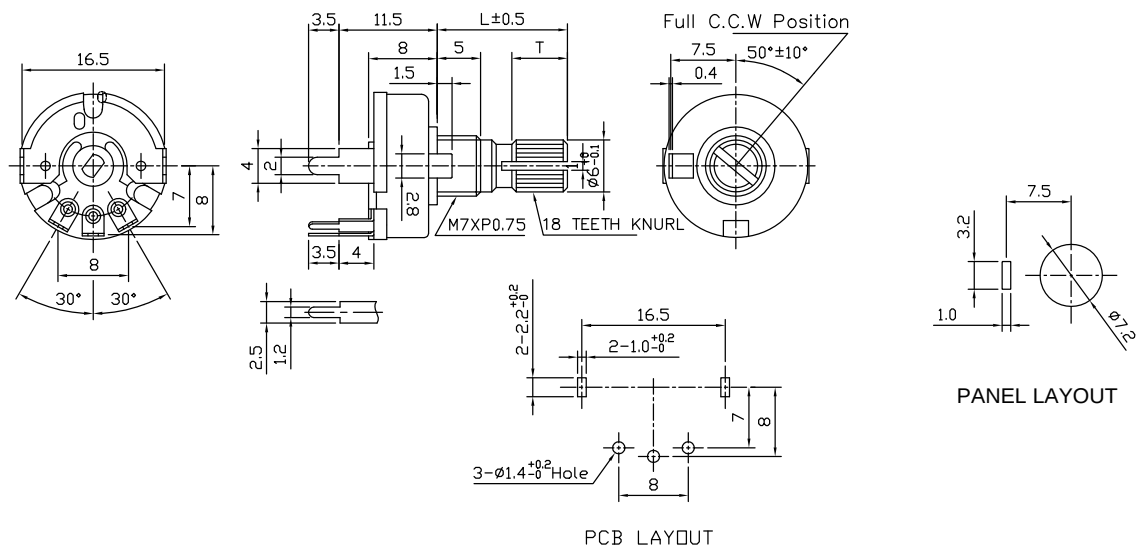


Model P170

MODEL P170S2 (Side Adjust, PCB Pins with Switch)

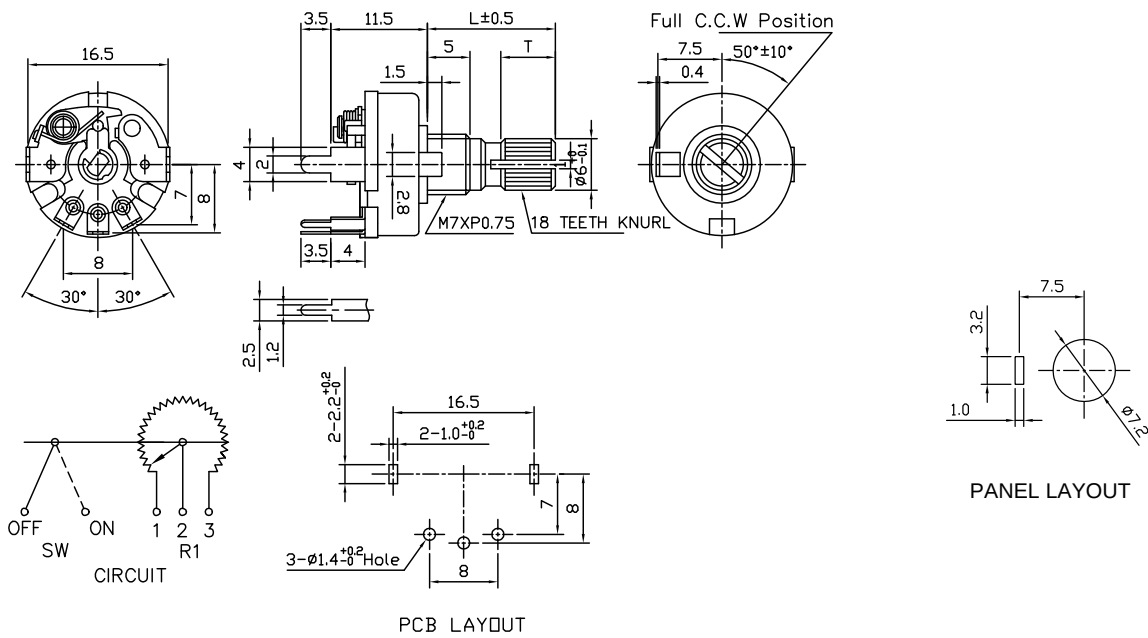


MODEL P170NP1 (Top Adjust, PCB Pins)

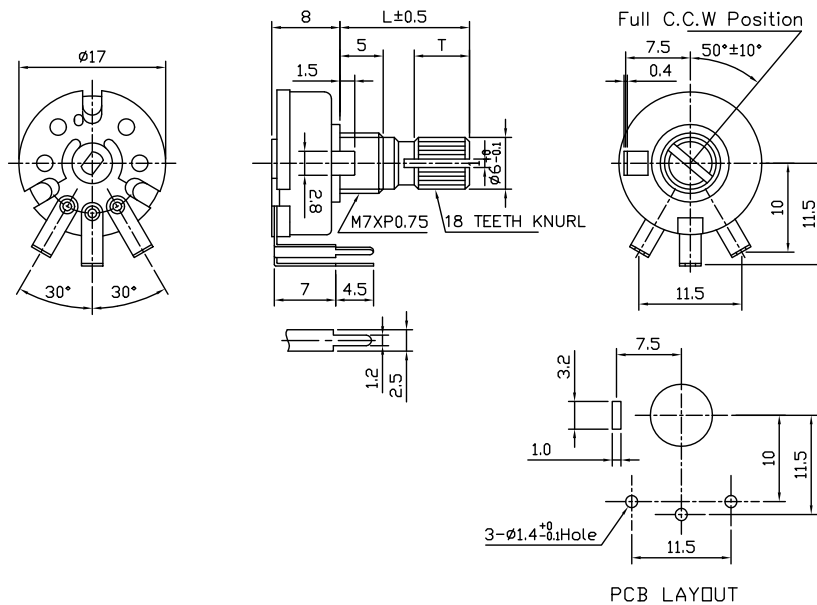


Model P170

MODEL P170SP1 (Top Adjust, PCB Pins with Switch)

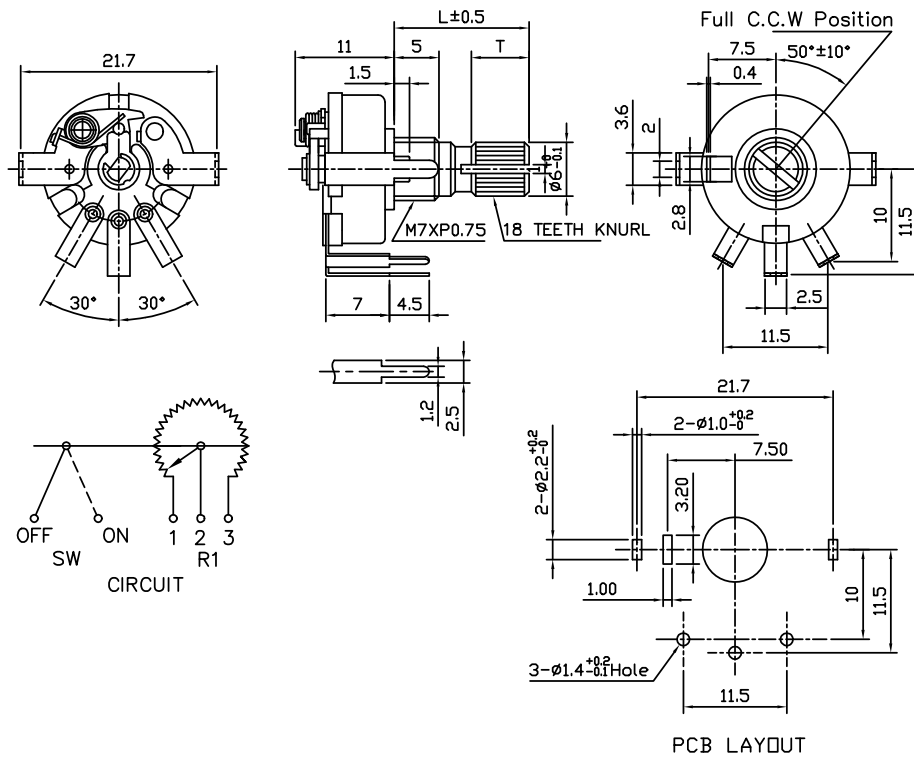


MODEL P170NPD (Rear Adjust, PCB Pins)

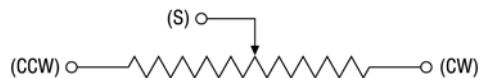


Model P170

MODEL P170SPD (Rear Adjust, PCB Pins with Switch)



CIRCUIT DIAGRAM



Mouser Electronics

Authorized Distributor

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TT Electronics:

[P170S2-QC15BR1K](#) [P170N2-QC10BR500K](#) [P170N-QC12BR50K](#) [P170N-QC12BR10K](#) [P170NPD-FB20BR100K](#)
[P170N-QC12BR5K](#) [P170N2-QC12BR5K](#) [P170N-QC20BR500](#) [P170N-QC12BR500](#) [P170N-QC12BR500K](#) [P170N-QC15BR500](#) [P170S-EA10BR500K](#) [P170S2-FC20BR100K](#) [P170S2-EC20BR100K](#) [P170S-QC15BR1MEG](#) [P170S-FC15BR100K](#) [P170NP1-QC15BR50K](#) [P170N2-QC25BR1K](#) [P170S-FC20BR10K](#) [P170SPD-QC20BR200K](#) [P170S2-E15BR100](#) [P170NPD-FC10BR10K](#) [P170NP1-QC15BR10K](#) [P170NP1-QC20BR10K](#) [P170NP1-QC15BR500K](#)
[P170SP1-QC15BR10K](#) [P170NP1-QC12BR5K](#) [P170SP1-QC20BR1K](#) [P170SP1-FC15AR10K](#) [P170SPD-QC15BR10K](#) [P170NP1-FD15AR50K](#) [P170NP1-QC15BR20K](#) [P170S-EC20AR100K](#) [P170NP1-FD15BR100K](#) [P170N-EB15BR1K](#)
[P170NP1-FD15BR10K](#) [P170NPD-QC15BR500K](#) [P170NPD-FC12BR10K](#) [P170NP1-QC12BR50K](#) [P170NPD-QC15BR50K](#) [P170N2-FC15B20K](#) [P170N2-QC12BR50K](#) [P170S-Q20AR100K](#) [P170NP1-FD15BR500K](#) [P170N-FA10AR1K](#) [P170N-EB15BR10K](#) [P170NP1-QC15BR1MEG](#) [P170N2-QB20BR100K](#) [P170N2-EC15BR1K](#) [P170N2-QC20BR100K](#) [P170NP1-QC15BR100K](#) [P170NP1-QC15BR200K](#) [P170NPD-FC15AR10K](#) [P170SPD-QC20B200K](#) [P170SP1-FC15BR10K](#) [P170NPD-FC11AR10K](#) [P170NPD-QC15BR5K](#) [P170NPD-FC10AR10K](#) [P170S-EC15BR100K](#) [P170NP1-FD15AR100K](#) [P170NPD-FC11BR10K](#) [P170NPD-FC12AR10K](#) [P170SP1-EA15BR100K](#) [P170NP1-FD15BR50K](#) [P170SP1-QC10AR10K](#) [P170NP1-EC40AR220K](#) [P170SPD-QA13BR100K](#) [P170NP1-FD15AR250K](#) [P170SPD-C15BR10K](#) [P170SPD-FC15BR10K](#) [P170NP1-FD15AR10K](#) [P170S-QC12AR100K](#) [P170NP1-QC15BR5K](#) [P170NPD-FC15BR10K](#) [P170SP1-FC15BR500K](#) [P170SP1-FC15BR150K](#) [P170NPD-FD25BR10K](#) [P170N2QC13BR10K](#) [P170NP1-FC15BR5K](#) [P170SP1-FC15BR5K](#)