

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°

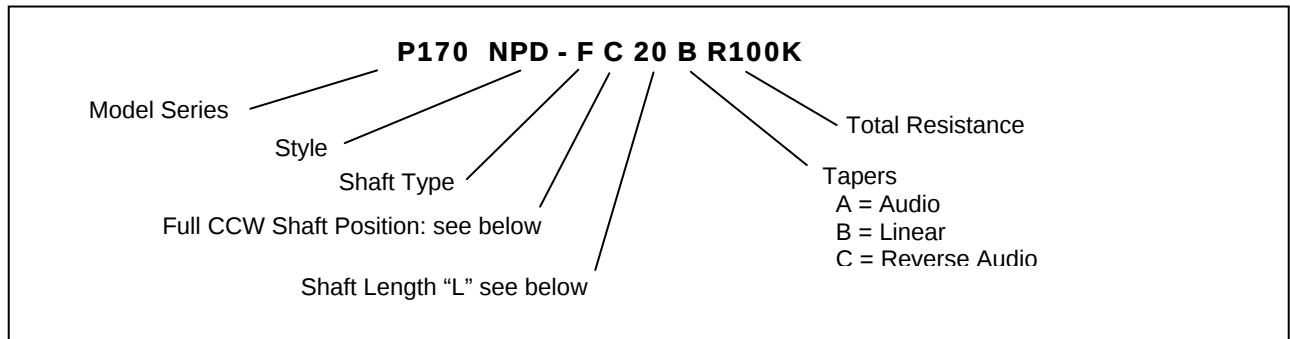
¹ Specifications subject to change without notice.

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

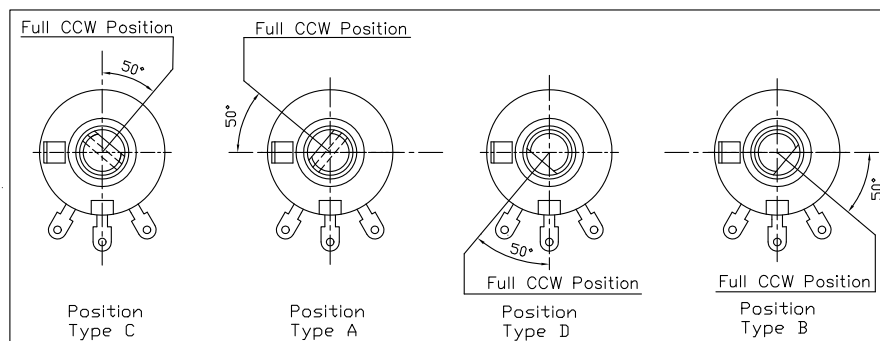
F-TYPE

Q-TYPE

L								10	11	12	15	20	25	30	35	40	L								10	12	13	15	20	25	30	35	
L								10	15	20	25	30	35	40	T	4	4	3.5	7	12	12	14	14	14	T	3	4	5	6	10	12	12	12

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

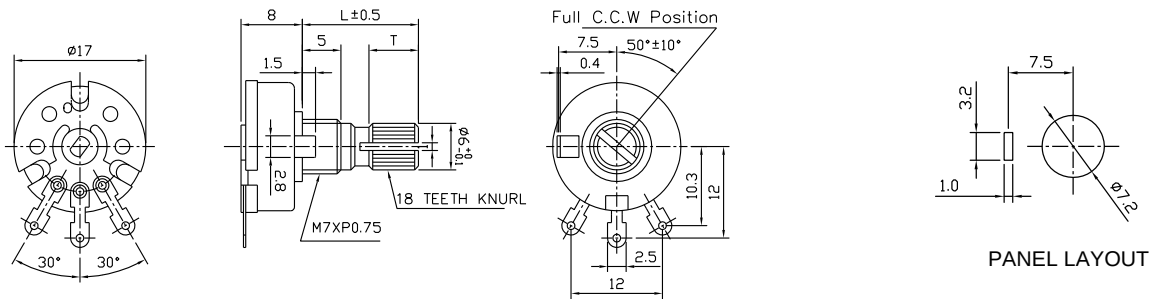
100	200	500	1K	2K	5K	10K	20K	50K	100K	200K	500K	1MEG
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² Contact our customer service for custom designs and features.

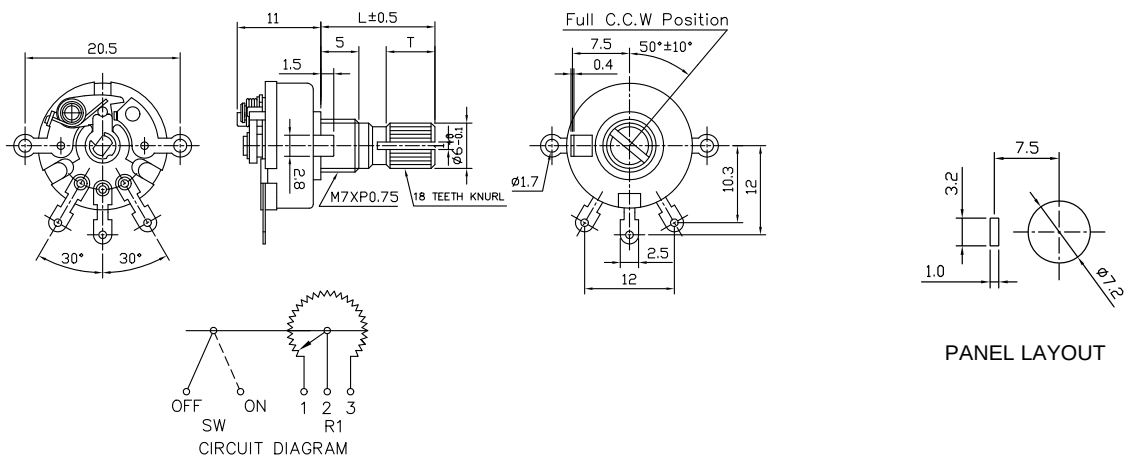
Model P170

OUTLINE DRAWING

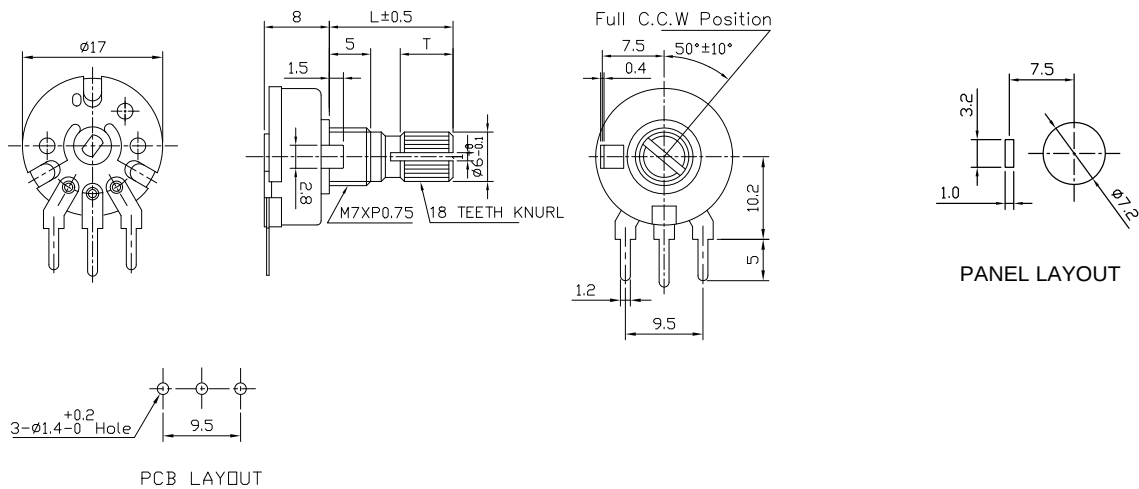
MODEL P170N (Side Adjust, Solder Lugs)



MODEL P170S (Side Adjust, Solder Lugs with Switch)

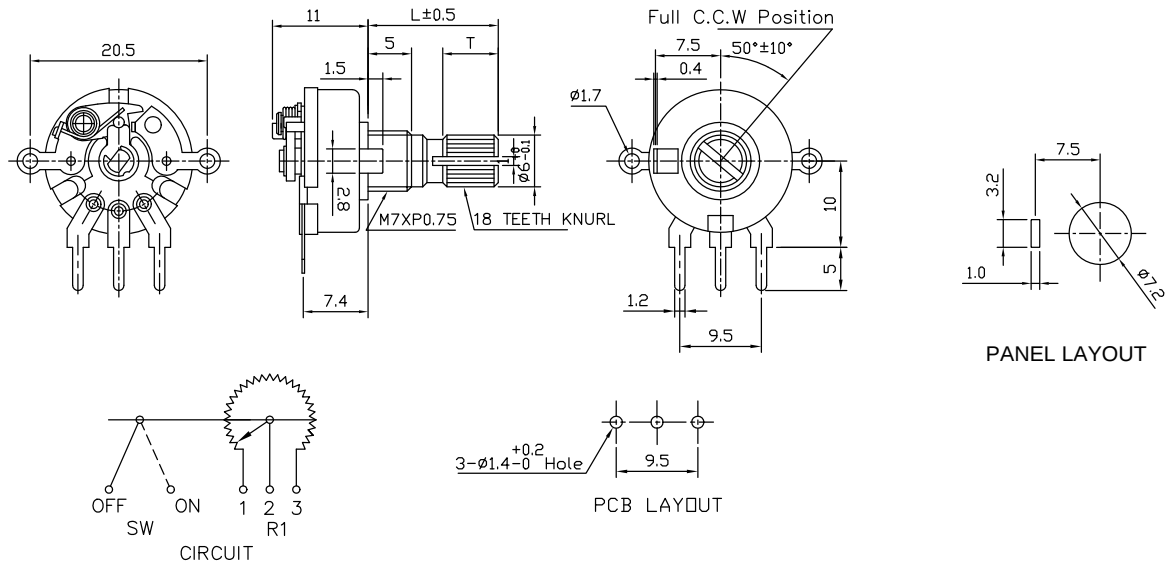


MODEL P170N2 (Side Adjust, PCB Pins)

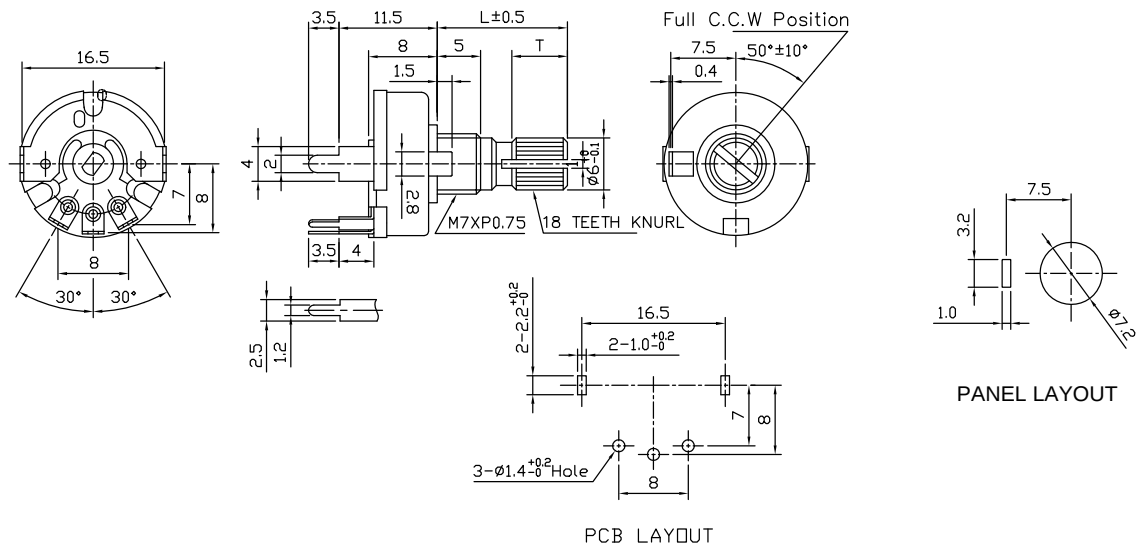


Model P170

MODEL P170S2 (Side Adjust, PCB Pins with Switch)



MODEL P170NP1 (Top Adjust, PCB Pins)



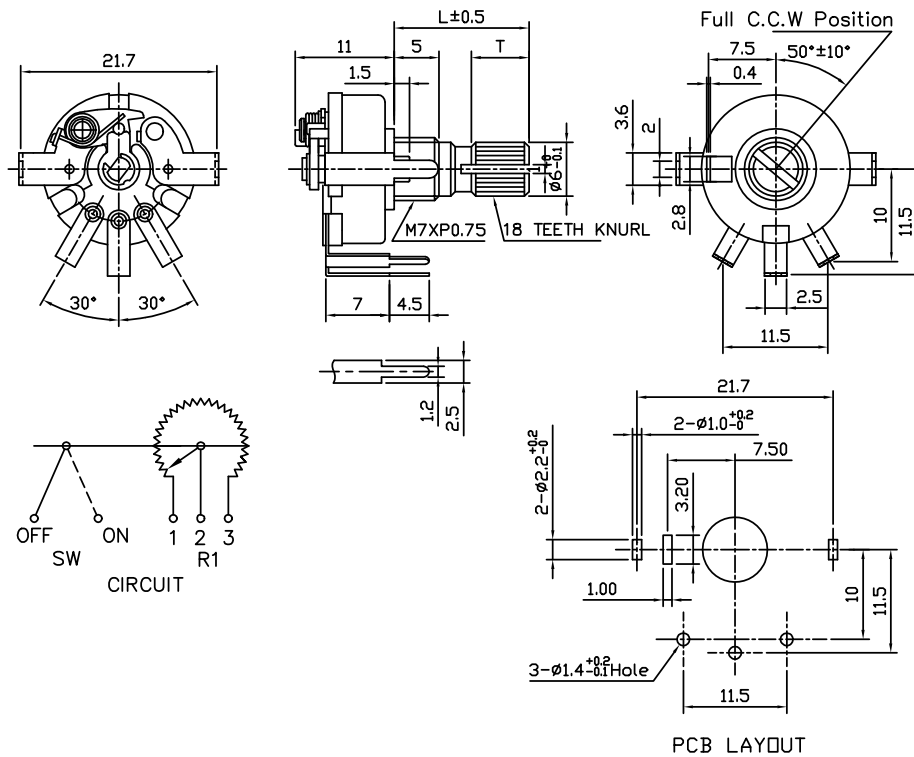
MODEL P170SP1 (Top Adjust, PCB Pins with Switch)



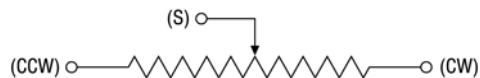
Technical drawing of the PCB layout for the 100W 100V 1000V 1000Hz MOSFET module. The drawing includes four views: a top view showing a circular base with a diameter of 17mm and three mounting tabs at 30-degree angles; a side view showing the module's profile with dimensions 8mm, 5mm, 1.5mm, 8mm, 7mm, 4.5mm, and a total length of $L \pm 0.5$ mm. It also shows an M7xP0.75 thread and an 18-teeth knurl. A detail view shows a 1.2mm wide, 2.5mm high feature. A front view shows the circular base with a 7.5mm diameter, 0.4mm thickness, and a $50^\circ \pm 10^\circ$ angle. A PCB layout view shows the module's footprint with dimensions 11.5mm, 10mm, 11.5mm, 7.5mm, 3.2mm, 1.0mm, and three mounting holes of 1.4mm diameter.

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](#)