P162 Series



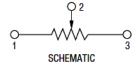
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Features:

- Resistance range $1 \text{ k}\Omega$ to $1 \text{ M}\Omega$
- Temperature range -10°C to +70°C
- Rotational cycles of 15,000 minimum
- Switch option
- Vertical only mount versions
- RoHS compliant

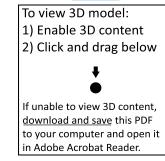
Description:

17mm rotary single gang potentiometer with rotary switch. Options include metal shaft; audio and linear tapers; metal bushing; knurled or plain shaft types.



Single Gang

3D Model



Applications:

- Electric guitars
- Amplifiers
- Mixers
- Drum machines
- Synthesizers

Electrical Characteristics

T_A = 25°C unless otherwise noted

Resistance Range	1 kΩ to 1 MΩ
Standard Resistance Tolerance	500 Ω <r<1 0%<="" mω="" td="" ±2=""></r<1>
	R≤500 Ω or R≥1 MΩ ± 30%
Residual Resistance	Term. 1~2: Less than 20 Ω
	Term: 2~3: Less than 20 Ω
Resistance Taper	A, B, C, D
Maximum Operating Voltage	Linear Taper B: 200 Vac
	Other Tapers: 150 Vac
Rated Power	Linear Taper B: 0.2 W
	Audio: 0.1 W
Dielectric Strength	1 minute at 500 Vac
Rotational Noise	Less than 100 mV
Insulation Resistance	More than 100 MΩ at 500 Vdc
Gang Error (Dual Unit)	N/A

General Note

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Switch Characteristics

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$T_A = 25^{\circ}C$ unless otherwise noted

Switch Circuit	SPST
Contact Resistance	Less than 50 mΩ
Rated Power	Single Unit: 1.0 A at 12V ac/dc
Rotational Angle	35 ° ± 10 °
Rotational Strength	70~250 gf.cm.
Switch Life	15,000 cycles

Mechanical Characteristics

$T_A = 25^{\circ}C$ unless otherwise noted

Mechanical Travel	300°±5°
Rotational Torque	20 gf.cm~100 gf.cm
Rotational Stop Strength	7 kgf.cm minimum
Shaft Torque Strength	8 kgf minimum
Detent Torque	100~300 gf.cm
Nut Tightening Strength	8 kgf.cm minimum
Rotational Life	100,000 cycles minimum

Environmental Characteristics

T_A = 25°C unless otherwise noted

Operating Temperature	-10 °C to +70 °C
IP Rating	IP 40
Soldering Condition	Wave Soldering 260 °C maximum for 1-3 seconds
	Hand Soldering 300 °C maximum for 3 seconds
RoHS	Please refer to TT Electronics website
REACH	Please refer to TT Electronics website

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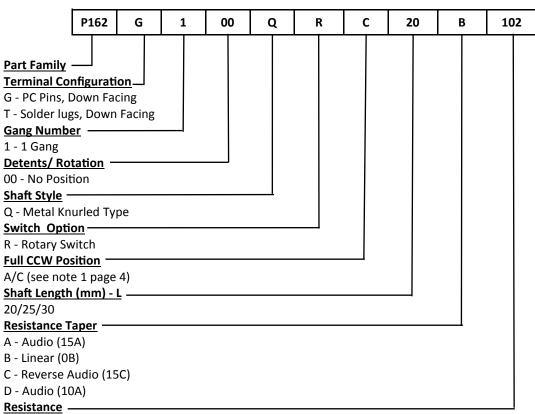
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See Resistance Table

Resistance Table		
Resistance (Ohms)	Code	
1,000	102	
2,000	202	
5,000	502	
10,000	103	
20,000	203	
50,000	503	
100,000	104	
200,000	204	
500,000	504	
1,000,000	105	

Ordering Information

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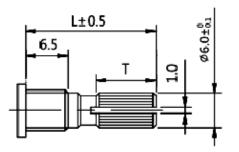


P162 Series

Outline Drawings

Shaft Style & Length

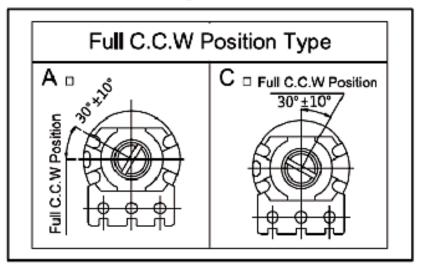
Q - Type (Switch Option)



Q Type			
L	20	25	30
	T - 10	T - 12	T - 12

Note 1: Full CCW Position

Q-type shaft



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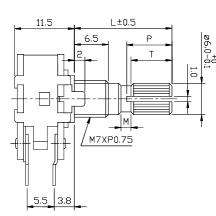


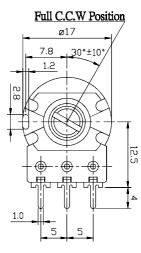


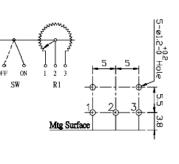
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G - PC Pins, Down Facing, Single Gang, Rotary Switch

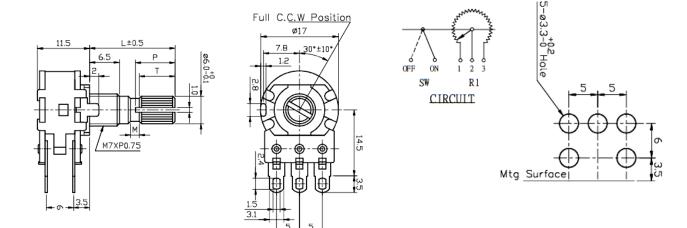








T - Solder lugs, Down Facing, Single Gang, Rotary Switch



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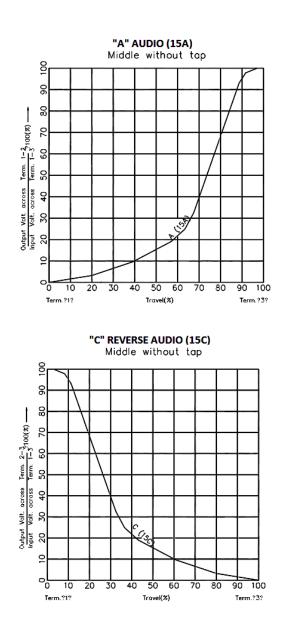
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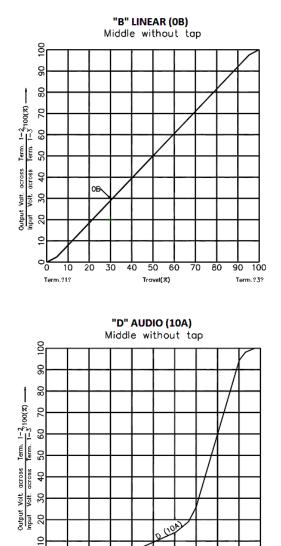


P162 Series

Standard Tapers

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10 20 30 40 50 60 70 80 90 100 Term.?1? Travel(%) Term.?3?

ō

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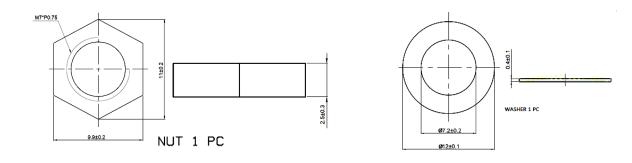
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Screw & Washer Dimensions



Packaging

Standard Packaging	Plastic Trays
Hardware	Two flat washers and mounting nut

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