P164 Series





OBSOLETE

Features:

- Resistance range 1 k Ω to 1 M Ω
- Temperature range -10°C to +70°C
- Rotational cycles of 100,000 minimum
- Center and multiple detent options
- Vertical and horizontal mount versions
- RoHS compliant

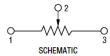


Description:

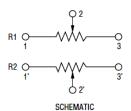
17mm rotary potentiometer. Options include single or dual gangs, metal shaft; audio and linear tapers; metal bushing; various shaft lengths; flat, knurled or plain shaft types.

Applications:

- Electric guitars
- Amplifiers/mixers/drum machines/synthesizers
- PC's/monitors
- Appliances
- Audio/car radio/TV sets



Single Gang



Dual Gang

3D Model

To view 3D model:

- 1) Enable 3D content
- 2) Click and drag below



If unable to view 3D content, download and save this PDF to your computer and open it in Adobe Acrobat Reader.

Electrical Characteristics

T_A = 25°C unless otherwise noted

Resistance Range	1 k Ω to 1 M Ω
Standard Resistance Tolerance	500 Ω <r<1 20%<="" mω="" td="" ±=""></r<1>
	R≤500 Ω or R≥1 M Ω ± 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: 0.2W
	Audio: 0.1W
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)	-40 dB~0 dB ± 3 dB

General Note

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Mechanical Characteristics

T_A = 25°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	100~300gf.cm
Nut Tightening Strength	8 kgf.cm minimum
Rotational Life	100,000 cycles minimum

Environmental Characteristics

T_A = 25°C unless otherwise noted

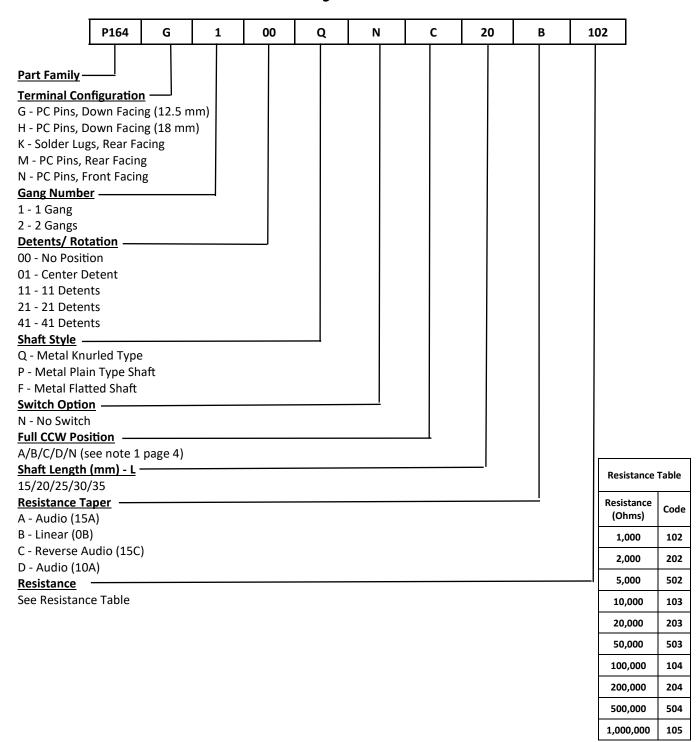
Operating Temperature	-10 °C to +70 °C
IP Rating	IP 40
Soldering Condition	Wave Soldering 260 °C maximum for 1-3 seconds
Soldering Condition	Hand Soldering 300 °C maximum for 3 seconds
RoHS	Please refer to TT Electronics website
REACH	Please refer to TT Electronics website

P164 Series





Ordering Information



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P164 Series

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Outline Drawings

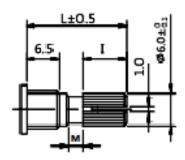
Shaft Style & Length

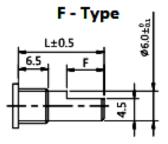
Q Type				
L	15	20	25	30
	M - 2 I - 6	M - 2 I - 10	M - 2 I - 14	M - 2 I - 19

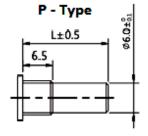
F Туре					
L	15	20	25	30	35
	F - 7	F - 12	F - 12	F - 12	F - 12

Р Туре					
L	15	20	25	30	35

Q - Type

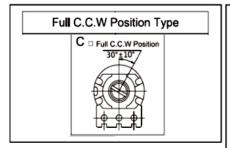




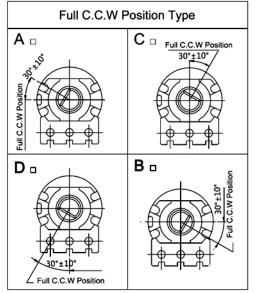


Note 1: Full CCW Position

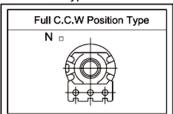
Q-type shaft



F-type shaft



P-type shaft



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P164 Series

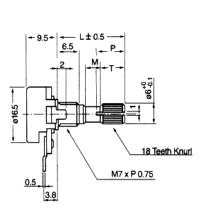


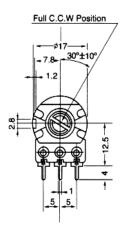


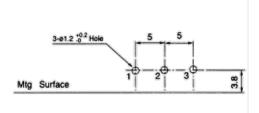
Outline Drawings

G - PC Pins, Down Facing (12.5mm), Single Gang





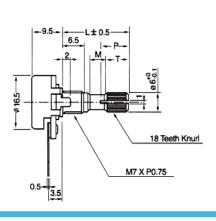


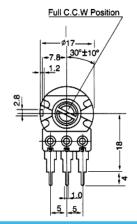


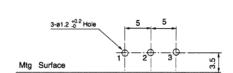




H - PC Pins, Down Facing (18mm), Single Gang









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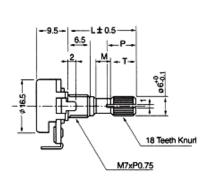
P164 Series

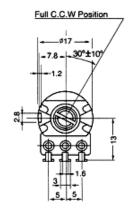
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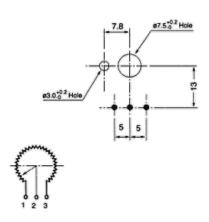




K - Solder Lugs, Rear Facing, Single Gang

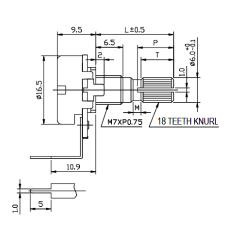


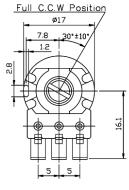


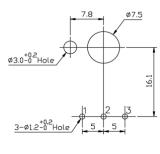




M - PC Pins, Rear Facing, Single Gang









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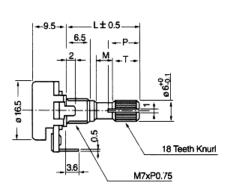
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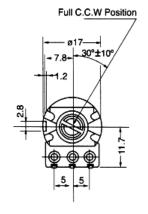
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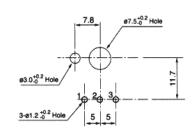




N - PC Pins, Front Facing, Single Gang



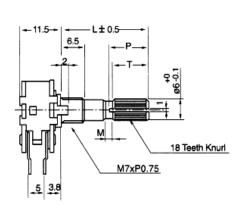


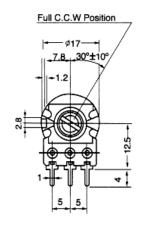


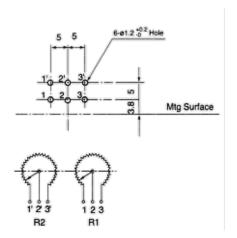




G - PC Pins, Down Facing (12.5mm), Dual Gang







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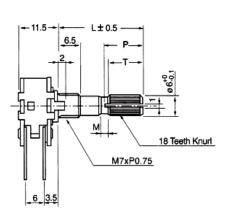
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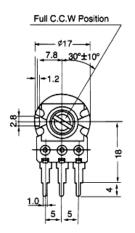
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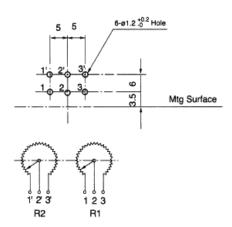




H - PC Pins, Down Facing (18mm) Dual Gang

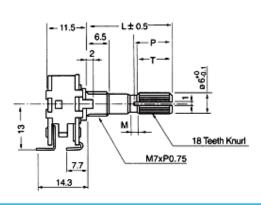


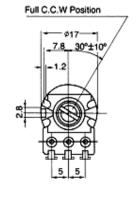


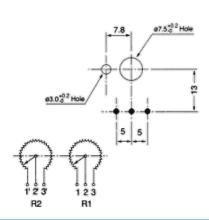




K - Solder Lugs, Rear Facing, Dual Gang







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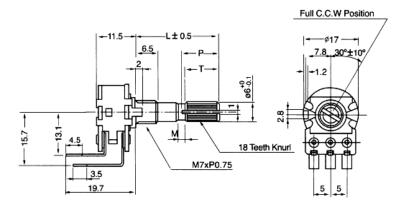
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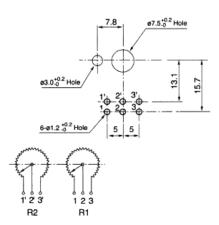
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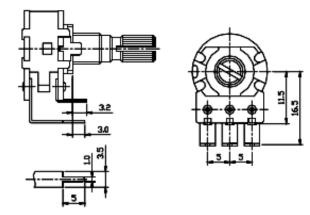


M - PC Pins, Rear Facing, Dual Gang





N - PC Pins, Front Facing, Dual



General Note

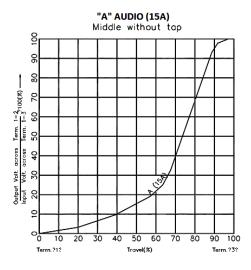
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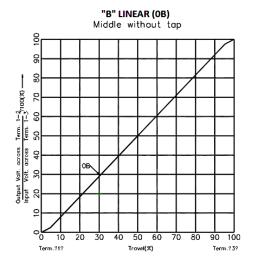
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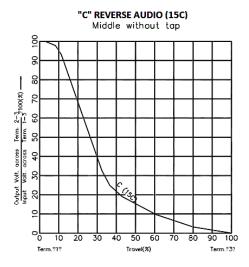
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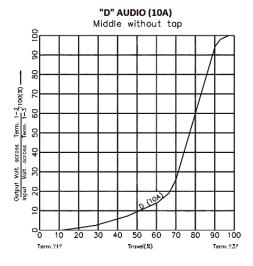


Standard Tapers







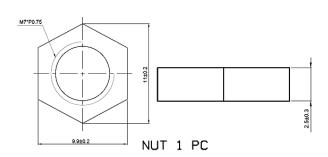


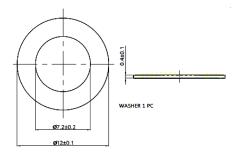
P164 Series





Screw & Washer Dimensions





Packaging

Standard Packaging	Plastic Trays
Hardware	Two flat washers and mounting nut