17 mm Rotary Potentiometer

P166 Series

TT Electronics PRO AUDIO

TT Electronics





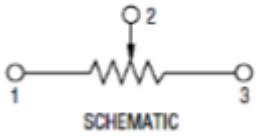
Features:

- Resistance range 1 KΩ to 1 MEGΩ
- Conductive plastic element
- 15,000 cycle life
- Metal shaft
- Plastic Bushing & Housing

RoHS compliant

Description:

17 mm rotary potentiometer with plastic housing and bushing to providing IP 50 rating. Options include knurled, flatted, slotted, or plain metal shaft types.



SCHEMATIC

Applications:

- Amplifiers/mixers/synthesizers
- Appliances
- Audio/Car Radio/TV sets
- Industrial Controls

Electrical Characteristics

T_A = 25°C unless otherwise noted

Resistance Range	1KΩ to 1MΩ
Standard Resistance Tolerance	±20%
Residual Resistance	20Ω max.
Maximum Operating Voltage	Linear Taper B: 200 VAC Other Tapers: 150 VAC
Rated Power	Linear Taper B: 0.2W Other Tapers: 0.1W
Dielectric Strength	1 minute at 500 VAC
Insulation Resistance	100MΩ min. at 500 VDC
Rotational Noise	100 mV max.

General Note
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Mechanical Characteristics

T_A = 25°C unless otherwise noted

Total Rotational Travel	300° ±10°
Rotational Torque	20 - 100 gf.cm
Rotational Stop Strength	7 kgf.cm min.
Dentent Torque	100 - 300 gf.cm
Nut Tightening Strength	8 kgf.cm min.
Rotational Life	15,000 cycles

Environmental Characteristics

T_A = 25°C unless otherwise noted

Operating Temperature	-10°C to +70°C
IP Rating	IP 50
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

Packaging Information

Standard Packaging	Plastic Trays
Hardware	Flat washer and mounting nut

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17 mm Rotary Potentiometer

P166 Series

Ordering Information

P166	V	1	0	Q	1	C	B	10K

Part Family

Terminal Configuration
V = Side Adjust, PC Pins
P = Top Adjust, Solder Lugs
H = Top Adjust, PC Pins

Gang Number
1 = 1 Gang

Detent Option
0 = No Detent
1 = Center Detent

Shaft Type
Q = Knurled Type
S = Slotted Type
F = Flatted Type
R = Plain Type

Resistance
See Resistance Table

Resistance Taper
A = Audio (15A)
B = Linear (1B)
C = Reverse Audio (15C)

Full CCW Position
A/B/C/D/N (see Note 4)

Shaft Length
See Note 1

Resistance Table										
Resistance (Ohms)	1,000	2,000	5,000	10,000	20,000	50,000	100,000	200,000	500,000	1,000,000
Code	1K	2K	5K	10K	20K	50K	100K	200K	500K	1MEG

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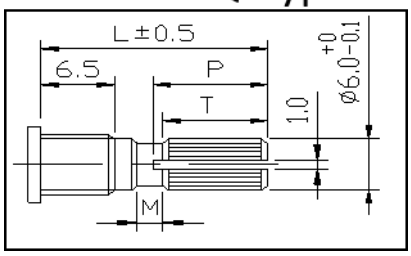
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Outline Drawings

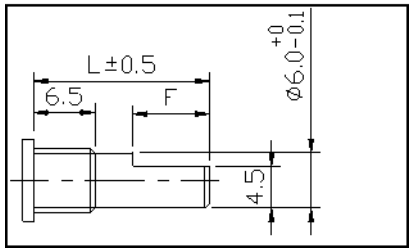
Note 1: Shaft Style & Length

Q-Type



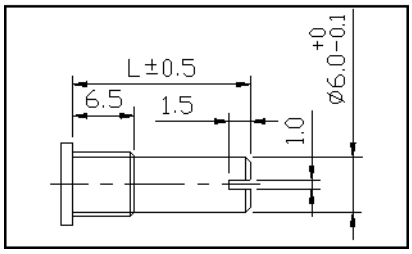
Code	1	2	3	4	5	6
L	10	15	20	25	30	35
P	2.5	7	12	14	14	14
T	2.5	6	10	12	12	12
M	1	1	2	2	4	4

F-Type



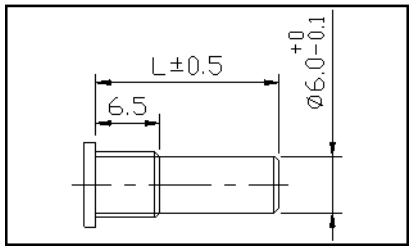
Code	1	2	3	4	5	6
L	10	15	20	25	30	35
F	2	7	12	12	12	12

S-Type



Code	1	2	3	4	5	6
L	10	15	20	25	30	35

R-Type



Code	2	3	4	5	6
L	15	20	25	30	35

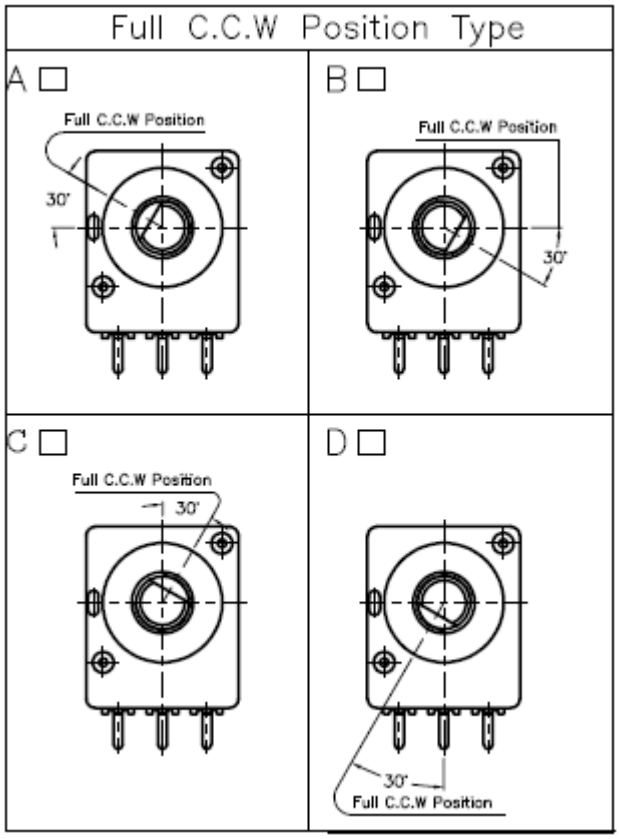
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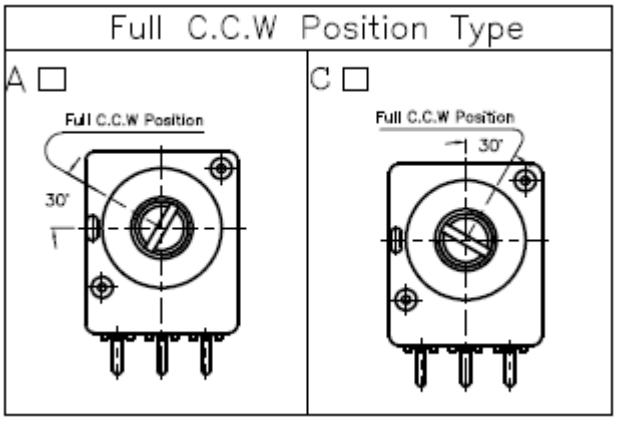
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Note 2: Full CCW Position

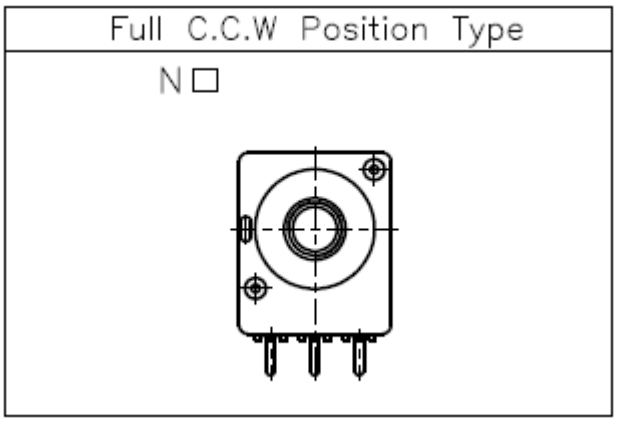
F-Type



Q/S-Type



R-Type

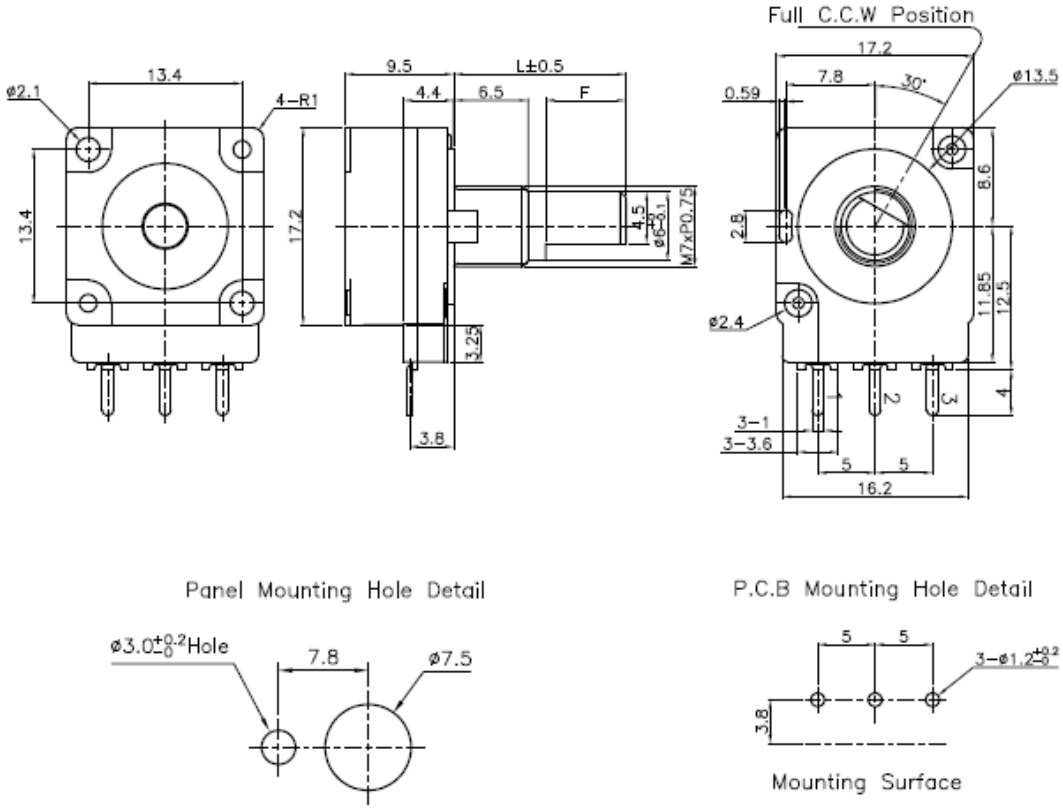


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V - Side Adjust, PC Pins

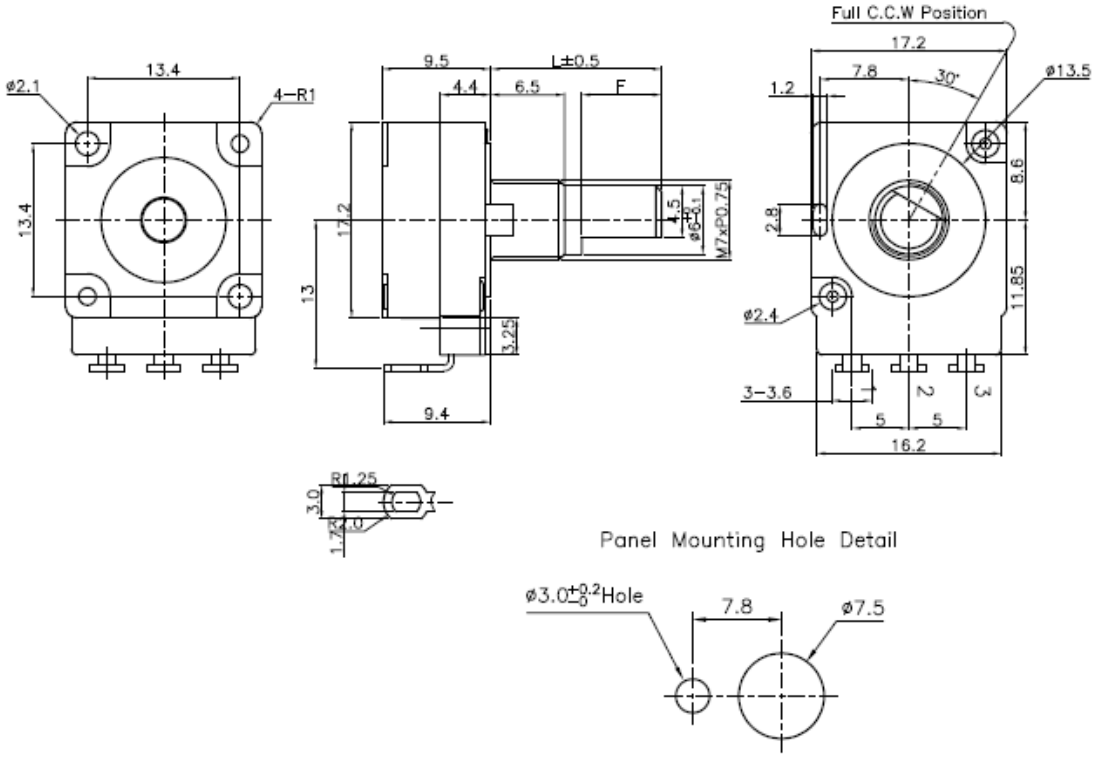


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P - Top Adjust, Solder Lugs

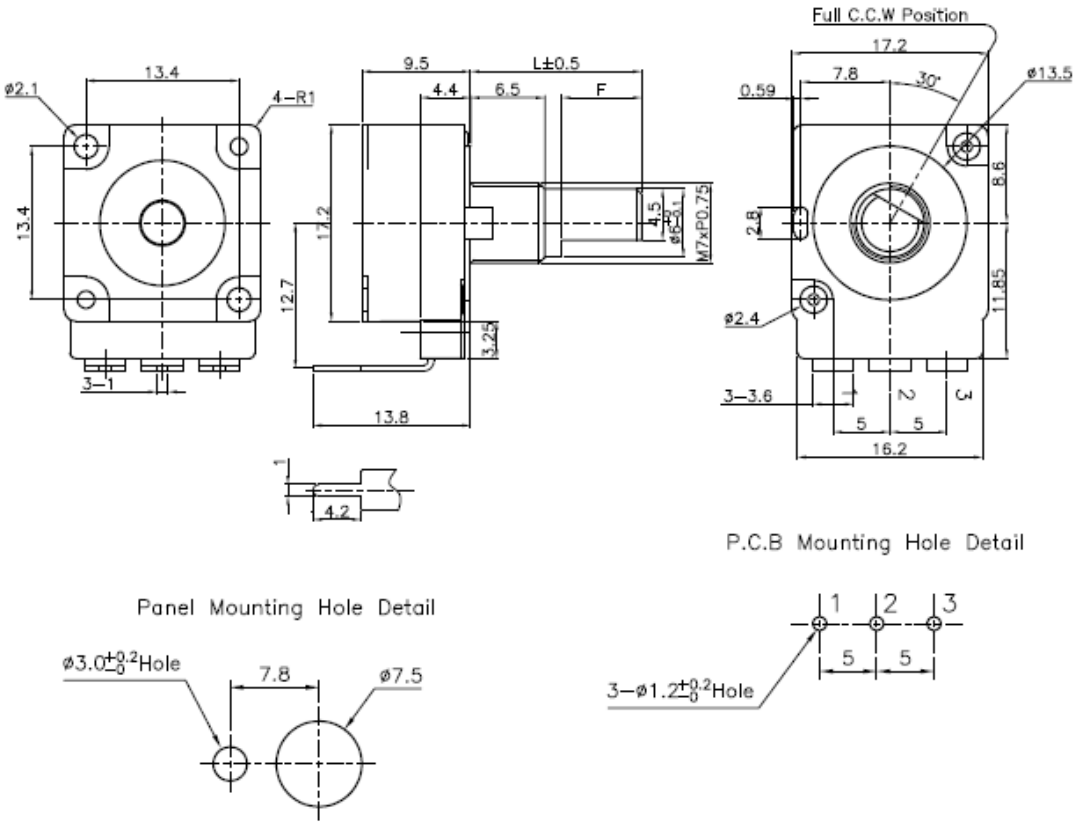


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H - Top Adjust, PC Pins

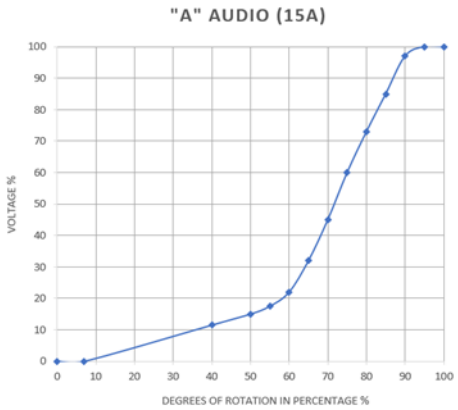


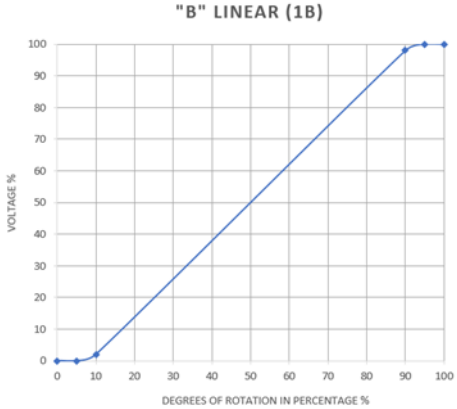
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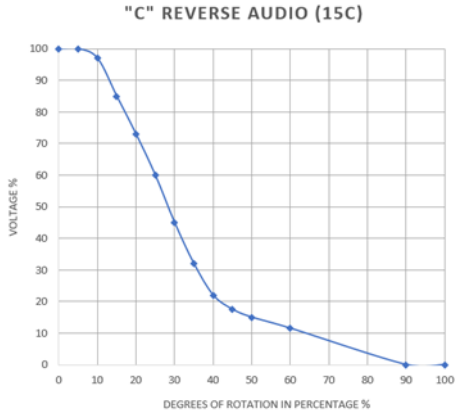
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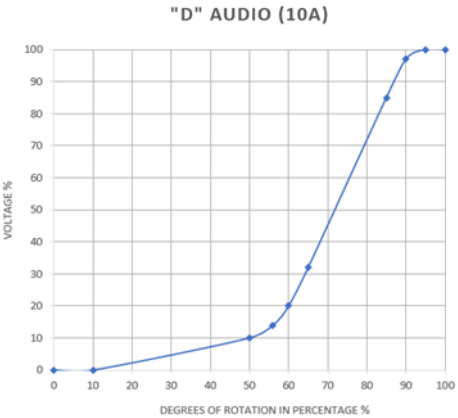
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Standard Tapers









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