Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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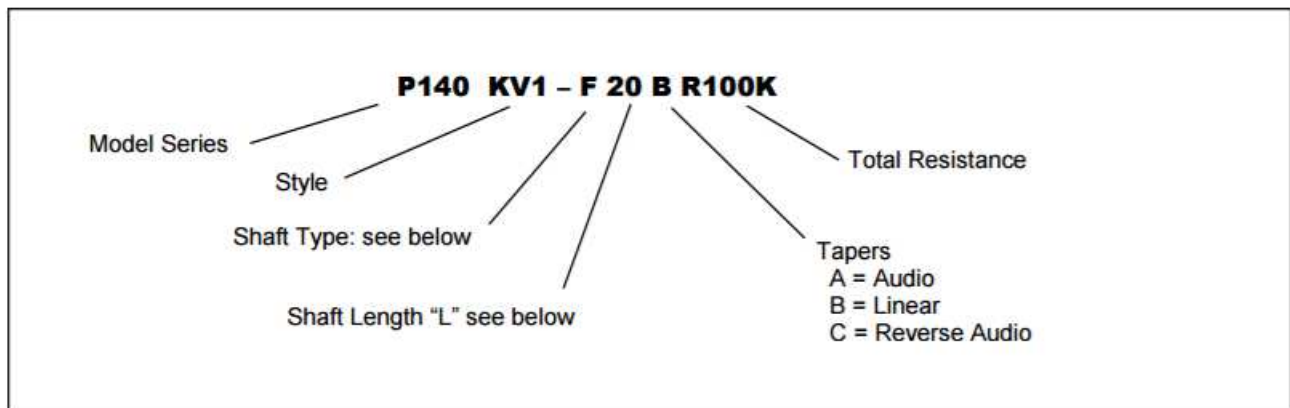
# Rotary Potentiometer

## P140 Series

**Features:**

- 14 mm
- Conductive plastic element
- Dual unit
- With/without bushing
- Insulated shaft
- RoHS compliant

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## Model Styles

| | |
|---|---|
| Side Adjust, without Bushing | **P140KV** |
| Side Adjust, with Bushing | **P140KV1** |
| Top Adjust, without Bushing | **P140KH** |
| Top Adjust, with Bushing | **P140KH1** |

**P140 KV1 – F 20 B R100K**

- Model Series
- Style
- Shaft Type: see below
- Shaft Length "L" see below
- Total Resistance
- Tapers
  - A = Audio
  - B = Linear
  - C = Reverse Audio

---

# Rotary Potentiometer

## P140 Series

## Electrical Specifications

| | |
|---|---|
| Resistance Range, Ohms | 500-2M (for "B" taper) 1K-2M (for other tapers) |
| Standard Resistance Tolerance | ± 20% |
| Residual Resistance | 20 ohms max. |
| Input Voltage, maximum | 50 Vac max. |
| Power rating, Watts | 0.05w |
| Dielectric Strength | 500Vac, I minute |
| Insulation Resistance, Minimum | 100M ohms at 250Vdc |
| Sliding Noise | 100mV max. |
| Gang Error ( Multi-ganged ) | -40dB – 0dB, ±3dB |
| Actual Electrical Travel, Nominal | 260° |

## Mechanical Specifications

| | |
|---|---|
| Total Mechanical Travel | 300°± 10° |
| Static Stop Strength | 70 oz-in |
| Rotational Torque | 0.5 to 1.25 oz-in |

## Environmental Specifications

| | |
|---|---|
| Operating Temperature Range | -20°C to +70°C |
| Rotational Life | 30,000 cycles |

# Rotary Potentiometer

## P140 Series

**TT Electronics**

## Shaft Types
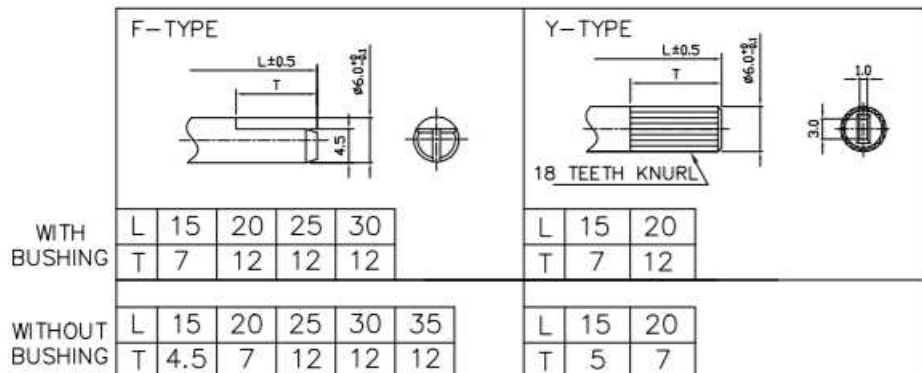


## Standard Resistance Values, Ohms

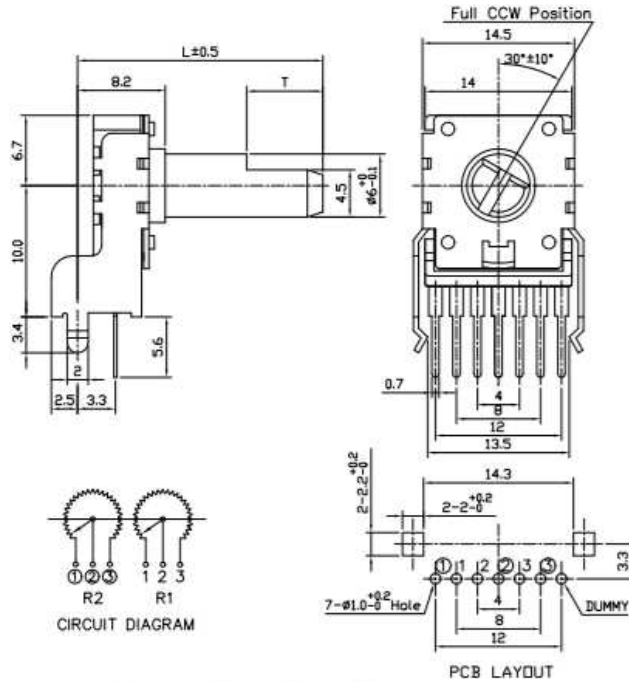| 500 | 1K | 2K | 5K | 10K | 20K | 50K | 100K | 200K | 500K | 1MEG |
|-----|----|----|----|-----|-----|-----|------|------|------|------|

# Rotary Potentiometer

## P140 Series

## Outline Drawings

### Model P140KV (Side Adjust, without Bushing)



### Model P140KV1 (Side Adjust, with Bushing)
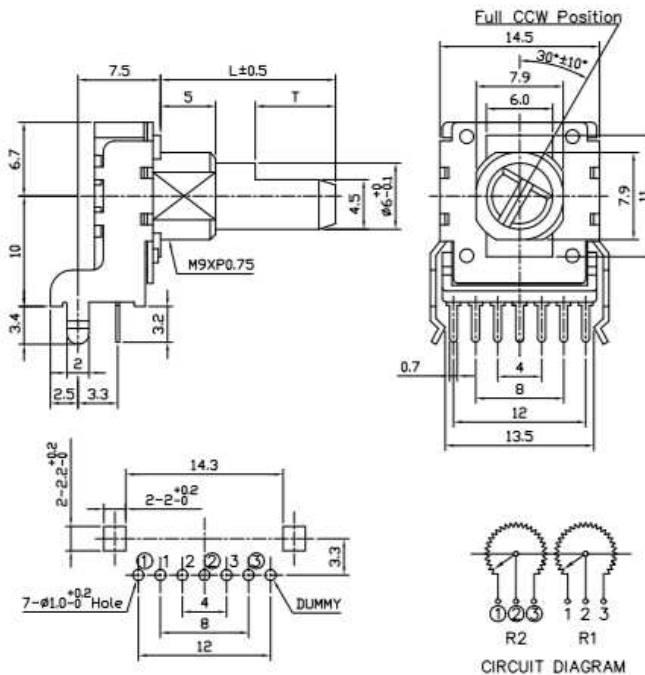
# Rotary Potentiometer

## P140 Series

## Outline Drawings

### Model P140KH (Top Adjust, without Bushing)
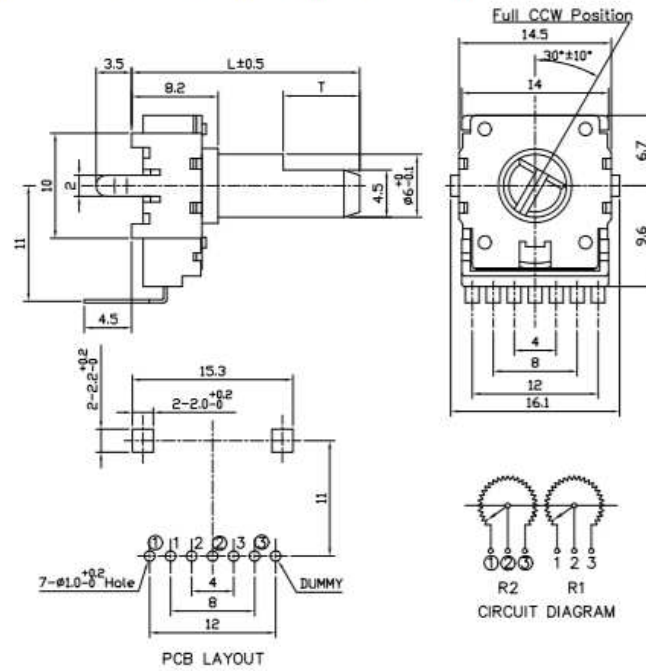


### Model P140KH1 (Top Adjust, with Bushing)
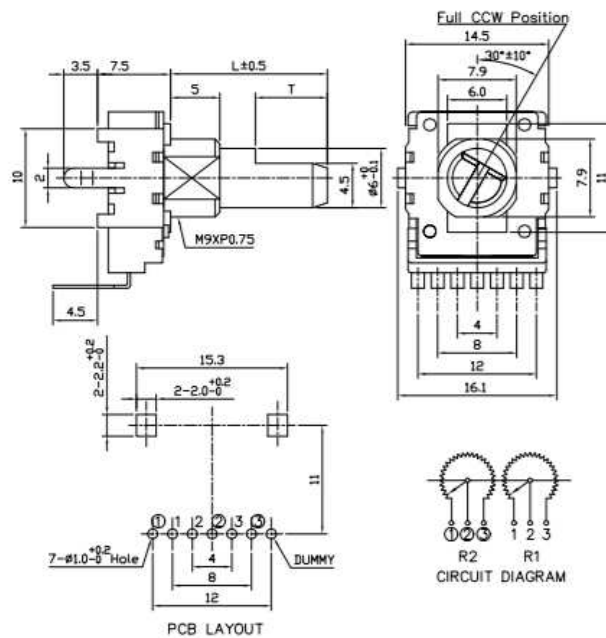
# Rotary Potentiometer

## P140 Series

## Outline Drawings

### Model P160KN2 (Side Adjust , PC Pins, Long pins)



PANEL LAYOUT

PCB LAYOUT
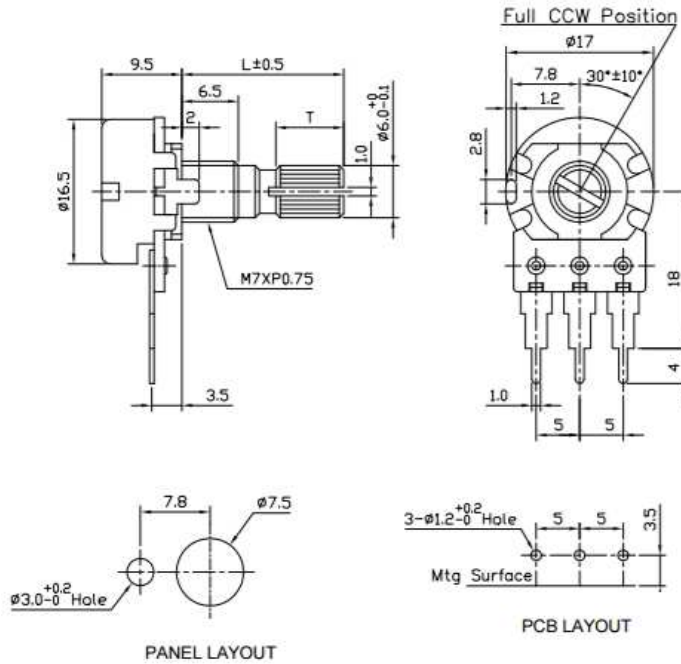
### Model P160KNPD (Rear Adjust , PC Pins)



PCB LAYOUT