

**Model P120**  
**12mm Rotary Potentiometer**  
**Single/Dual Unit**  
**Conductive Plastic Element**  
**100,000 Cycle Life**  
**Insulated shaft**  
**RoHS Compliant**



#### MODEL STYLES

|                                    |         |
|------------------------------------|---------|
| Side Adjust, PCB pins, Single unit | P120K   |
| Top Adjust, PCB pins, Single unit  | P120PK  |
| Top Adjust, PCB pins, Dual unit    | P120KGP |
| Side Adjust, PCB pins, Dual unit   | P120KGE |

#### ELECTRICAL<sup>1</sup>

|                                   |                     |
|-----------------------------------|---------------------|
| Resistance Range, Ohms            | 1K- 1M              |
| Standard Resistance Tolerance     | ± 20%               |
| Residual Resistance               | 20 ohms max.        |
| Input Voltage, maximum            | 50 Vac max.         |
| Power rating, Watts               | 0.05w               |
| Dielectric Strength               | 300Vac, 1 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

|                         |                   |
|-------------------------|-------------------|
| Total Mechanical Travel | 300°± 10°         |
| Static Stop Strength    | 50 oz-in          |
| Rotational Torque       | 0.5 to 1.25 oz-in |

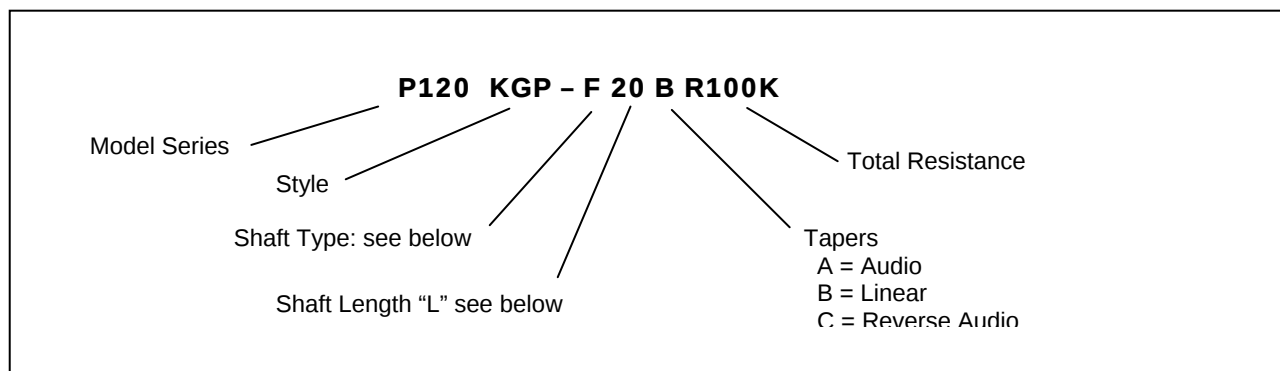
#### ENVIRONMENTAL

|                             |                |
|-----------------------------|----------------|
| Operating Temperature Range | -40°C to +85°C |
| Rotational Life             | 100,000 cycles |

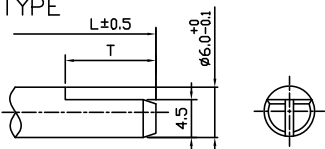
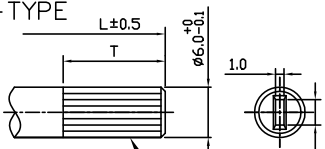
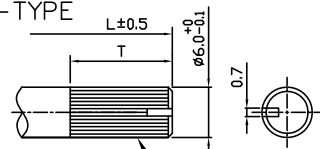
<sup>1</sup> Specifications subject to change without notice.

# Model P120

## ORDERING INFORMATION<sup>2</sup>



## Shaft Types

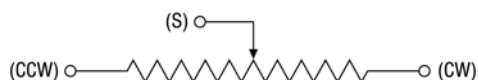
|             |                                                                                                     |    |    |    |    |    |    |    |                                                                                                      |    |    |    |    |    |    |  |                                                                                                       |    |    |    |    |    |  |  |  |
|-------------|-----------------------------------------------------------------------------------------------------|----|----|----|----|----|----|----|------------------------------------------------------------------------------------------------------|----|----|----|----|----|----|--|-------------------------------------------------------------------------------------------------------|----|----|----|----|----|--|--|--|
|             | <div>F-TYPE</div>  |    |    |    |    |    |    |    | <div>Y-TYPE</div>  |    |    |    |    |    |    |  | <div>T-TYPE</div>  |    |    |    |    |    |  |  |  |
| TOP ADJUST  | L                                                                                                   | 15 | 17 | 20 | 25 | 30 | 35 | 40 | L                                                                                                    | 15 | 20 | 25 | 30 | 35 | 40 |  | L                                                                                                     | 15 | 20 | 25 | 30 | 35 |  |  |  |
|             | T                                                                                                   | 5  | 7  | 7  | 12 | 12 | 12 | 12 | T                                                                                                    | 5  | 8  | 12 | 12 | 12 | 12 |  | T                                                                                                     | 5  | 7  | 7  | 12 | 12 |  |  |  |
| SIDE ADJUST | L                                                                                                   | 10 | 15 | 20 | 25 | 30 |    |    | L                                                                                                    | 10 | 15 | 20 | 25 | 30 |    |  | L                                                                                                     | 10 | 15 | 20 | 25 | 30 |  |  |  |
|             | T                                                                                                   | 5  | 8  | 12 | 12 | 12 |    |    | T                                                                                                    | 5  | 8  | 12 | 12 | 12 |    |  | T                                                                                                     | 5  | 7  | 7  | 12 | 12 |  |  |  |

## STANDARD RESISTANCE VALUES, OHMS

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

## CIRCUIT DIAGRAM

Unless otherwise specified

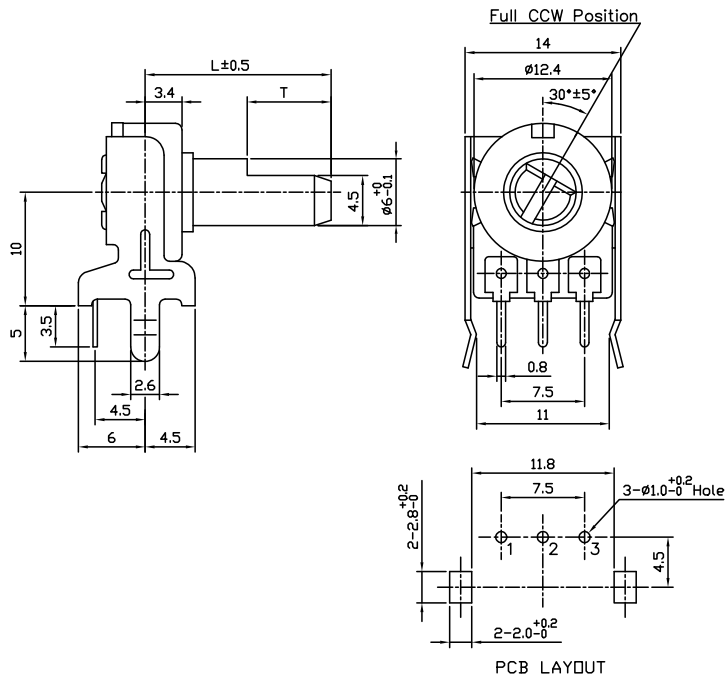


<sup>2</sup> Contact our customer service for custom designs and features.

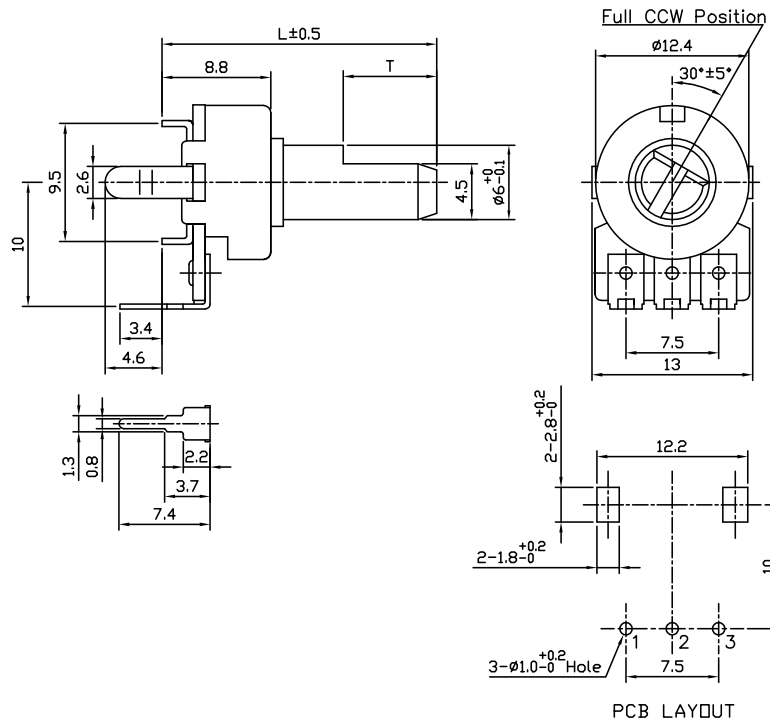
# Model P120

## OUTLINE DRAWING

### Model P120K (Side Adjust, PCB pins, Single unit)

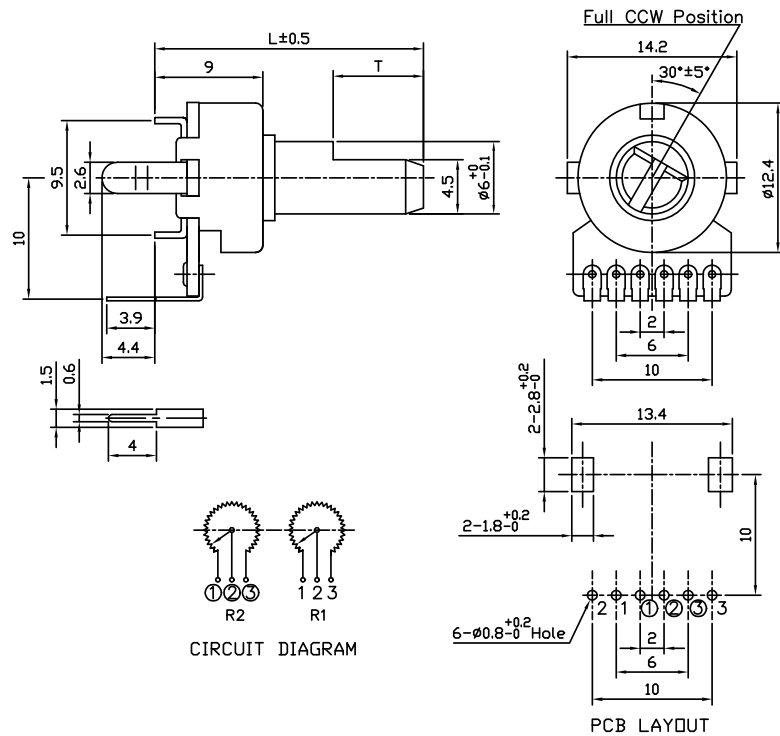


### Model P120PK (Top Adjust, PCB pins, Single unit)

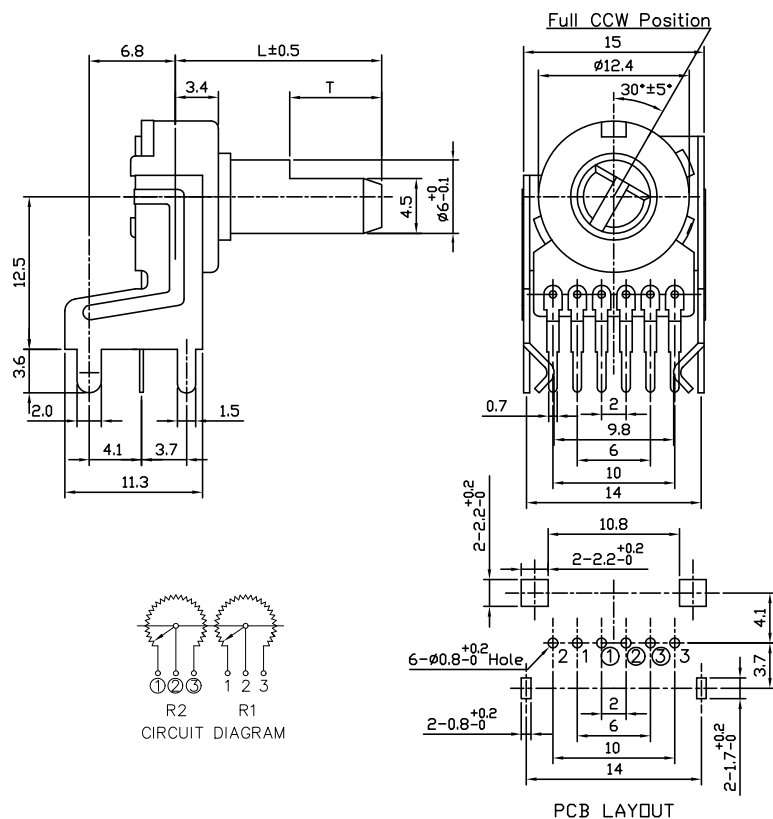


# Model P120

Model P120KGP (Top Adjust, PCB pins, Dual unit)



Model P120KGE (Side Adjust, PCB pins, Dual unit)



# Mouser Electronics

Authorized Distributor

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## TT Electronics:

[P120K-Y20BR50K](#) [P120KGP-Y35BR50K](#) [P120K-Y20AR10K](#) [P120PK-F17BR5K](#) [P120PK-Y20BR20K](#) [P120KGP-T35BR50K](#) [P120KGE-Y30BR50K](#) [P120KGE-Y35BR50K](#) [P120PK-F20BR5K](#) [P120K-F20BR5K](#) [P120KGP-F20BR100K](#) [P120KGP-F15BR10K](#) [P120KGP-F20BR10K](#) [P120K-Y20B100K](#) [P120PK-Y25BR10K](#) [P120KGP-Y15BR100K](#) [P120PK-Y20AR100K](#) [P120K-F20AR100K](#) [P120PK-F20AR2K](#) [P120PK-Y20AR50K](#) [P120KGE-F17AR50K](#) [P120PK-F40BR10K](#) [P120K-Y25AR50K](#) [P120KGP-F15B10K](#) [P120PK-Y20BR50K](#) [P120K-F25BR100K](#) [P120PK-F25BR100K](#) [P120KGE-F15AR50K](#) [P120KGP-Y15AR100K](#) [P120K-Y25BR10K](#) [P120PK-Y20BR100K](#) [P120K-F15AR10K](#) [P120PK-F04BR10K](#) [P120KGE-Y20BR50K](#) [P120KGP-Y15BR500K](#) [P120PK-Y25BR5K](#)