

## Spindle Operated Potentiometers

### Type 16P Series

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Specify the type 16P for applications where high insulation resistance and voltage proof are key requirements.

The materials used in the all plastic body and spindle construction are UL approved making it an ideal component for domestic appliances and control systems where safety is of prime importance.

This popular low cost potentiometer is suitable for industrial and professional applications.

#### Key Features

- Polymer Thick Film Element
- High Reliability
- Small Versatile Size
- All Plastic Body
- Plastic Spindle
- Flame Retardant

#### Characteristics - Electrical

<b>Resistance Range:</b>	1K to 1M (Linear) 4K7 - 470K (Non-Linear)
<b>Resistance Value:</b>	1, 2.2 and 4.7 in each decade
<b>Resistance Tolerance:</b>	± 20% (10% by selection)
<b>Rated Dissipation at 20°C:</b>	0.25W (Linear), 0.125W (Non Linear)
<b>Limiting Element Voltage:</b>	350 V DC or AC RMS
<b>Electrical Rotation:</b>	240°
<b>Terminal Resistance:</b>	5 ohms, maximum
<b>Noise (ENR):</b>	2% maximum (Linear), 3% maximum (Non Linear)
<b>Insulation Resistance:</b>	4G Ohms, minimum
<b>Voltage Proof:</b>	1KV AC Peak

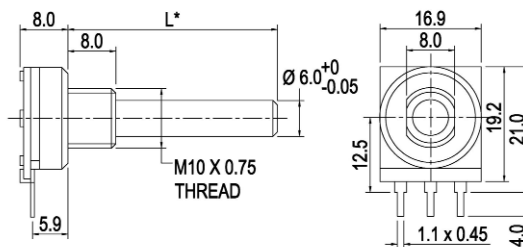
#### Characteristics - Mechanical

<b>Operating Torque:</b>	15mNm Maximum
<b>Mechanical Rotation:</b>	270° Nominal
<b>End Stop Torque:</b>	350mNm Maximum

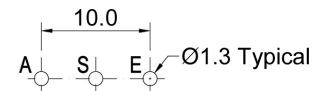
#### Characteristics - Environmental

<b>Limits of Resistance Change:</b>	ΔR15% (after 1000 Hours Endurance)
<b>Temperature Characteristics of Resistance:</b>	5% (20°C to 70°C)
<b>Bump Severity:</b>	390m/s <sup>2</sup> , 4000 Bumps
<b>Vibration Severity:</b>	10 - 500Hz, 0.75 mm or 98M/s <sup>2</sup>
<b>Climatic Category:</b>	25/70/04
<b>Mechanical Endurance:</b>	15000 Operations (Minimum)

#### Dimensions

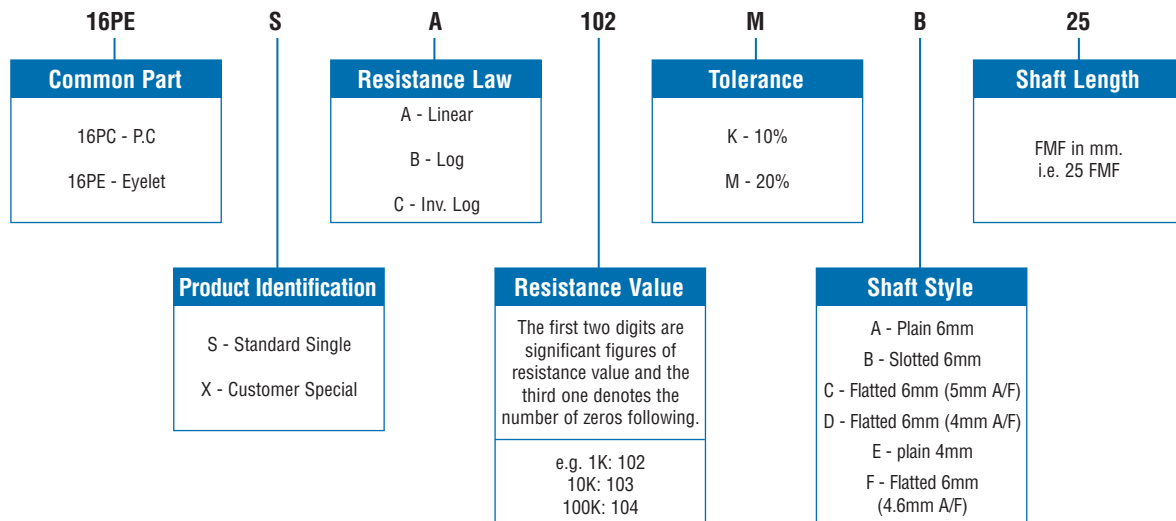


#### PCB Layout



\* For L Dimension, see Shaft Length in How to Order

#### How to Order



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