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

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

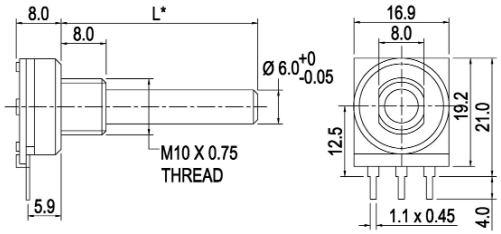
Characteristics - Mechanical

Operating Torque:	15mNm Maximum
Mechanical Rotation:	270° Nominal
End Stop Torque:	350mNm Maximum

Characteristics - Environmental

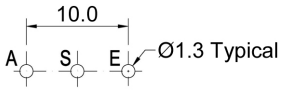
Limits of Resistance Change:	ΔR15% (after 1000 Hours Endurance)
Temperature Characteristics of Resistance:	5% (20°C to 70°C)
Bump Severity:	390m/s², 4000 Bumps
Vibration Severity:	10 - 500Hz, 0.75 mm or 98M/s²
Climatic Category:	25/70/04
Mechanical Endurance:	15000 Operations (Minimum)

Dimensions



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

PCB Layout



How to Order

16PE	S	A	102	M	B	25
Common Part	Product Identification	Resistance Law	Resistance Value	Tolerance	Shaft Style	Shaft Length
16PC - P.C 16PE - Eyelet	S - Standard Single X - Customer Special	A - Linear B - Log C - Inv. Log	The first two digits are significant figures of resistance value and the third one denotes the number of zeros following. e.g. 1K: 102 10K: 103 100K: 104	K - 10% M - 20%	A - Plain 6mm B - Slotted 6mm C - Flatted 6mm (5mm A/F) D - Flatted 6mm (4mm A/F) E - plain 4mm F - Flatted 6mm (4.6mm A/F)	FMF in mm. i.e. 25 FMF

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Dimensions are shown for reference purposes only.

Dimensions are in millimetres unless otherwise specified.

Specifications subject to change.

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