

Spindle Operated Potentiometers



Type 17P Series

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Specify the type 17P 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.

A range of approved switches can be added to the rear of the potentiometer, to produce rotary or push-push action mains switches.

Key Features

- Polymer Thick Film Element
- Switch Versions Available
- Dual Gang Version Available
- High Reliability
- Small Versatile Size
- All Plastic Body
- Plastic Spindle
- Flame Retardant

Characteristics -Electrical

Resistance Range:	1K to 1M (Linear), 4K7 to 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:	267° without switch, 232° with switch		
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:	15 mNm maximum
Mechanical Rotation:	300° nominal
End Stop Torque:	350 mNm maximum

Characteristics -Environmental

Limits of Resistance Change:	15% (after 1000Hrs. 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/s ²	
Climatic Category:	25/70/04	
Mechanical Endurance:	10000 Operations (minimum)	

Characteristics -

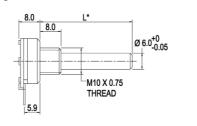
Switch

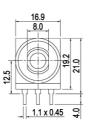
	B & D	A & E	Р
Switch Type:	1 Amp	4 Amps	10 Amps
Current/Voltage Rating:	1.0A - 24 Volts DC	10A - 12 Volts DC	10A - 250 Volts AC
	0.3A - 250 Volts AC	4A - 250 Volts AC	
On/Off Torque:	40 mNm maximum	40mNm maximum	Life - 25,000 cycles minimum
Initial Contact Resistance:	20 milliohms	20 milliohms	Proof Voltage - 3KV minimum
Contact Gap:	3mm	3mm	



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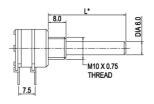
Dimensions Single Potentiometer

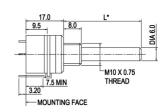




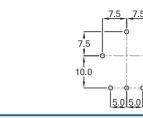
Dual Potentiometer

Single Switched Potentiometer





Push-Push Switch PCB Layout



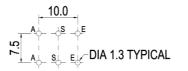
Potentiometer PCB Layout

5.0 5.0

Rotary Switch PCB Layout

5.75

5.0

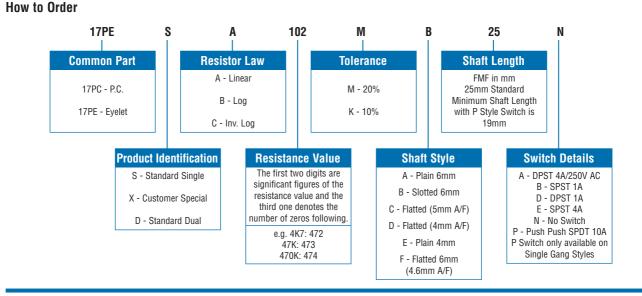


5.75

Ø1.3

L* - Standard Shaft Length 35mm All Dimensions given from Component Side

Ø1.3



Literature No. 1773176 Issued: 09-05 Dimensions are shown for reference purposes only.

Dimensions are in millimetres unless otherwise specified.

Specifications subject to change. www.tycoelectronics.com passives.tycoelectronics.com