

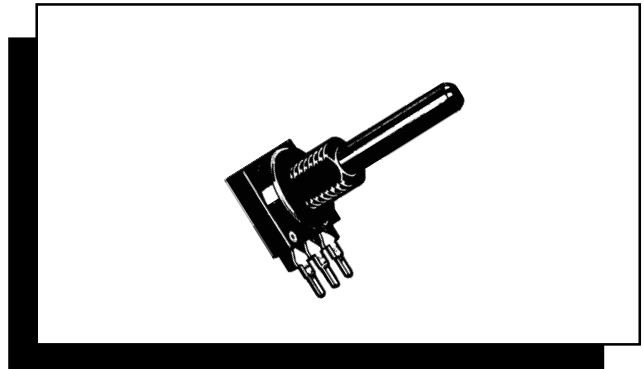
MEGGITT CITEC  
POTENTIOMETERS  
INDUCTORS,  
SURFACE MOUNT DEVICES  
SWITCHES, NETWORKS  
ENCODERS, SENSORS

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## 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 switches approved to BS415 can be added to the rear of the potentiometer, to produce rotary or push-push action mains switches.

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### MEGGITT CITEC 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
  - ATTRACTIVELY PRICED
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**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:	350V 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

**MECHANICAL**

Operating Torque, Max.:	15mNm maximum
Mechanical Rotation:	300° nominal
End Stop Torque:	350mNm maximum

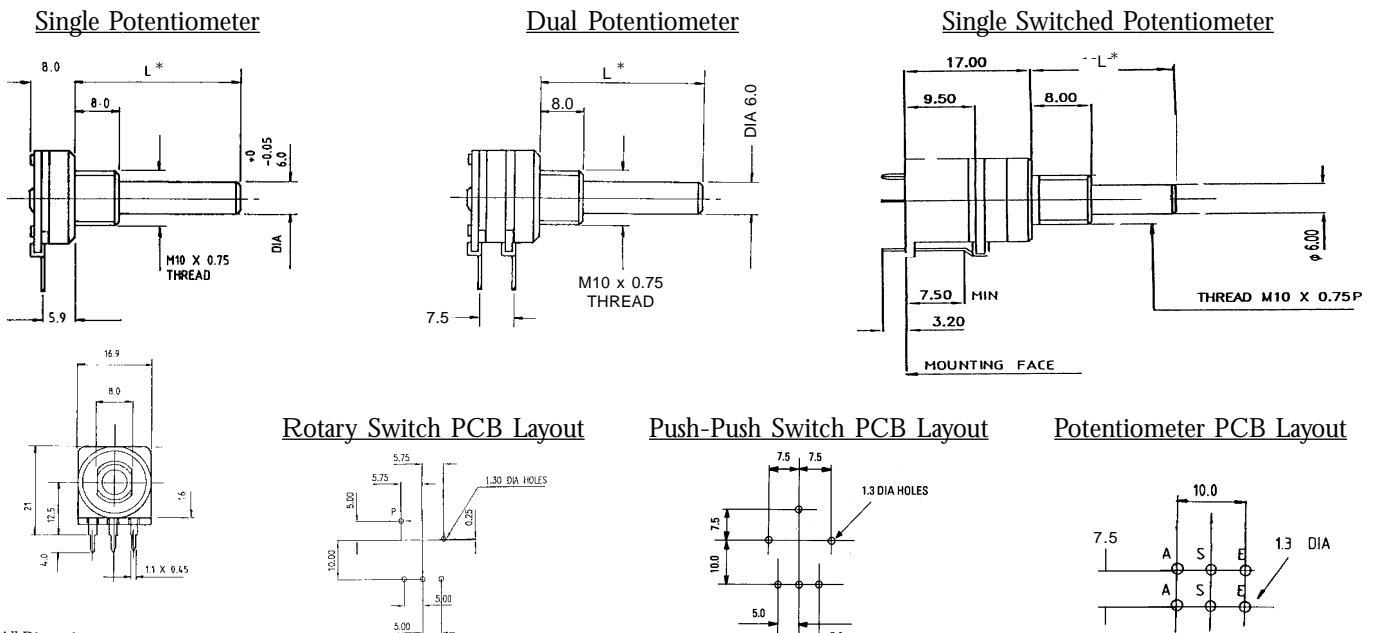
**ENVIRONMENTAL**

Limits of Resistance Change:	15% (after 1000Hrs. Endurance)
Temperature Characteristics of Resistance:	5% (20°C to 70°C)
Bump Severity:	390m/s <sup>2</sup> , 4000 Bumps
Vibration Severity:	10 - 500Hz, 0.75 mm or 98M/s <sup>2</sup>
Climatic Category:	25/70/04
Mechanical Endurance:	10000 Operations (minimum)

**SWITCH**

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

**DIMENSIONS**



All Dimensions are in mm and nominal. Do Not Scale.

L\* - Standard Shaft Length 35mm

ALL DIMENSION GIVEN VIEWED FROM COMPONENT SIDE

**HOW TO ORDER**

COMMON PART	PRODUCT IDENTIFICATION	RESISTOR LAW	RESISTANCE VALUE	TOLERANCE	SHAFT STYLE	SHAFT LENGTH	SWITCH DETAILS
17PE 17PC - PC. 17PE - Eyelet	S - Standard Single X - Customer Special D - Standard Dual	A - Linear B - Log C - Inv Log	The first two digits are significant figures of resistance value and the third one donates the number of zeroes following Example: 4K7 : 472 47K : 473 470K : 474	M - 20% K - 10%	A - Plain 6mm B - Slotted 6mm C - Flatted (5mm A/F) D - Flatted (4mm A/F) E - Plain 4mm	FMF in mm 35mm Standard Minimum Shaft Length with P Style Switch is 19mm	A - DPST 4A/250V AC B - SPST 1A D - DPST 1A E - SPST 4A N - No Switch P - Push Push SPDT 10A P Switch only available on Single Gang Styles.



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