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.

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 RETARDENT
- ATTRACTIVELY PRICED
**SPECIFICATION**

**TYPE 17P SERIES**

**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:** 1K V ac Peak
- **Operating Temperature:**
  - Linear: ± 20% (10% by selection)
  - Non-Linear: ± 20% (10% by selection)

**MECHANICAL**
- **Operating Torque, M.:** 15mNm maximum
- **Mechanical Rotation:** 30° 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, 4000 Bumps
- **Vibration Severity:** 10 - 500Hz, 0.75 mm or 98M/s²
- **Climatic Category:** 25/70/04
- **Mechanical Endurance:** 10000 Operations (minimum)

**SWITCH**
- **Switch Type:**
  - B & D: 1 Amp
  - A & E: 4 Amps
  - P: 10Amps
- **Current/Voltage Rating:**
  - B: 1.0A - 24VoltsDC
  - A: 10A - 12VoltsDC
  - E: 10A - 250VoltsAC
- **Contact Configuration:**
  - B: 0.3A - 250VoltsAC
  - A: 4A - 250VoltsAC
  - E: ProofVoltage - 3KV minimum
- **Initial Contact Resistance:**
  - B: 40 mOhms maximum
  - A: 40mOhms m maximum
  - E: 40mOhms m maximum
- **Contact Gap:**
  - B: 20 milliohms
  - A: 20 milliohms
  - E: 20 milliohms

**DIMENSIONS**

**Single Potentiometer**

**Dual Potentiometer**

**Single Switched Potentiometer**

**Switch Type:**
- A: Plain 6mm
- B: Slotted 6mm
- C: Flatted (5mm A/F)
- D: Flatted (4mm A/F)
- E: Plain 4mm

**Rotary Switch PCB Layout**

**Push-Push Switch PCB Layout**

**Potentiometer PCB Layout**

**HOW TO ORDER**

<table>
<thead>
<tr>
<th>Type</th>
<th>S</th>
<th>A</th>
<th>M</th>
<th>B</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>17PC</td>
<td>P.C.</td>
<td>S - Standard Single</td>
<td>A - Linear</td>
<td>M - 20%</td>
<td>A - Plain 6mm</td>
</tr>
<tr>
<td>17PE</td>
<td>P.C.</td>
<td>X - Customer Special</td>
<td>B - Log</td>
<td>K - 10%</td>
<td>B - Slotted 6mm</td>
</tr>
<tr>
<td>17PE</td>
<td>Eyelet</td>
<td>D - Standard Dual</td>
<td>C - Inv Log</td>
<td></td>
<td>C - Flatted (5mm A/F)</td>
</tr>
</tbody>
</table>

**PRODUCT IDENTIFICATION**
- S: Standard Single
- X: Customer Special
- D: Standard Dual

**RESISTANCE VALUE**
- Linear: 4K7, 472, 47K, 470K
- Non-Linear: 1K, 2.2K, 4.7K

**RESISTANCE TOLERANCE**
- ± 20% (10% by selection)

**SHAFT STYLES**
- A: Plain 6mm
- B: Slotted 6mm
- C: Flatted (5mm A/F)
- D: Flatted (4mm A/F)
- E: Plain 4mm

**SHAFT LENGTH**
- M: 25mm

**SWITCH DETAILS**
- A: DPST 4A/250VAC
- B: SPST 2A
- C: SPST 4A
- E: No Switch
- P: Push-Push SPDT 10A

**All Dimensions**
- in mm and nominal.
- Do Not Scale.

**NOTICE**
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