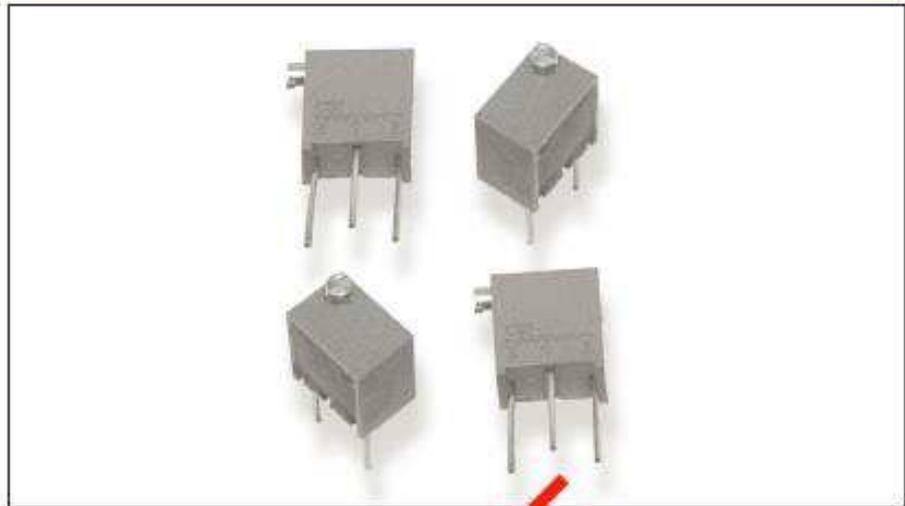


Type 4270 Series

Key Features

- High Resolution Cermet Element
- Reliable, Quality Performance
- Choice of Adjustment Styles
- 0.25 Watt Rating at 70°C
- Low Temperature Coefficient
- Space-Saving Size
- Fully Sealed for Board Washing



Small, modern and reliable, this is a range of film square multiturn trimming potentiometers well suited to industrial and professional applications. For stability, the range has a cermet resistance element. The trimmer is actuated by a lead screw with slipping clutch at each end of travel. Components from this range are available with various adjustment configurations. They are all fully sealed to withstand immersion in normal board washing solvents.

Characteristics - Electrical

| | |
|---------------------------|--|
| Resistance Range: | 50Ω to 10M |
| Resistance Values: | 2 and 5 in each decade |
| Resistance Tolerance: | 10% |
| End Resistance: | 2 Ohms or 1% whichever is the greater. |
| Slider Current: | 50 mA maximum. |
| Power Rating: | 0.25W at 70°C derating to zero at 125°C |
| Isolation Voltage: | 300 V dc or ac peak maximum |
| Limiting Element Voltage: | 250 V dc or ac RMS maximum |
| Breakdown Voltage: | 420 VAC |
| Insulation Resistance: | 1000 M at 500 V dc |
| Resolution: | Essentially infinite |
| Rotational Noise (CRV): | 3 Ohms or 3 %, whichever is greater maximum. |
| Electrical Adjustment: | 12 ± 1 turns |

Characteristics - Mechanical

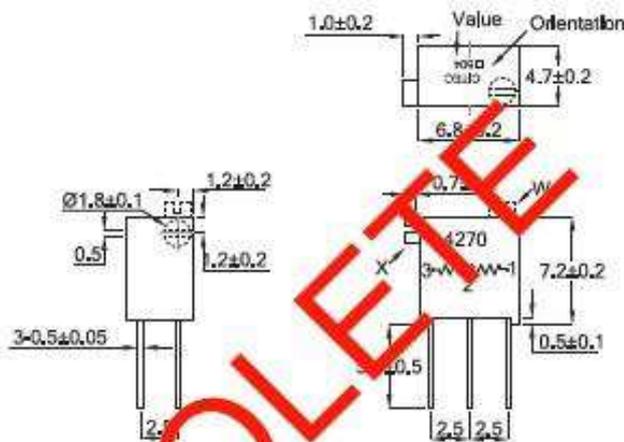
| | |
|------------------------|-------------------------------------|
| End Stop: | Slipping clutch action, wiper idles |
| Starting Torque: | < 21mNm |
| Mechanical Adjustment: | 14 turns, nominal |
| Weight: | 0.4gm maximum |

Type 4270 Series

Characteristics - Environmental

| | |
|--------------------------|------------------------------------|
| Temperature Range: | -55°C to +125°C |
| Thermal Shock: | 5 Cycles -55°C to +125°C |
| Temperature Coefficient: | ± 250ppm/°C |
| Shock: | 100g |
| Vibration Severity: | 10 - 500Hz; 10g (0.75mm or 98m/s²) |
| Rotational Life: | 200 Cycles |
| Load Life at 85°C: | ΔR <2% after 1000 hours |
| Sealing: | Sealed for board washing |

Dimensions



How to Order

| 4270 | W | 502 | M |
|--------------------|-----------------------------------|---|------------------|
| Common Part | Pin Layout | Resistance Value | Tolerance |
| 4270 | W - Top Adjust X - Side Adjust | The first two digits are significant figures of resistance value and the third denotes the number of zeros following. e.g. 1K: 102 5K: 502 100K: 104 | K - ±10 % |