



T H E R M O M E T R I C S
A C O M M I T M E N T T O E X C E L L E N C E

Type PTO Series

Thermometrics PTC Thermistors



Description

Thermometrics PTO series consists of a range of radially-wire bare PTC disc thermistors.

Features

- Low cost solid state sensor
- Available in a broad range of resistances, transition temperatures and voltage ratings
- Exhibits large positive increases in resistance with temperature
- Resistance/temperature characteristic is infinitely repeatable and has no hysteresis associated with its action
- Proven quality and reliability over many years of manufacturing

Applications

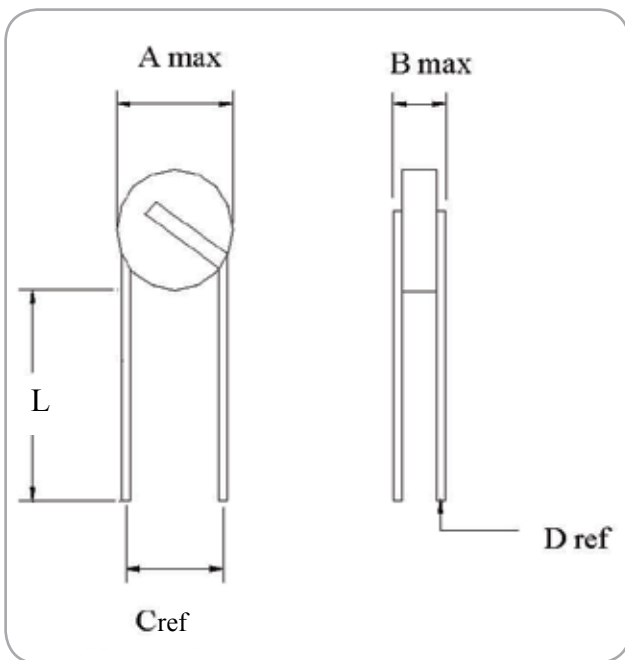
- Current regulation
- Circuit protection
- Temperature measurement and control

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| Operating Voltage, V_{max} | Part Number | Replacement for | R @ 25°C ($\pm 30\%$) Ω | Switch Temperature, T_b | A (max) mm | B (max) mm | C (ref) mm | D (ref) mm | L (min) mm |
|------------------------------|-------------|-------------------------------------|-------------------------------------|---------------------------|------------|------------|------------|------------|------------|
| 12 | YQS5893PTO | YS5893PTO (RL5305-2.5-110-12-PTO) | 2.5 | 120°C | 15.24 | 4.06 | 5.0 | 0.6 | 25 |
| 12 | YQS5898PTO | YS5898PTO (RL3005-25-110-12-PTO) | 25 | 120°C | 8.89 | 3.81 | 5.0 | 0.6 | 25 |
| 25 | YQS5745PTO | YS5745PTO (RL3006-50-30-25-PTO) | 50 | 43°C* | 8.89 | 3.81 | 5.0 | 0.5 | 25 |
| 25 | YQS5749PTO | YS5749PTO (RL3006-50-80-25-PTO) | 50 | 80°C | 8.89 | 3.81 | 5.0 | 0.5 | 25 |
| 25 | YQS5750PTO | YS5750PTO (RL3006-50-90-25-PTO) | 50 | 90°C | 8.89 | 3.81 | 5.0 | 0.5 | 25 |
| 25 | YQS5751PTO | YS5751PTO (RL3006-50-100-25-PTO) | 50 | 100°C | 8.89 | 3.81 | 5.0 | 0.5 | 25 |
| 120 | YQS5917PTO | YS5917PTO (RL6010-20-120-120-PTO) | 20 | 120°C | 16.51 | 5.84 | 8.38 | 0.8 | 38.1 |
| 120 | YS5918PTO | RL5510-25-60-120-PTO | 25 | 60°C | 15.24 | 5.59 | 8.38 | 0.8 | 38.1 |
| 120 | YS5921PTO | RL2510-200-110-120-PTO | 200 | 120°C | 7.62 | 5.08 | 3.81 | 0.6 | 38.1 |
| 240 | YQS5925PTO | YS5925PTO (RL6015-100-120-240-PTO) | 100 | 120°C | 16.51 | 6.86 | 8.38 | 0.8 | 38.1 |
| 240 | YQS5930PTO | YS5930PTO (RL3020-3000-100-240-PTO) | 3K | 110°C | 8.89 | 7.87 | 6.35 | 0.8 | 25 |
| 480 | YQS5934PTO | YS5934PTO (RL3020-5K-100-480-PTO) | 5K | 102°C | 8.89 | 7.62 | 6.35 | 0.8 | 25 |

*Resistance = 2 x Resistance at 25°C

Mechanical Specifications



Electrical Specifications

Ambient Temperature Range

At Storage: -25 to +155°C

At Maximum Voltage: +10 to +55°C

Construction

Bare ceramic disc
Thick silver film electrodes
Uninsulated leadwires

Terminations

Straight type, tin coated copper wire

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AAS-920-458B-03/2014

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