



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



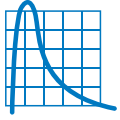
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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

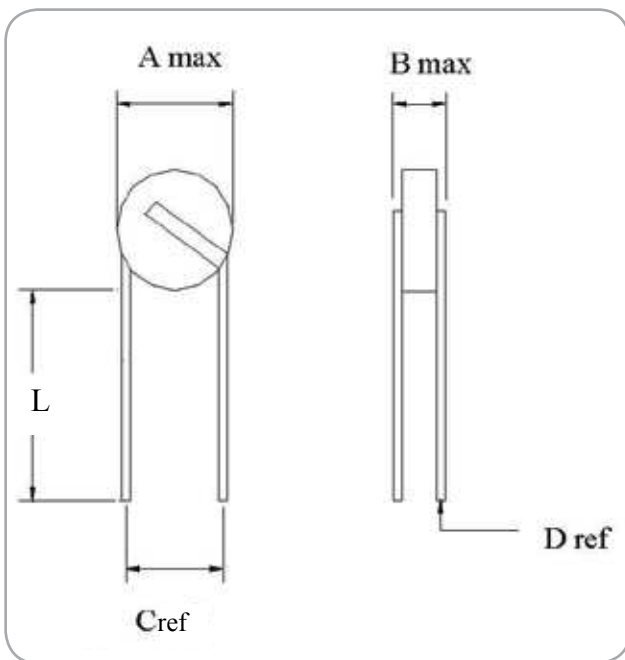
- Current regulation
- Circuit protection
- Temperature measurement and control

Amphenol
Advanced Sensors

| 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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