



Type YP Series Thermometrics PTC Thermistors



Description

Thermometrics YP series consists of a range of radially-wired PTC disc thermistors with silicone coating intended for use as a current limiting device.

Features

- Wide range of operating current & voltage levels
- Excellent stability
- Fail-safe operation
- Solid state
- High performance barium titanate ceramic
- Suitable for automatic PCB insertion

Applications

- Designed for general purpose over-current, overvoltage and direct over-temperature protection

Packaging

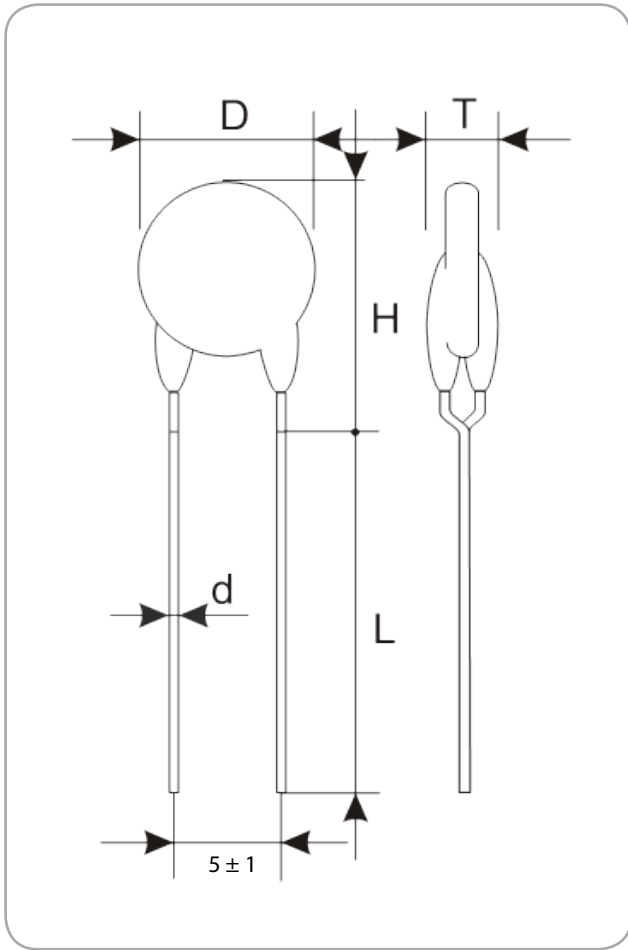
All types in the YP range are available loose-packed, as shown in the drawing. Devices are also available on bandolier (tape & reel).

To identify the packaging required, add suffix as follows:

Bandoliered T
 Loose-packed N*

*only required for YPBL0055 and YPEL6250

Electrical Specifications



Tolerance on R25

±25%

Ambient Temperature Range

at maximum voltage 0 to +60°C
at zero voltage..... -25 to +125°C

Body Coating

Silicone resin: black YP, green YQS

Lead Wire Material

Copper with exception for YPEL6250, copper clad steel

| Operating Voltage, V_{max} | Switch Temperature, T_b °C | Part Number | Replacement for | R @ 25°C (±25%) Ω | Maximum Current without Tripping, I_{nt} $T_{amb} = 55°C$ mA | Minimum Trip Current, I_t $T_{amb} = 25°C$ mA | Maximum Overload Current, I_{mo} mA | Maximum Residual Current, I_{res} mA | D (max) mm | T (max) mm | H (max) mm | d (nom) mm | L (min) mm |
|------------------------------|------------------------------|-------------|-----------------|-------------------|--|---|---------------------------------------|--|------------|------------|------------|------------|------------|
| 30Vdc | 120 | YQS8122 | YPAL1.20N | 1.2 | 600 | 1200 | 4.3 | 140 | 11.0 | 3.5 | 14.5 | 0.6 | 25 |
| 30Vdc | 120 | YQS8123 | YPAL4.60N | 4.6 | 250 | 500 | 1.0 | 90 | 6.5 | 3.5 | 12.0 | 0.6 | 25 |
| 30Vdc | 120 | YQS8103 | YPAL0013N | 13 | 120 | 240 | 0.7 | 50 | 4.5 | 3.5 | 10.0 | 0.5 | 25 |
| 80Vdc | 120 | YPBL0055 | | 55 | 50 | 100 | 0.7 | 24 | 4 | 3.5 | 7.5 | 0.5 | 35 |
| 265Vrms | 80 | YQS8119 | YPCJ0150N | 150 | 15 | 45 | 0.2 | 6.0 | 4.5 | 5.0 | 9.0 | 0.5 | 25 |
| 265Vrms | 110 | YQS8121 | YPCL0120N | 120 | 35 | 80 | 0.4 | 10 | 6.5 | 5.0 | 12.0 | 0.6 | 25 |
| 420Vrms | 110 | YQS8120 | YPDL0600N | 600 | 21 | 39 | 0.2 | 6 | 6.5 | 5.0 | 12.0 | 0.6 | 25 |
| 550Vrms | 120 | YPEL6250 | | 6250 | 6 | 14 | 0.15 | 3 | 4 | 5 | 7.5 | 0.5 | 35 |

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