

# 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

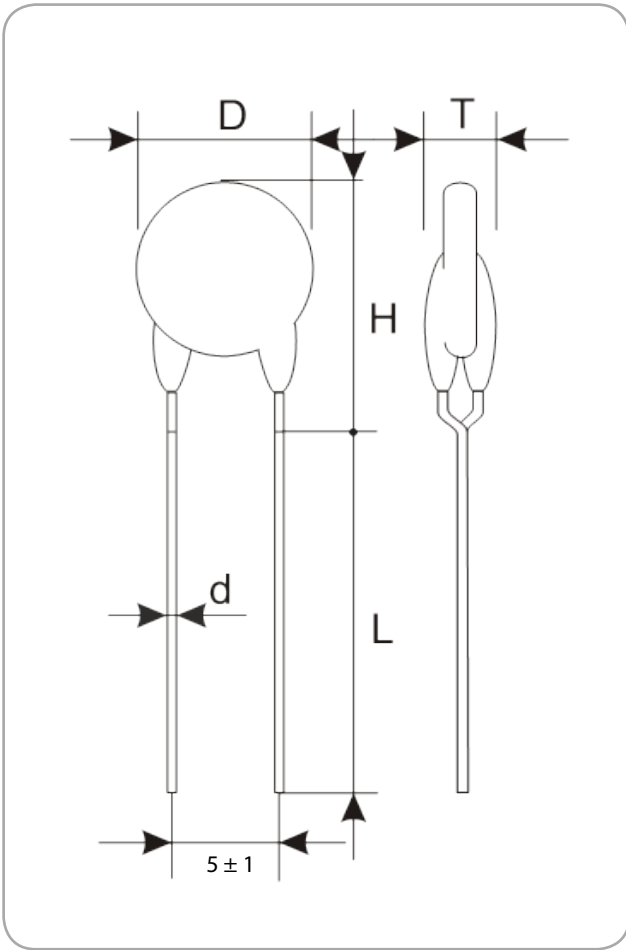
All types in the YP range are available loose-packed, as shown in the drawing. Devices are also available on bandolier (tape & reel).

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%) $\Omega$	Maximum Current without Tripping, $I_{nt}$ $T_{amb} = 55^\circ\text{C}$ mA	Minimum Trip Current, $I_t$ $T_{amb} = 25^\circ\text{C}$ 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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