

T H E R M O M E T R I C S
A COMMITMENT TO EXCELLENCE
AN AMPHENOL COMPANY

Type PTF Series PTC Thermistors



Description

Thermometrics PTF Series consists of a range of radially-wired bare PTC disc thermistors.

Features

- Solid state fuse
- Available in a broad range of resistances 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

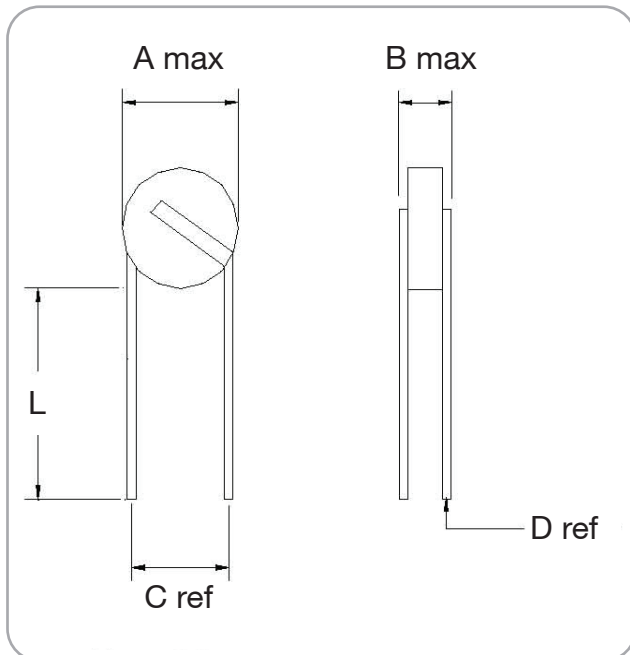
Applications

- Designed for general purpose over-current and short-circuit protection

Amphenol Sensors

Operating Voltage, V_{max}	R @ 25°C ($\pm 20\%$) Ω	Part Number	Replacement for	Switch Temperature, T_b	Minimum Trip Current (I_t), $T_{amb} = 25^\circ\text{C}$	Maximum Current without Tripping (I_{nt}), $T_{amb} = 55^\circ\text{C}$	A (max) mm	B (max) mm	C (ref) mm	D (ref) mm	L (min) mm
18	10	YS5838PTF	RL3005-10-110-12-PTF	120°C	290mA	140mA	8.9	3.8	6.4	0.5	38.1
25	3	YS5846PTF	RL5008-3.0-110-25-PTF	120°C	740mA	370mA	14.0	4.6	8.4	0.6	38.1
50	10	YS5853PTF	RL4006-10-110-50-PTF	120°C	340mA	170mA	11.4	4.3	6.9	0.5	38.1
50	50	YS5855PTF	RL4010-50-110-50-PTF	120°C	170mA	80mA	11.4	5.1	8.4	0.6	38.1
50	100	YS5856PTF	RL3810-100-110-50-PTF	120°C	120mA	60mA	10.7	5.1	6.4	0.5	38.1
120	50	YS5868PTF	RL4510-50-110-120-PTF	120°C	170mA	80mA	12.7	5.1	8.4	0.8	38.1
120	100	YS5869PTF	RL3510-100-110-120-PTF	120°C	110mA	60mA	10.2	5.1	6.4	0.6	38.1
240	50	YS5876PTF	RL6315-50-110-240-PTF	120°C	210mA	100mA	16.5	6.9	8.4	1.0	38.1
240	250	YS5878PTF	RL6315-250-110-240-PTF	120°C	90mA	50mA	16.5	6.9	8.4	1.0	38.1

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

Amphenol
Sensors

www.amphenol-sensors.com

© 2025 Amphenol Corporation. All Rights Reserved. Specifications are subject to change without notice. Other company names and product names used in this document are the registered trademarks or trademarks of their respective owners.