

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 PTF Series

Thermometrics PTC Thermistors

Description

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

Features

- Low cost solid state fuse
- 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



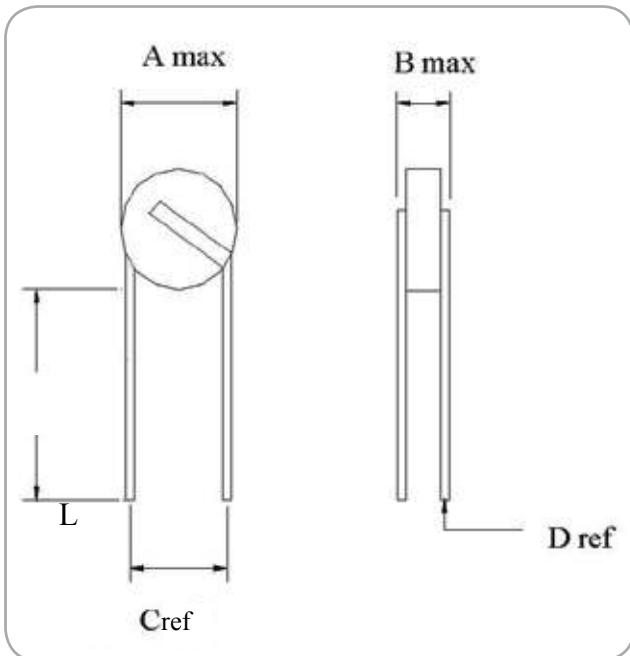
Applications

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

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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	YQS5838PTF	YS5838PTF (RL3005-10-110-12-PTF)	120°C	290 mA	140 mA	8.9	3.8	5	0.6	25
25	3	YQS5846PTF	YS5846PTF (RL5008-3.0-110-25-PTF)	120°C	740 mA	370 mA	14.0	4.6	5.0	0.6	25
50	10	YQS5853PTF	YS5853PTF (RL4006-10-110-50-PTF)	120°C	400 mA	170 mA	11.4	4.3	5.0	0.6	25
50	50	YQS5855PTF	YS5855PTF (RL4010-50-110-50-PTF)	120°C	170 mA	80 mA	11.4	5.1	5.0	0.6	25
50	100	YQS5856PTF	YS5856PTF (RL3810-100-110-50-PTF)	120°C	120 mA	60 mA	10.7	5.1	5.0	0.5	25
120	50	YQS5868PTF	YS5868PTF (RL4510-50-110-120-PTF)	110°C	170 mA	80 mA	13.5	5.1	5.0	0.6	25
120	100	YS5869PTF	RL3510-100-110-120-PTF	120°C	110 mA	60 mA	10.2	5.1	6.4	0.6	38.1
240	50	YQS5876PTF	YS5876PTF (RL6315-50-110-240-PTF)	120°C	210 mA	100 mA	16.5	6.9	8.4	1.0	38.1
240	250	YQS5878PTF	YS5878PTF (RL6315-250-110-240-PTF)	115°C	120 mA	45 mA	16.5	6.9	8.4	1.0	25

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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