THERMOMETRICS
A COMMITMENT TO EXCELLENCE

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

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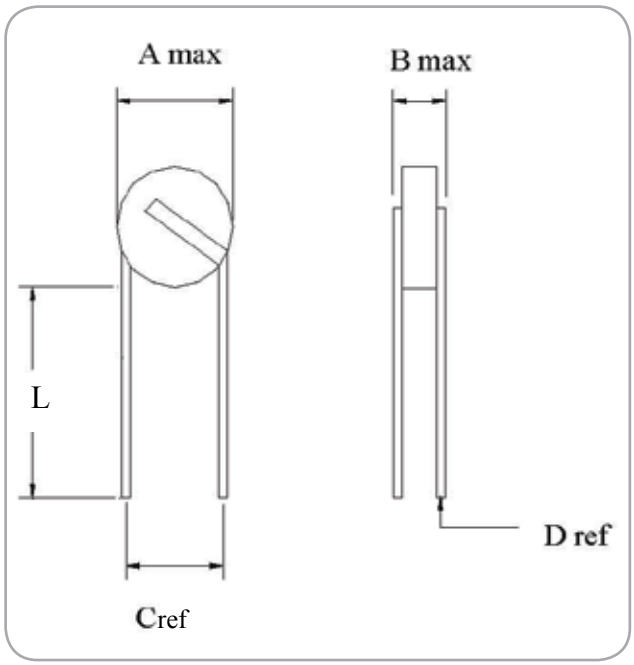
Operating Voltage, V_{max}	Part Number	Replacement for	R @ 25°C (±30%) Ω	Switch Temperature, T_b	A (max) mm	B (max) mm	C (ref) mm	D (ref) mm	L (min) mm
12	YQS5893PTO	YS5893PTO (RL5305-2.5-110-12-PTO)	2.5	120°C	15.24	4.06	5.0	0.6	25
12	YQS5898PTO	YS5898PTO (RL3005-25-110-12-PTO)	25	120°C	8.89	3.81	5.0	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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