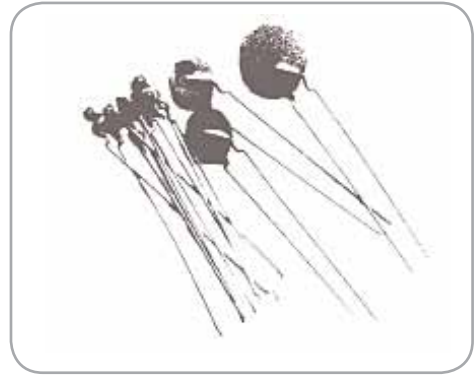




T H E R M O M E T R I C S
A C O M M I T M E N T T O E X C E L L E N C E

PTC Thermistors Type YM120

Over-Current Protection



Description

A range of radially-wired PTC disc thermistors with black silicone resin coating.

Features

- Designed for general purpose over-current, over-voltage and direct over-temperature protection
- Operation up to 265V rms
- Wide range of operating current levels
- Excellent stability
- Fail-safe operation
- Solid state
- High performance barium titanate ceramic
- Suitable for automatic PCB insertion

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Type YM120 Specifications

Packaging

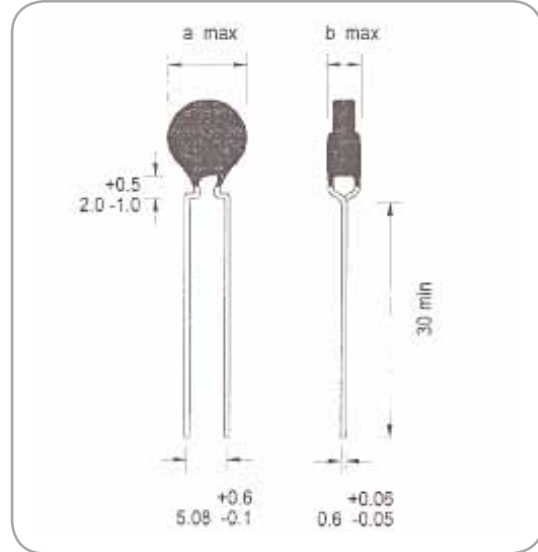
All types in the YM120 range are available loose packed, as shown in the drawing. Devices are also available on bandolier (tape & reel); types with diameter $a < 0.57$ in (14.5 mm) comply with IEC 286-2.

To identify the packaging required, replace X in the product codes shown in table as follows:

- Bandoliered R
- Loose-packed N

Pack quantities:

- Loose-packed 500/box
- Bandoliered
- $a < 0.57$ in (14.5 mm) 1000/reel (0.5 in (12.7 mm) pitch)
- $a \geq 0.57$ in (14.5 mm) 500/reel (1 in (25.4 mm) pitch)



Dimensions

Data

- Maximum operating voltage 265 V rms
- Switch temperature 248°F (120°C) nominal
- Tolerance on R25 $\pm 20\%$
- Ambient temperature range:
 - at maximum voltage 32°F to 131°F (0°C to 55°C)
 - at zero voltage -13°F to 311°F (-25°C to 155°C)
 - Lead wire material Solder-coated copper
 - Body coating Silicone resin

Options

- Non-standard resistances and tolerances
- Resistance matching
- Non-standard wire lengths
- Other wire configurations

Code code	R ₂₅	I _{nt}	I _t	I _{mo}	I _r	a	b	Brand
	Ω	A	A	A	mA	mm	mm	
YM120C15X182	1800	0.016	0.023	0.1	5	4.0	4.5	D
YM120C20X122	1200	0.020	0.028	0.1	6	4.0	4.5	E
YM120C30X601	600	0.028	0.040	0.2	6	4.0	4.5	F
YM120C45X301	300	0.039	0.055	0.2	7	4.0	4.5	G
YM120C60X151	150	0.057	0.080	0.2	7	4.0	4.5	H
YM120C80X101	100	0.070	0.098	0.4	8	4.5	4.5	I
YM120D105X600	60	0.093	0.131	0.6	8	6.0	4.5	J
YM120D125X450	45	0.110	0.155	0.7	9	7.0	4.5	bTh
450								
YM120D150X330	33	0.128	0.181	0.9	9	7.5	4.5	bTh
330								
YM120D170X250	25	0.161	0.228	1.1	10	8.5	4.5	bTh
250								
YM120D200X200	20	0.192	0.265	1.3	11	9.5	4.5	bTh
200								
YM120D260X150	15	0.234	0.330	1.7	12	11.5	4.5	bTh
150								
YM120D370X100	10	0.314	0.444	2.7	16	14.5	4.5	bTh
100								
YM120D480X060	6	0.407	0.575	3.9	25	17.5	4.5	bTh
060								

R ₂₅	Resistance at 77°F (25°C)
I _{nt}	Maximum current without tripping (77°F (25°C) ambient)
I _t	Minimum trip current (77°F (25°C) ambient)
I _{mo}	Maximum overload current
I _r	Residual current (77°F (25°C) ambient)

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