

THE R M O M E T R I C S  
A COMMITMENT TO EXCELLENCE

# Type YM Series

## Thermometrics PTC Thermistors



### Description

Thermometrics YM Series consists of a range of radially-wired PTC disc thermistors with silicone resin coating.

### Features

- Fast switching times
- 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

### Applications

- Designed for general purpose over-current, overvoltage and direct over-temperature protection

### Packaging

All types in the YM range are available loose-packed, as shown in the drawing. Devices are also available on bandolier (tape & reel): types with diameter  $a < 12$  mm comply with IEC 286-2.

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

#### YM

Bandoliered .....R\*  
Loose-packed .....N

#### YQS

Bandoliered .....Add T suffix

Pack quantities:

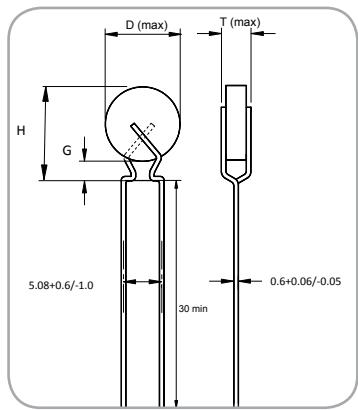
Loose-packed .....500-2500/box  
Bandoliered : ..... 375-1500/reel

\*YM120D260N150

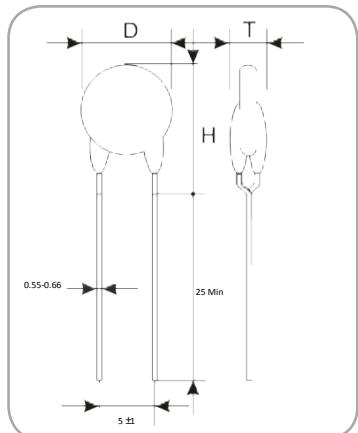
\*YM120D370N100

*Not available taped and reeled*

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YM Drawing



YQS Drawing

## Electrical Specifications

### Maximum Operating Voltage

265V rms

### Switch Temperature

120°C nominal

### Tolerance on $R_{25}$

$\pm 20\%$

### Ambient Temperature Range

At Storage: -25 to +155°C

At Maximum Voltage: 0 to +55°C

### Lead Wire Material

Tin-coated copper

### Body Coating

Silicone resin, black YM, green YQS

Part Number	Replacement for	R @ 25°C Ω	Maximum Current without Tripping ( $I_{nt}$ ) mA	Minimum Trip Current ( $I_t$ ) mA	Maximum Overload Current ( $I_{mo}$ ) A	Maximum Residual Current ( $I_{res}$ ) mA	D (max) mm	T (max) mm	H (max) mm	G mm	
T=25°C T=55°C T=25°C T=10°C											
YM120C15N182		1800	16	14	23	28	0.1	5	4	5	8
YM120C20N122		1200	20	17	28	34	0.1	6	4	5	8
YQS8070	YM120C30N601	600	22	18	40	46	0.2	5	4.5	5	8
YQS8069	YM120C45N301	300	33	26	55	62	0.2	7	4.5	5	9
YQS8068	YM120C80N101	100	65	50	98	108	0.4	7	5.5	5	12
YQS8067	YM120D105N600	60	85	65	131	144	0.6	9	6	4.5	12
YM120D125N450		45	110	85	155	170	0.7	9	7	4.5	2 +0.5,-1
YQS8066	YM120D150N330	33	128	99	181	198	0.9	12	7.5	4.5	12
YM120D170N250		25	161	125	228	250	1.1	10	8.5	4.5	2 +0.5,-1
YQS8065	YM120D200N200	20	168	130	265	298	1.3	10	9.5	4.5	15
YM120D260N150		15	234	181	330	362	1.7	12	11.5	4.5	2 +0.5,-1
YM120D370N100		10	314	243	444	486	2.7	16	14.5	4.5	2 +0.5,-1

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