

# 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

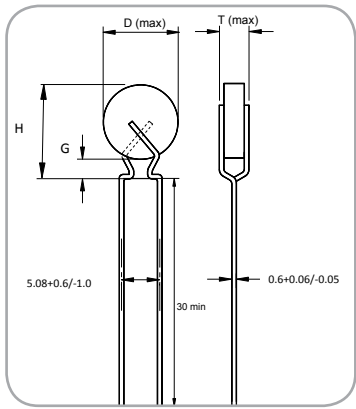
Pack quantities:

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

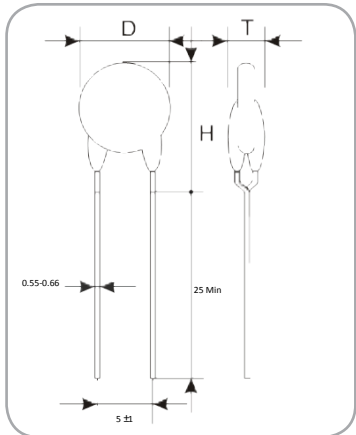
\*YM120D260N150

\*YM120D370N100

*Not available taped and reeled*



YM Drawing



YQS Drawing

## Electrical Specifications

### Maximum Operating Voltage

265V rms

### Switch Temperature

120°C nominal

### Tolerance on R<sub>25</sub>

±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 <sub>nt</sub> ) mA		Minimum Trip Current (I <sub>t</sub> ) mA		Maximum Overload Current (I <sub>mo</sub> ) A	Maximum Residual Current (I <sub>res</sub> ) 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	

**Amphenol**  
Advanced Sensors