



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



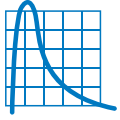
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# Type YM Series

## 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

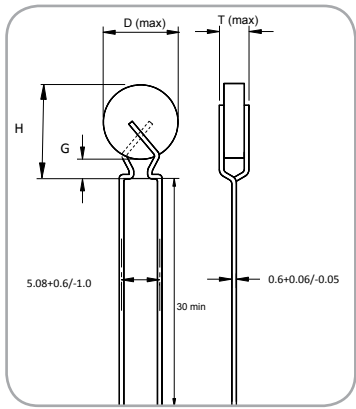
Pack quantities:

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

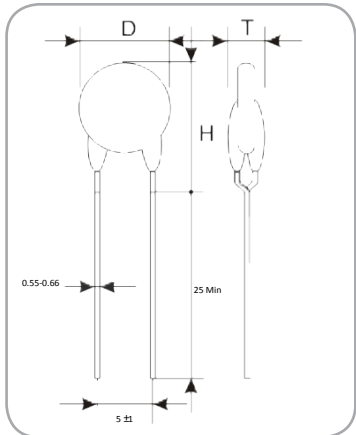
\*YM120D260N150

\*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						
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