

# ANTREX Electronics

Electronic Components Sourcing Information

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## Product Reference Information

**Part Number:** YQD120N0015  
**Manufacturer:** Amphenol Thermometrics  
**Package:** Radial, Disc  
**Availability:** Please confirm with sales

**Product Page:**

<https://antrexco.com/product/details/amphenol-thermometrics/yqd120n0015.html>

**Request a Quote:**

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Scan for product page

## Contact Information

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## Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

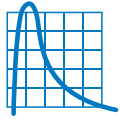
Secure sourcing support for OEM / EMS projects

**Note:**

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

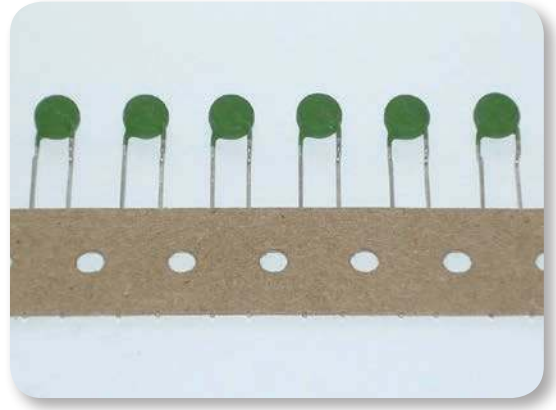
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T H E R M O M E T R I C S  
A C O M M I T M E N T T O E X C E L L E N C E

# Type YQ Series

Thermometrics  
RoHS-Compliant  
PTC Thermistors



## Features

- A range of radially-wired PTC disc thermistors with green silicone resin coating
- Designed for general purpose over-current, over-voltage and direct over-temperature protection
- Wide range of operating current and voltage levels
- Excellent stability
- Fail-safe operation
- Solid state
- High performance barium titanate ceramic
- Suitable for automatic PCB insertion insulated lead wires

**Amphenol**  
Advanced Sensors

# Packaging

All types in the YQ range are available loose-packed, as shown in the drawing. Devices are also available on bandolier (tape & reel): types with diameter  $A < 12\text{mm}$  comply with IEC 286-2. To identify the tape & reel packaging required, replace N in the product codes shown in the table as follows:

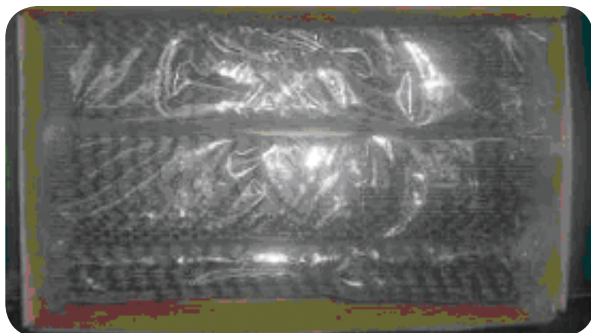
Bandoliered T

Loose-packed N

## Packing Method (Reference Only)

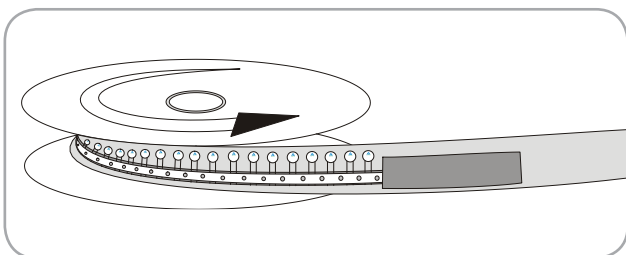
### Loose Pack (N)

|                                    |              |
|------------------------------------|--------------|
| $D \leq 5\text{ mm}$               | 2500 PCS/box |
| $5\text{mm} < D \leq 8\text{mm}$   | 2000 PCS/box |
| $8\text{mm} < D \leq 10\text{mm}$  | 1500 PCS/box |
| $10\text{mm} < D \leq 13\text{mm}$ | 750 PCS/box  |
| $D > 13\text{mm}$                  | 500 PCS/box  |

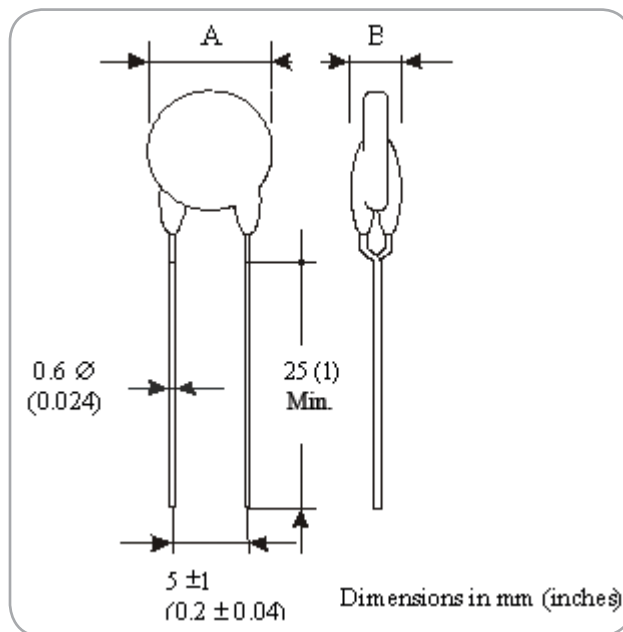


### Tape and Reel Pack (T)

|                                    |             |                         |
|------------------------------------|-------------|-------------------------|
| $D \leq 5\text{mm}$                | 1500PCS/box | Tape and reel pack form |
| $5\text{mm} < D \leq 8\text{mm}$   | 1000PCS/box | Tape and reel pack form |
| $8\text{mm} < D \leq 10\text{mm}$  | 750PCS/box  | Tape and reel pack form |
| $10\text{mm} < D \leq 13\text{mm}$ | 500PCS/box  | Tape and reel pack form |
| $D > 13\text{mm}$                  | 375 PCS/box | folding form            |



Tape and Reel Form



Type YQ Dimensions

## Type YQ Specifications

### Tolerance on R25

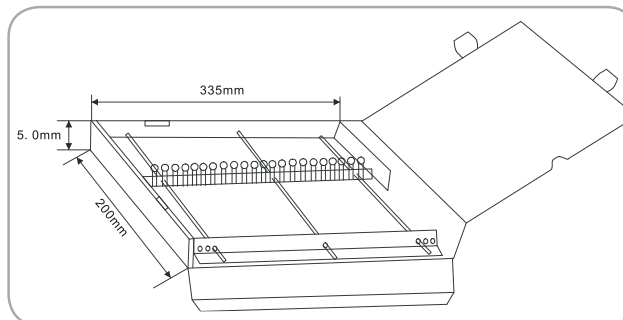
$\pm 25\%$

### Ambient Temperature Range

at maximum voltage  $0^\circ$  to  $+60^\circ\text{C}$   
at zero voltage  $-25^\circ$  to  $+125^\circ\text{C}$

### Lead Wire Material

Tin-coated copper Body coating  
Green Silicone resin



Folding Form

## Ordering Information

| Group                       | Code        | R25Ω | Int (A) | It (A) | Imo (A) | A max. |      | B max. |      |
|-----------------------------|-------------|------|---------|--------|---------|--------|------|--------|------|
|                             |             |      |         |        |         | mm     | inch | mm     | inch |
| 265Vrms<br>Tb=120°C         | YQD120N0006 | 6    | 0.39    | 0.78   | 3.1     | 17.5   | 0.69 | 5      | 0.2  |
|                             | YQD120N0010 | 10   | 0.25    | 0.5    | 1.8     | 13.5   | 0.53 | 5      | 0.2  |
|                             | YQD120N0015 | 15   | 0.18    | 0.35   | 1.2     | 11     | 0.43 | 5      | 0.2  |
|                             | YQD120N0025 | 25   | 0.13    | 0.25   | 0.8     | 9      | 0.35 | 5      | 0.2  |
|                             | YQD120N0045 | 45   | 0.105   | 0.2    | 0.8     | 9      | 0.35 | 5      | 0.2  |
|                             | YQD120N0055 | 55   | 0.09    | 0.18   | 0.8     | 9      | 0.35 | 5      | 0.2  |
|                             | YQD120N0070 | 70   | 0.065   | 0.13   | 0.3     | 6.5    | 0.26 | 5      | 0.2  |
|                             | YQD120N0120 | 120  | 0.035   | 0.08   | 0.3     | 6.5    | 0.26 | 5      | 0.2  |
| 265Vrms<br>Tb=100°C         | YQD100N0150 | 150  | 0.038   | 0.08   | 0.3     | 6.5    | 0.26 | 5      | 0.2  |
|                             | YQD100N0300 | 300  | 0.027   | 0.055  | 0.3     | 6.5    | 0.26 | 5      | 0.2  |
|                             | YQD100N0600 | 600  | 0.02    | 0.04   | 0.2     | 6.5    | 0.26 | 5      | 0.2  |
|                             | YQD100N1000 | 1000 | 0.015   | 0.03   | 0.2     | 6.5    | 0.26 | 5      | 0.2  |
| 265Vrms<br>Tb=80°C          | YQD080N0025 | 25   | 0.085   | 0.17   | 0.8     | 9      | 0.35 | 5      | 0.2  |
|                             | YQD080N0050 | 50   | 0.06    | 0.12   | 1       | 9      | 0.35 | 5      | 0.2  |
|                             | YQD080N0100 | 100  | 0.05    | 0.1    | 0.6     | 8      | 0.32 | 5      | 0.2  |
|                             | YQD080N0150 | 150  | 0.022   | 0.045  | 0.2     | 4.5    | 0.18 | 5      | 0.2  |
| 140Vrms<br>Tb=120°C         | YQC120N4.70 | 4.7  | 0.425   | 0.85   | 3.1     | 17.5   | 0.69 | 5      | 0.2  |
|                             | YQC120N5.60 | 5.6  | 0.4     | 0.8    | 3.1     | 17.5   | 0.69 | 5      | 0.2  |
|                             | YQC120N6.80 | 6.8  | 0.3     | 0.6    | 1.8     | 13.5   | 0.53 | 5      | 0.2  |
|                             | YQC120N0010 | 10   | 0.225   | 0.45   | 1.2     | 11     | 0.43 | 5      | 0.2  |
|                             | YQC120N0022 | 22   | 0.135   | 0.27   | 0.8     | 9      | 0.35 | 5      | 0.2  |
|                             | YQC120N0033 | 33   | 0.09    | 0.175  | 0.3     | 6.5    | 0.26 | 5      | 0.2  |
| 80Vdc<br>60Vrms<br>Tb=120°C | YQB120N2.30 | 2.3  | 0.55    | 1.1    | 8       | 17.5   | 0.69 | 4      | 0.16 |
|                             | YQB120N3.70 | 3.7  | 0.38    | 0.75   | 5.5     | 13.5   | 0.53 | 4      | 0.16 |
|                             | YQB120N5.60 | 5.6  | 0.3     | 0.6    | 4.3     | 11     | 0.43 | 4      | 0.16 |
|                             | YQB120N9.40 | 9.4  | 0.18    | 0.36   | 3       | 9      | 0.35 | 4      | 0.16 |
|                             | YQB120N0025 | 25   | 0.1     | 0.2    | 1       | 6.5    | 0.26 | 4      | 0.16 |
|                             | YQB120N0055 | 55   | 0.06    | 0.12   | 0.7     | 4      | 0.16 | 3.5    | 1.4  |
| 30Vrms<br>Tb=120°C          | YQA120N1.20 | 1.2  | 0.75    | 1.5    | 5.5     | 13.5   | 0.53 | 4      | 0.16 |
|                             | YQA120N1.8L | 1.8  | 0.5     | 1      | 5.5     | 13.5   | 0.53 | 4      | 0.16 |
|                             | YQA120N1.80 | 1.8  | 0.55    | 1      | 3       | 9      | 0.35 | 4      | 0.16 |
|                             | YQA120N4.2  | 4.2  | 0.28    | 0.56   | 3       | 9      | 0.35 | 4      | 0.16 |
|                             | YQA120N0010 | 10   | 0.17    | 0.34   | 1       | 6.5    | 0.26 | 4      | 0.16 |
| 18Vrms<br>Tb=120°C          | YQZ120N1.00 | 1    | 0.65    | 1.2    | 3       | 9      | 0.35 | 4      | 0.16 |
|                             | YQZ120N1.20 | 1.2  | 0.7     | 1.4    | 4.3     | 11     | 0.43 | 4      | 0.16 |
|                             | YQZ120N1.80 | 1.8  | 0.55    | 1      | 3       | 9      | 0.35 | 4      | 0.16 |
|                             | YQZ120N4.60 | 4.6  | 0.3     | 0.58   | 1       | 6.5    | 0.26 | 4      | 0.16 |
|                             | YQZ120N0013 | 13   | 0.14    | 0.28   | 0.7     | 4.5    | 0.18 | 4      | 0.16 |

V<sub>max</sub>

Maximum operating voltage

R<sub>25</sub>

Resistance at 25°C

T<sub>b</sub>

Switching temperature

I<sub>mo</sub>

Maximum overload current

I<sub>nt</sub>

Maximum current without tripping (25°C ambient)

I<sub>t</sub>

Minimum trip current (25°C ambient)

