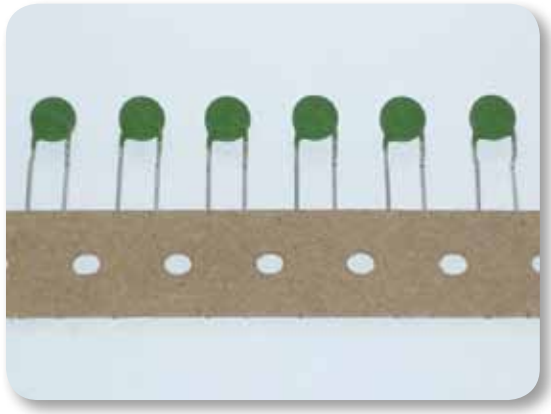
THERMOMETRICS
A COMMITMENT TO EXCELLENCE

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<12mm comply with IEC 286-2. To identify the tape & reel packaging required, replace N in the product codes shown in the table as follows:

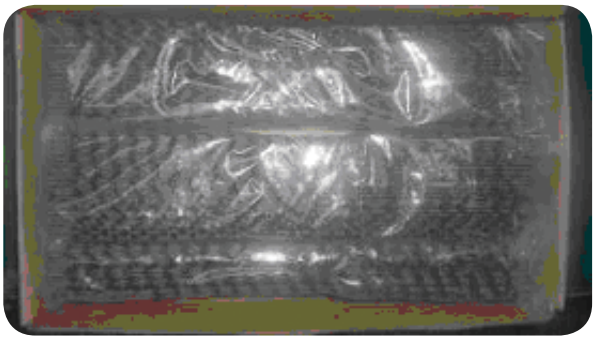
Bandoliered T

Loose-packed N

Packing Method (Reference Only)

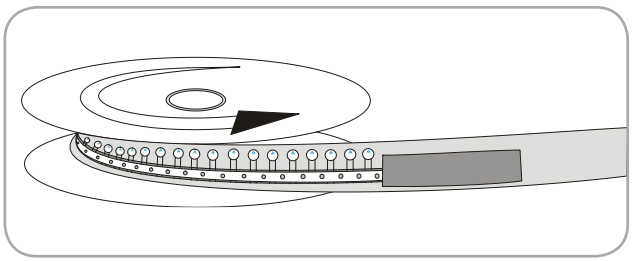
Loose pack (N)

D ≤ 5 mm	2500 PCS/box
5mm< D≤8mm	2000 PCS/box
8mm< D≤10mm	1500 PCS/box
10mm< D≤13mm	750 PCS/box
D> 13mm	500 PCS/box

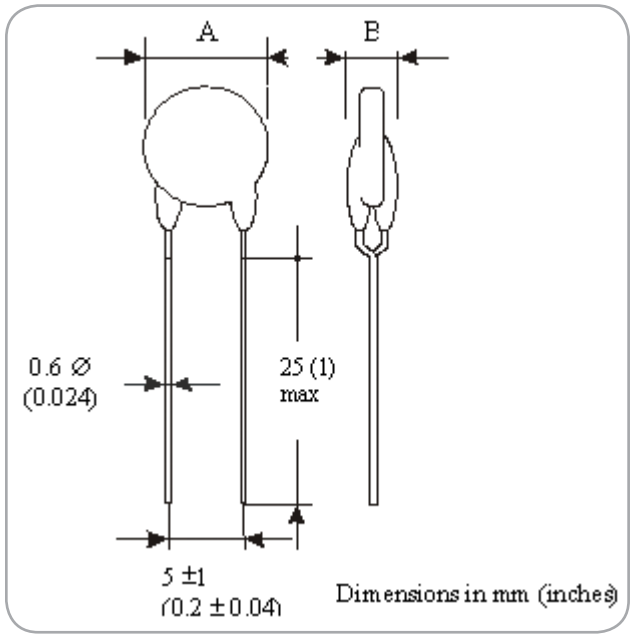


Tape and reel pack (T)

D ≤ 5mm	1500PCS/box	Tape and reel pack form
5mm< D≤8mm	1000PCS/box	Tape and reel pack form
8mm< D≤10mm	750PCS/box	Tape and reel pack form
10mm< D≤13mm	500PCS/box	Tape and reel pack form
D>13mm	375 PCS/box	folding form



Tape and Reel Form



Type TQ Dimensions

Type YQ Specifications

Tolerance on R25

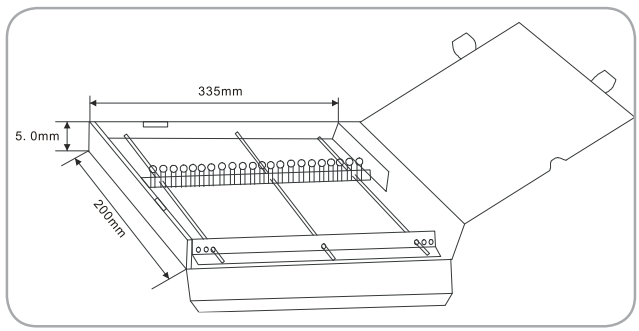
±25%

Ambient temperature range

at maximum voltage 0° to +60°C
at zero voltage -25° to +125°C

Lead wire material

Tin-coated copper Body coating
Green Silicone resin



Folding Form

Ordering Information

Group	Code	R25 (Ω)	Int (A)	It (A)	Imo (A)	A max		B max	
						mm	inch	mm	inch
265Vrms 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 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 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 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 60Vrms 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 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 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_{max}	Maximum operating voltage	R_{25}	Resistance at 25°C
T_b	Switching temperature	I_{mo}	Maximum overload current
I_{nt}	Maximum current without tripping (25°C ambient)	I_t	Minimum trip current (25°C ambient)

Amphenol

Advanced Sensors

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YQA120N0010 YQA120N0025 YQA120N1.8L YQB120N9.44 YQC120N0022 YQC120N0033 YQD080N0050 YQD080N0100 YQD100N0150 YQD100N0600 YQD100N1000 YQD100N150 YQD120N0055 YQZ120N0013 YQZ120N1.00 YQZ120N1.20 YQZ120N100 YQZ120N120 YQS5814 YQA120N1.20 YQS8067 YQS5893PTO YQS5855PTF YQS8121 YQS8066 YQD120T0025 YQS5745PTO YQS5853PTF YQS8069 YQS5749PTO YQS8070 YQD120N0015 YQS5751PTO YQS5898PTO YQS5934PTO YQS5917PTO YQS5750PTO YQS5925PTO YQS5930PTO YQS8119 YQS8123 YQS8122 YQS8120 YQS8103 YQS5846PTF YQS5868PTF YQS5878PTF YQS5838PTF YQS5856PTF YQS8065 YQS8068 YQS5746PTO YQS5744PTO YQB120N2.30 YQD120N0070 YQB120N9.40 YQA120N4.2 YQD120N0010 YQB120N3.70 YQD120N0045 YQD120N0006 YQD120N0025 YQZ120N1.80 YQB120N0025 YQB120N5.60 YQD080N0025 YQB120N0055 YQS5876PTF YQS5773PTA YQS5679 YQD120N0050 YQS5920POC YQS5814PTU YQS6000 YQR100R080 YQS5773PTE YQS5638 YQS5773PTD YQS6054 YQR100R060 YQS5637 YQS5940PTH YQR100R110 YQS5920 YQR100R090 YQR100R100 YQR100R070 YQS5941PTH