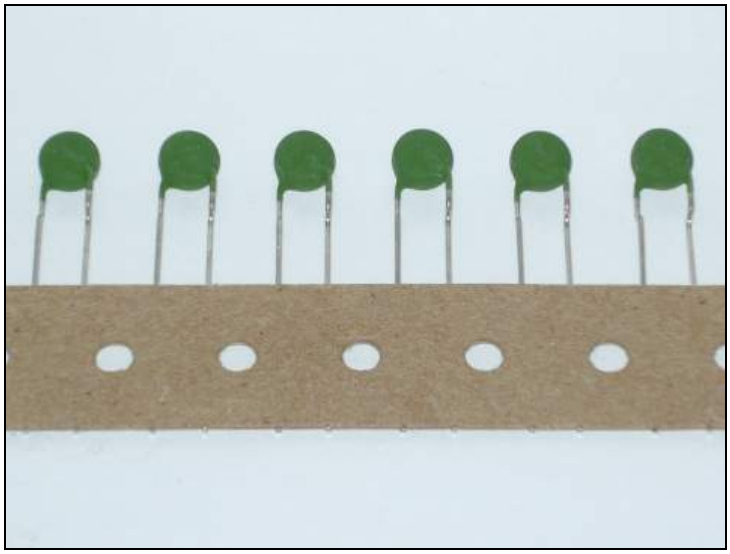
PTC THERMISTORS: TYPE YQ – RoHS Compliant

WIRED DISC

DESCRIPTION:

A range of radially-wired PTC disc thermistors with green silicone resin coating



FEATURES:

- Designed for general purpose over-current, over-voltage and direct over-temperature protection
- Wide range of operating current & voltage levels
- Excellent stability
- Fail-safe operation
- Solid state
- High performance barium titanate ceramic
- Suitable for automatic PCB insertion

PACKAGING:

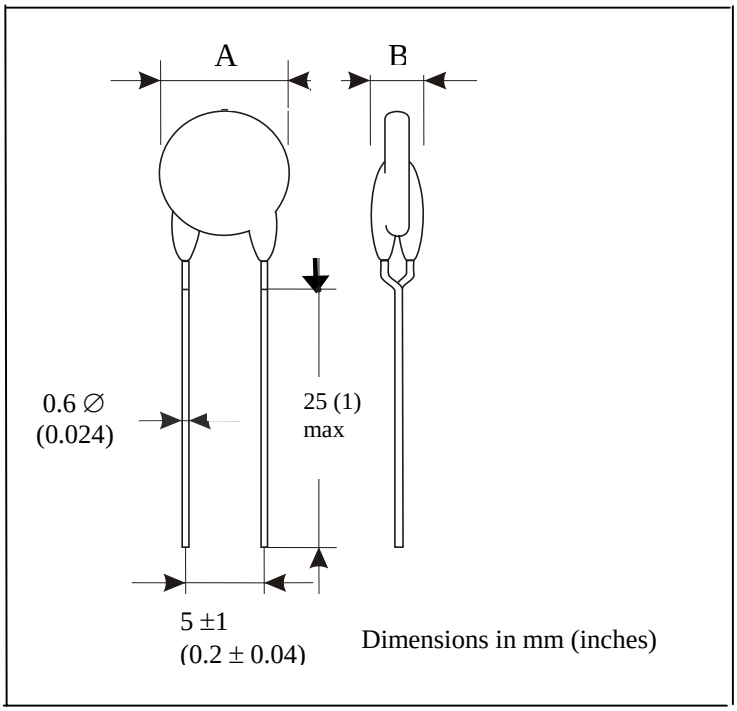
All types in the YQ range are available loose-packed, as shown in the drawing. Devices are also available on bandolier (tape & reel): types with diameter A<12mm comply with IEC 286-2.

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

Bandoliered ..... T
Loose-packed .....N

Pack quantities:

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



DATA:

Tolerance on R_{25} ..... ±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

GE SENSING
Crown Industrial Estate, Priorswood Road, Taunton, Somerset. TA2 8QY UK
Tel: +44 (0) 1823 335200 Fax: +44 (0) 1823 332637
www.gesensing.com

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WIRED DISC

Group	Code	R25 (Ω)	Int (A)	It (A)	Imo (A)	A max		B max	
						mm	inch	mm	inch
V_{max} = 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
V_{max} = 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
V_{max} = 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
V_{max} = 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
V_{max} = 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	0.16	3.5	0.14
V_{max} = 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
V_{max} = 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)

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