



NTC THERMISTORS: TYPE KE

DISC WITH RADIAL LEADS

DESCRIPTION:

The KE range of NTC disc thermistors is designed for use in temperature measurement, control and compensation applications, particularly where moderate power levels are expected to be dissipated in the thermistor.

DATA:

Resistance tolerance at 25°C

.....±5% or 10% for high resistance types

.....±10% for low resistance types

B value tolerance.....±3%

Maximum temperature.....125°C

Time constant.....30(±9) seconds

Dissipation factor.....9mW/°C

Rated dissipation at 25°C.....0.9W



	Resistance Code	R ₂₅ Ω	B _{25/85} K
Low Resistance Types	150	15	3000
	220	22	3100
	330	33	3200
	470	47	3300
	680	68	3400
	101	100	3450
	151	150	3550
	221	220	3650
	331	330	3750
	471	470	3850
High Resistance Types	681	680	3950
	102	1000	4000
	152	1500	4100
	222	2200	4150
	332	3300	4250
	472	4700	4300
	682	6800	4350
	103	10000	4400
	153	15000	4450
	223	22000	4500
	333	33000	4600
	473	47000	4650
	683	68000	4750
	104	100000	4850
	154	150000	4900

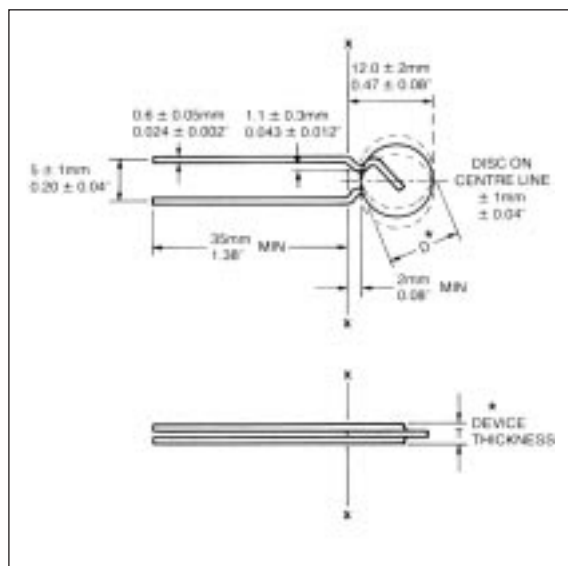
CODING:

K	NTC element
E	10mm diameter disc
D	Physical form D = 5mm spaced lead-wires, B = on bandolier,
47	Resistance value at 25°C
2	Resistance multiplier 1 = 10 ¹ 2 = 10 ² 3 = 10 ³ 4 = 10 ⁴
B	Finish B = unpainted, C = painted
Y	Resistance tolerance at 25°C Y = ±10% Z = ±5%



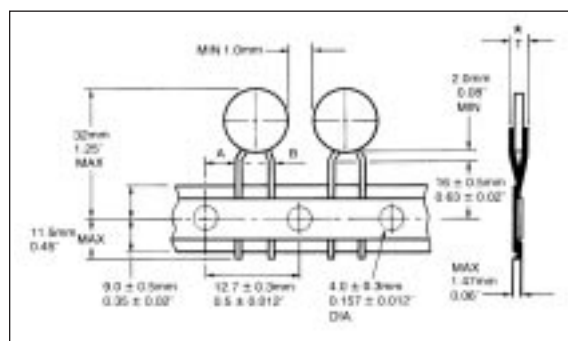
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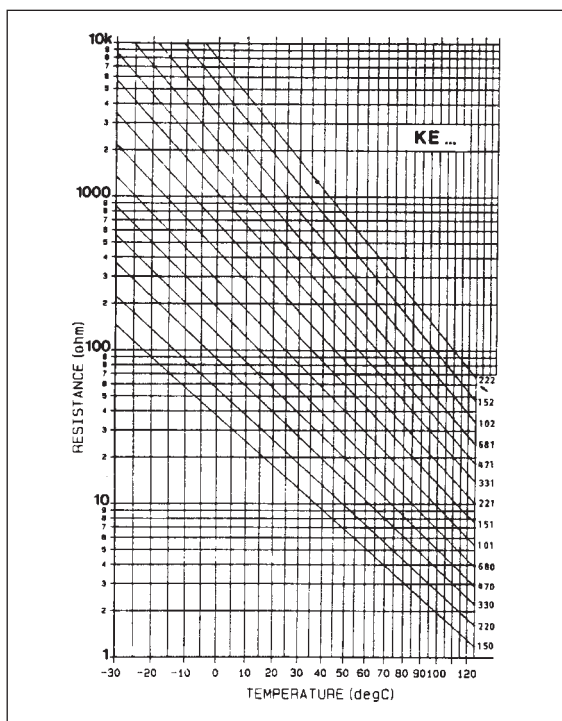
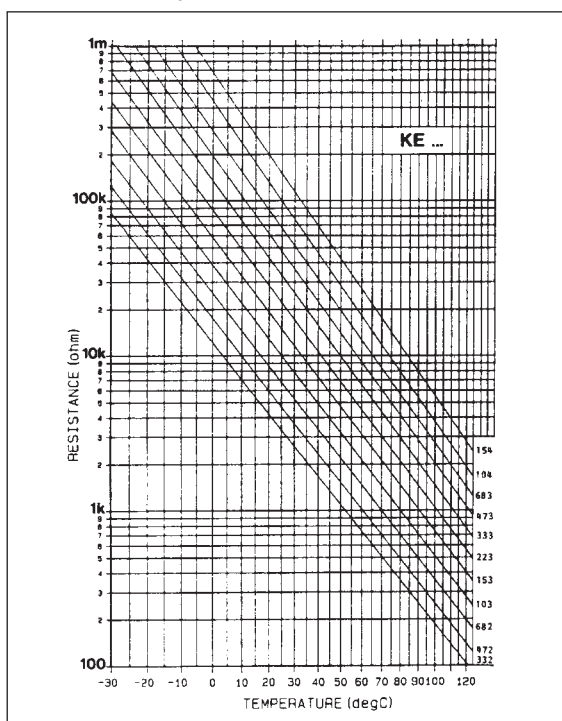
Finished KE thermistor showing details of kinked lead and position of disc with respect to the kink.

- 1 Dimensions marked* are suitable for gauging.
- 2 For painted devices the coating will not extend beyond seating line X-X.



- 1 Number of components per reel 2000 nominal.
- 2 Minimum "lead in" tape 10 index holes.
- 3 No more than 3 consecutive devices missing.
- 4 No more than 0.25% quantity missing.
- 5 Maximum thickness of any splice 1.6mm.
- 6 No splicing to obstruct index holes.
- 7 For painted discs the coating will not extend beyond seating line X-X.
- 8 Maximum cumulative tolerance per 20 pitches = $\pm 1\text{mm}$.
- 9 Dimensions marked* are suitable for gauging.

Resistance-Temperature Characteristics



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