



BOWTHORPE THERMISTORS

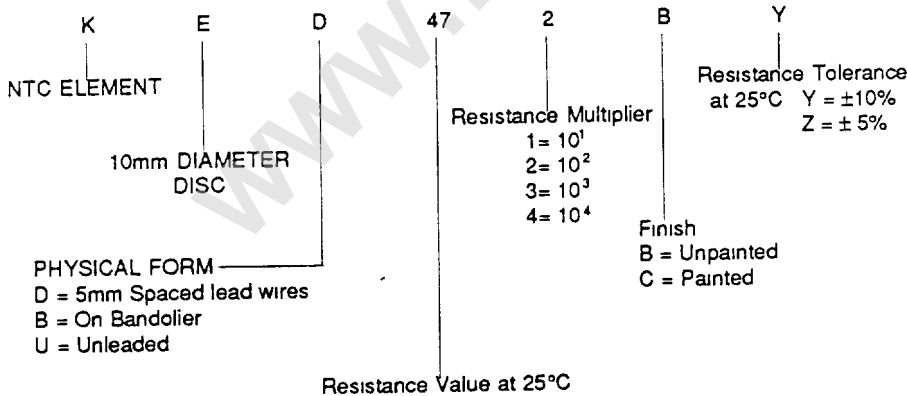
151-117
117 115
151-120

DESCRIPTION

The KE range of NTC Thermistors is designed for use in temperature compensation, measurement and control applications

	CODE	R25 Ω	B25-85 K
	150	15	3000
	220	22	3100
	330	33	3200
	470	47	3300
	680	68	3400
	101	100	3450
	151	150	3550
	221	220	3650
LOW RESISTANCE	331	330	3750
	471	470	3850
HIGH RESISTANCE	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

Example of Coding



NTC Thermistors

INDUSTRIAL/CONSUMER

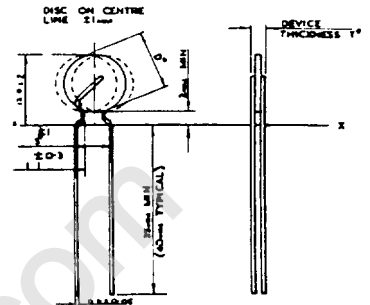
AUTOMOTIVE

TELECOMMUNICATIONS/DP

TYPE

KE

TYPE	Ø MAX	T MAX
KEB B	1.0	4.0
KEB C	1.0	4.5



Finished KED Thermistor showing details of kinked lead and positions of disc with respect to kink in lead

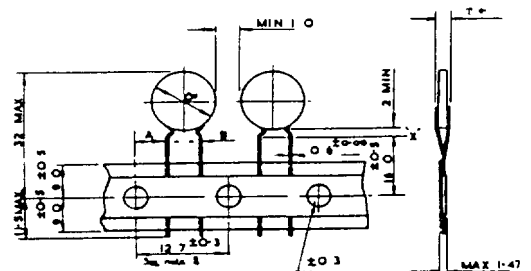
NOTE 1 Dimensions marked * are suitable for gauging

NOTE 2 For painted devices paint shall not extend beyond seating line x - x

Temperature Measurement & Control

Temperature Compensation

Surge Suppression - Time Delay



A	3.85 ± 0.7
B	5.0 ± 0.1

TYPE	Ø MAX	T MAX
KEB B	1.0	4.0
KEB C	1.0	4.5

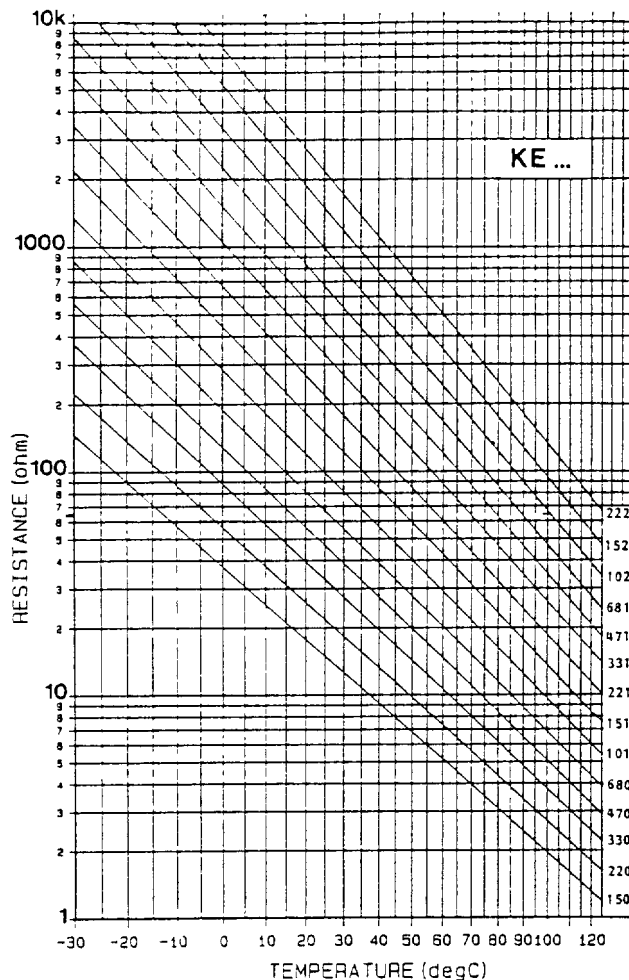
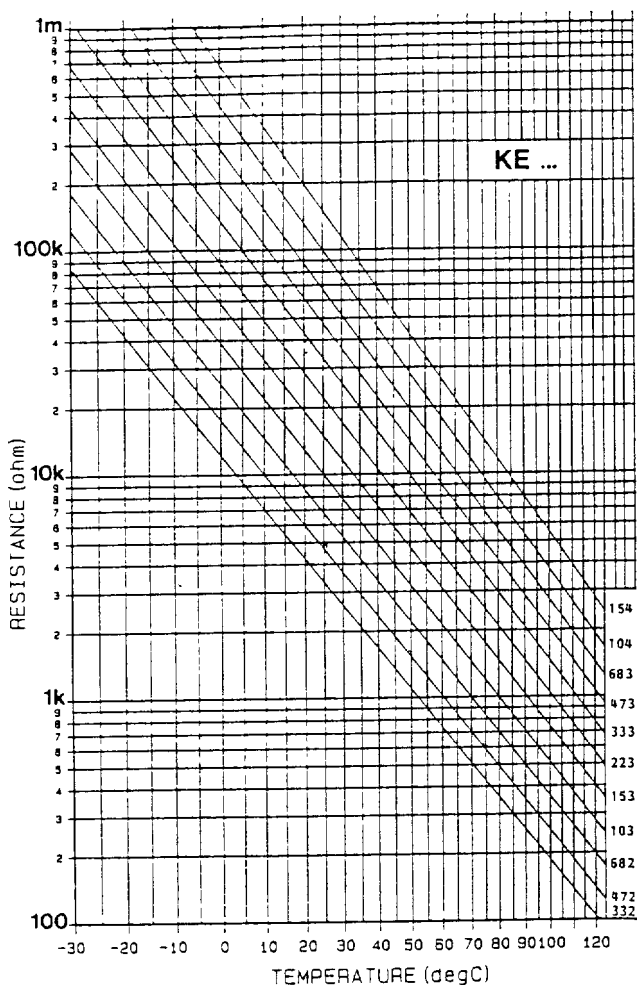
NOTES

- Qty components per reel 2000 Nom
- Min 'lead in' tape 10 index holes
- Not more than 3 consecutive devices missing.
- Not more than 0.25% qty missing.
- Max thickness on any splice 1.6mm
- No splicing to obstruct index holes
- For painted discs the coating will not extend beyond seating line X - X.
- Maximum cumulative tolerance per 20 pitches = ±1mm
- Dimensions marked * are suitable for gauging.

Data

Tolerance on resistance at 25°C	±5% or 10% for high resistance types ±10% for low resistance types
Tolerance on B value	±3%
Maximum Temperature	125°C
Time constant	30 (±9) seconds
Dissipation factor	9 mW/°C
Rated dissipation at 25 °C	0.9 W

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OPERATING:

Thermistors are designed to be intrinsically safe components provided they are operated within the rated voltages or currents and inside the recommended temperature range.

STORAGE :

The normal care required for electronic components should be exercised

DISPOSAL :

No special hazards are involved in disposal. Incineration of thermistors is not recommended due to the emission of toxic fumes from epoxy coated devices or the shattering of glass and/or ceramic with possible hazard from hot jagged material

PRODUCT SAFETY NOTES

Some of the thermistors in this range, when operated at or near maximum rated dissipation in a self-heat mode, may require applied voltages capable of causing electric shock

TEMPERATURE WARNING:

These devices are likely to attain a surface temperature in excess of 75°C which may cause burns if touched.

Performance figures and data quoted in this document are typical and must be specifically confirmed in writing by BOWTHORPE THERMISTORS before they become applicable to any particular order or contract. The company reserves the right to make alterations or amendments to the detailed specification at its discretion. The publication of information in this document does not imply freedom from patent or other protective rights of Bowthorpe Thermistors or others

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