

NTC Thermistors, Glass Encapsulated Miniature Bead



QUICK REFERENCE DATA					
PARAMETER	VALUE				
Resistance value at 25 °C	1 kΩ to 1 MΩ				
Tolerance on R25-value	±5%; ±10%				
B25/85-value	2075 to 4100 K				
Tolerance on B25/85-value	±5%				
Maximum dissipation at 55 °C	60 mW				
Response time; note 1	≈6 s				
Operating temperature range:					
at zero dissipation	−55 to +200 °C				
at maximum dissipation	0 to 55 °C				
Dielectric withstanding voltage (RMS)	min. 1500 V				
between terminals and glass envelope					
Insulation resistance between	min. 100 MΩ				
terminals and glass envelope at 100 V					
(DC)					
Mass	≈0.1 g				

Note

 Response time in silicone oil MS200/50. This is the time needed for the sensor to reach 63.2% of the total temperature difference when subjected to a temperature change from 25 °C in air to 85 °C in oil.

FEATURES

- Small diameter
- Quick response to changes in temperature
- · Very high long term stability
- · High temperature operation
- · Resistant to agressive environments

APPLICATIONS

Temperature measurement.

Bead thermistor with negative temperature coefficient, in a glass envelope with two tinned durnet (CuNiFe) wires. The device is non-flammable.

MARKING

The thermistors are marked with four coloured dots on the glass envelope; see Component Outline drawing and Electrical Data and Ordering Information table.

MOUNTING

By soldering in any position.

PACKAGING

The thermistors are packed in cardboard boxes; the smallest packaging quantity is 100 units.

ELECTRICAL DATA AND ORDERING INFORMATION									
R ₂₅ (kΩ)	B _{25/85} -VALUE	TC (%/K)	CATALOG NUMBER 2322 633 2		COLOUR CODE (see Component outline Drawing and note 1)				
			R ₂₅ ±5%	R ₂₅ ±10%	I	II	III		
1	2075 K ±5%	-2.3	3102	2102	brown	black	red		
2.2	2285 K ±5%	-2.6	3222	2222	red	red	red		
4.7	2485 K ±5%	-2.8	3472	2472	yellow	violet	red		
10	3750 K ±5%	-4.2	3103	2103	brown	black	orange		
22	3560 K ±5%	-4.0	3223	2223	red	red	orange		
47	3750 K ±5%	-4.2	3473	2473	yellow	violet	orange		
100	3900 K ±5%	-4.4	3104	2104	brown	black	yellow		
220	3860 K ±5%	-4.3	3224	2224	red	red	yellow		
470	3950 K ±5%	-4.5	3474	2474	yellow	violet	yellow		
1000	4100 K ±5%	-4.6	3105	2105	brown	black	green		

Note

- 1. Dependent upon R₂₅-tolerance, the dot IV is coloured as follows:
 - a) for $R_{25} \pm 5\%$, dot IV is coloured gold;
 - b) for R₂₅ ±10%, dot IV is coloured silver.
- 2. R₂₅-values, temperature coefficients, catalog numbers and coding.
- 3. The thermisters have a 12-digit catalog number starting with 2322 633 2. The subsequent 4 digits indicate the resistance value and tolerance.

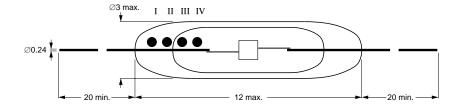
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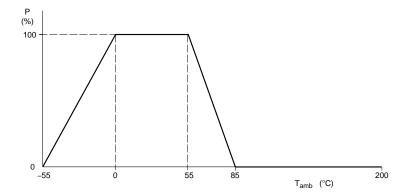


DIMENSIONS in millimeters

Component outline.



DERATING



Power derating curve.

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Datasheets for electronic components.