

NTC Thermistors, Screw Threaded Sensors



QUICK REFERENCE DATA	
PARAMETER	VALUE
Resistance value at 25 °C	2.2 kΩ to 470 kΩ
Tolerance on R ₂₅ -value	±5%
B _{25/85} -value	3740 to 4570 K
Dissipation factor; note 1	≈23 mW/K
Thermal time constant; note 1	≈7.5 s
Operating temperature range at:	
zero dissipation	-40 to +100 °C
maximum dissipation	0 to +55 °C
Mass	≈1.5 g

Note

1. Measured with screw mounted on an aluminium heatsink of 100 cm², thickness 1.5 mm, in still air at T_{amb} = +25 °C.
2. Other R₂₅ values based on 640 0 series are available upon request.
3. Other tolerances on R₂₅ are available upon request.

FEATURES

- Easy mounting
- Rugged construction

APPLICATIONS

Suitable for many applications, especially when a good insulation and/or a good thermal contact with the chassis is required.

Thermistor with negative temperature coefficient and two solid tinned copper leads.

The device is mounted in the head of aluminium screws size M4.

PACKAGING

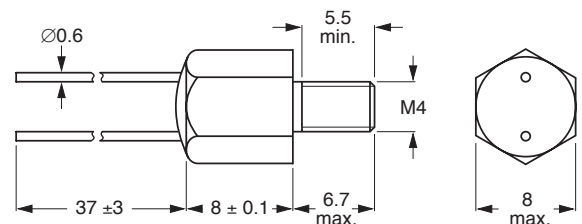
The thermistors are packed in cardboard boxes; the smallest packaging quantity is 100 units.

MARKING

The last 4 digits of the catalog number are printed on the stud in accordance with the information in Electrical Data and Ordering Information Table.

MOUNTING

By means of a washer and M4 nut supplied with the device. Applied torque shall not exceed 1.2 Nm. Leads to be soldered.

DIMENSIONS in millimeters


Component outline.

ELECTRICAL DATA AND ORDERING INFORMATION

R ₂₅ (kΩ)	B _{25/85} -VALUE	TC (%/K)	CATALOG NUMBER 2322 640 7....	
			R ₂₅ ±5%	
2.2	3977 K ±0.75%	-4.37	3222	
4.7	3977 K ±0.75%	-4.37	3472	
10	3977 K ±0.75%	-4.37	3103	
12	3740 K ±1.5%	-4.10	3123	
15	3740 K ±1.5%	-4.10	3153	
47	4090 K ±1.5%	-4.46	3473	
100	4190 K ±1.5%	-4.57	3104	
150	4370 K ±2.5%	-4.75	3154	
470	4570 K ±2%	-4.95	3474	

Note

R₂₅-values, temperature coefficients and catalog numbers.

The thermistors have a 12-digit catalog number starting with 2322 640 7. The subsequent 4 digits indicate the resistance value and tolerance.