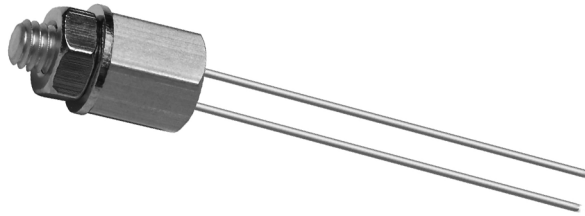


## NTC Thermistors, Screw Threaded Sensors



### FEATURES

- Easy mounting
- Rugged construction
- Old part number was 2322 640 7...
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

### APPLICATIONS

Suitable for many applications, especially when a good electrical insulation and 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.

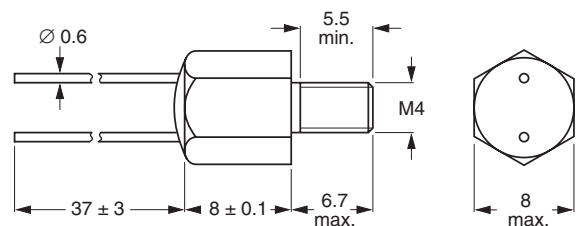
### MARKING

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 or crimped.

### DIMENSIONS in millimeters



Component outline

QUICK REFERENCE DATA	
PARAMETER	VALUE
Resistance value at 25 °C	2.2 kΩ to 470 kΩ
Tolerance on R <sub>25</sub> -value	± 5 %
B <sub>25/85</sub> -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
Min. dielectric withstanding voltage between terminals and Al. case	1500 V <sub>ac</sub> (1 s)
Insulation resistance between terminals and Al. case	min. 100 Mohm

#### Note

1. Measured with screw mounted on an aluminium heatsink of 100 cm<sup>2</sup>, thickness 1.5 mm, in still air at T<sub>amb</sub> = + 25 °C.
2. Other R<sub>25</sub> values based on 640 0 series are available upon request.
3. Other tolerances on R<sub>25</sub> are available upon request.
4. Insulated leads available upon request.

ELECTRICAL DATA AND ORDERING INFORMATION				
R <sub>25</sub> (kΩ)	B <sub>25/85</sub> -VALUE	TC (%/K)	12NC ORDERING CODE 2381 640 7...	SAP MATERIAL NO. NTCSCWE3...
2.2	3977 K ± 0.75 %	- 4.37	3222	222J
4.7	3977 K ± 0.75 %	- 4.37	3472	472J
10	3977 K ± 0.75 %	- 4.37	3103	103J
12	3740 K ± 1.5 %	- 4.10	3123	123J
15	3740 K ± 1.5 %	- 4.10	3153	153J
47	4090 K ± 1.5 %	- 4.46	3473	473J
100	4190 K ± 1.5 %	- 4.57	3104	104J
150	4370 K ± 2.5 %	- 4.75	3154	154J
470	4570 K ± 2 %	- 4.95	3474	474J

#### Note

R<sub>25</sub>-values, temperature coefficients and catalog numbers.

The thermistors have a 12-digit catalog number starting with 2381 640 7. The subsequent 4 digits indicate the resistance value and tolerance.



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