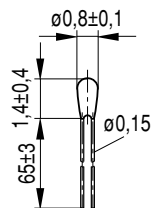


**Applications**

- Automotive electronics
- Industrial electronics
- Home appliances

**Features**

- Glass-encapsulated, heat-resistive and highly stable
- For temperature measurement up to 250 °C
- Fast response
- Small dimensions
- Leads: dumet wires (copper-clad FeNi)



TNT0401-4

 Dimensions  
in mm

**Options**

Leads: nickel-plated wires

**Delivery mode**

Bulk

Climatic category (IEC 60068-1)		55/250/56	
Max. power at 25 °C	$P_{25}$	18	mW
Resistance tolerance	$\Delta R_N/R_N$	$\pm 1\%, \pm 3\%, \pm 5\%$	
Rated temperature	$T_N$	25	°C
Dissipation factor (in air)	$\delta_{th}$	approx. 0,4	mW/K
Thermal cooling time constant (in air)	$\tau_c$	approx. 3,0	s
Heat capacity	$C_{th}$	approx. 1,3	mJ/K

$R_{25}$	No. of $R/T$ characteristic	$B_{25/85}$	$B_{0/100}$	$B_{25/100}$	Ordering code
$\Omega$		K	K	K	
5 k	8402	3480	$3450 \pm 1\%$	3497	B57540G0502+
10 k	8407	3480	$3450 \pm 1\%$	3497	B57540G0103+
20 k	8415	3992	$3970 \pm 1\%$	4006	B57540G0203+
30 k	8415	3992	$3970 \pm 1\%$	4006	B57540G0303+
50 k	8403	3992	$3970 \pm 1\%$	4006	B57540G0503+
100 k	8404	4066	$4036 \pm 1\%$	4085	B57540G0104+
230 k	8405	4240	$4537 \pm 2\%^1$	4264	B57540G0234+
1400 k	8406	4557	$5133 \pm 2\%^2$	4581	B57540G0145+

+: F000 for  $\Delta R_N/R_N = \pm 1\%$ ; F002 for  $\Delta R_N/R_N = \pm 1\%$  for nickel-plated wires  
 H000 for  $\Delta R_N/R_N = \pm 3\%$ ; H002 for  $\Delta R_N/R_N = \pm 3\%$  for nickel-plated wires  
 J000 for  $\Delta R_N/R_N = \pm 5\%$ ; J002 for  $\Delta R_N/R_N = \pm 5\%$  for nickel-plated wires

<sup>1)</sup>  $B_{100/200}$ 
<sup>2)</sup>  $B_{200/300}$

**Reliability data**

Test	Standard	Test conditions	$\Delta R_{25}/R_{25}$ (typical)	Remarks
Storage in dry heat	IEC 60068-2-2	Storage at upper category temperature T: 250 °C t: 1000 h	< 3 %	No visible damage
Storage in damp heat, steady state	IEC 60068-2-3	Temperature of air: 85 °C Relative humidity of air: 85 % Duration: 56 days	< 2 %	No visible damage
Rapid temperature cycling	IEC 60068-2-14	Lower test temperature: – 55 °C Upper test temperature: 200 °C Number of cycles: 1000	< 2 %	No visible damage