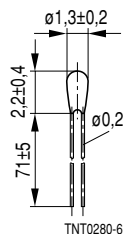


Applications

- Automotive electronics
- Industrial electronics
- Home appliances

Features

- Glass-encapsulated, heat-resistive and highly stable
- For temperature measurement up to 300 °C
- Fast response
- Small dimensions
- Leads: dumet wires (copper-clad FeNi)


 Dimensions
in mm

Options

Leads: nickel-plated wires

Delivery mode

Bulk

Climatic category (IEC 60068-1)		55/300/56	
Max. power at 25 °C	P_{25}	32	mW
Resistance tolerance	$\Delta R_N/R_N$	$\pm 1\%$, $\pm 3\%$, $\pm 5\%$	
Rated temperature	T_N	25	°C
Dissipation factor (in air)	δ_{th}	approx. 0,75	mW/K
Thermal cooling time constant (in air)	τ_c	approx. 7	s
Heat capacity	C_{th}	approx. 5	mJ/K

R_{25}	No. of R/T characteristic	$B_{25/85}$	$B_{0/100}$	$B_{25/100}$	Ordering code
Ω		K	K	K	
2 k	8401	3420	3390 ± 1 %	3436	B57550G0202+
5 k	8402	3480	3450 ± 1 %	3497	B57550G0502+
10 k	8407	3480	3450 ± 1 %	3497	B57550G0103+
20 k	8415	3992	3970 ± 1 %	4006	B57550G0203+
30 k	8415	3992	3970 ± 1 %	4006	B57550G0303+
50 k	8403	3992	3970 ± 1 %	4006	B57550G0503+
100 k	8404	4066	4036 ± 1 %	4085	B57550G0104+
230 k	8405	4240	4537 ± 1 % ¹⁾	4264	B57550G0234+
1400 k	8406	4557	5133 ± 2 % ²⁾	4581	B57550G0145+

+: 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

¹⁾ $B_{100/200}$
²⁾ $B_{200/300}$

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: 300 °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