

Temperature Measurement

B57871

Leaded Disks

S 871

Applications

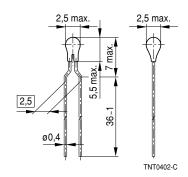
■ Temperature measurement

Features

- High measuring accurancy
- Cost-effective
- Rugged design, epoxy resin encapsulation
- Tinned copper leads
- Lead spacing 2,5 mm

Delivery mode

Bulk (standard), cardboard tape, reeled or in Ammo pack



Dimensions in mm Approx. weight 120 mg

Climatic category (IEC 60068-1)	55/155/56		
Max. power at 25 °C	P_{25}	60	mW
Resistance tolerance	$\Delta R_{N}/R_{N}$	\pm 1 %, \pm 3 %, \pm 5 %	
Rated temperature	T_{N}	25	°C
B value tolerance	$\Delta B/B$	± 1 %	
Dissipation factor (in air)	δ_{th}	approx. 3,8	mW/K
Thermal cooling time constant (in air)	$ au_{ extsf{c}}$	approx. 7,5	s
Heat capacity	C_{th}	approx. 28,5	mJ/K

R ₂₅	No. of R/T	B _{25/100}	Ordering code
	characteristic		
Ω		K	
2,1 k	1008	3560	B57871S0212+000
10 k	8016	3988	B57871S0103+001
10 k	2908	3460	B57871S0103+002
10 k	2001	3920	B57871S0103+003
12 k	2901	3760	B57871S0123+000
30 k	8018	3964	B57871S0303+000

+: F for
$$\Delta R_{\rm N}/R_{\rm N}=\pm 1$$
 %

H for
$$\Delta R_{\rm N}/R_{\rm N}=\pm3$$
 %

J for
$$\Delta R_{\rm N}/R_{\rm N}=\pm 5$$
 %



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Reliability data

Test	Standard	Test conditions	$\Delta R_{25}/R_{25}$ (typ.)	Remarks
Storage in	IEC	Storage at upper category	< 2 %	No visible
dry heat	60068-2-2	temperature <i>T</i> : 155 °C <i>t</i> : 1000 h		damage
Storage in damp	IEC	Temperature of air: 40 °C	< 1 %	No visible
heat, steady state	60068-2-3	Relative humidity of air: 93 % Duration: 56 days		damage
Rapid temperature cycling	IEC 60068-2-14	Lower test temperature: - 55 °C Upper test temperature: 155 °C Number of cycles: 100	< 2 %	No visible damage
Endurance		P _{max} : 450 mW t: 1000 h	< 3 %	No visible damage
Long-term stability (empirical value)		Temperature: 70 °C t: 10 000 h	< 3 %	No visible damage

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