


**Applications**

- Temperature measurement and compensation in
  - hybrid circuits
  - data systems
  - telecom systems
  - automotive electronics

**Features**

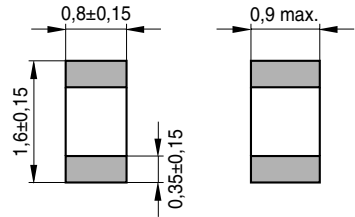
- Silver palladium termination (AgPd)
- Cost-effective
- Suitable for wave and reflow soldering

**Options**

Alternative resistance ratings and resistance tolerance  
< 5% available on request

**Delivery mode**

Cardboard tape, 180-mm reel, PU: 4000 pcs



■ Termination

TNT0396-Y

Dimensions in mm  
Approx. weight 6 mg

Climatic category (IEC 60068-1)		55/125/21	
Max. power at 25 °C (on PCB)	$P_{25}$	180	mW
Resistance tolerance	$\Delta R_N/R_N$	$\pm 5\%, \pm 10\%, \pm 20\%$	
Rated temperature	$T_N$	25	°C
B value tolerance	$\Delta B/B$	$\pm 3\%$	
Dissipation factor (on PCB)	$\delta_{th}^{(1)}$	approx. 3	mW/K
Thermal cooling time constant (on PCB)	$\tau_c^{(1)}$	approx. 4	s
Heat capacity	$C_{th}^{(1)}$	approx. 12	mJ/K

$R_{25}$	No. of R/T characteristic	$B_{25/50}$	$B_{25/85}$	$B_{25/100}$	Ordering code
$\Omega$		K	K	K	
10 k	1010	3470	3510	3530	B57619C0103+060
22 k	1008	3480	3550	3560	B57619C0223+060
47 k	2001	3860	3890	3920	B57619C0473+060

- +: J for  $\Delta R_N/R_N = \pm 5\%$
- K for  $\Delta R_N/R_N = \pm 10\%$
- M for  $\Delta R_N/R_N = \pm 20\%$

1) Depends on mounting situation


**Reliability data**

SMD NTC thermistors are tested in accordance with IEC 60068. The parts are mounted on a standardized PCB in accordance with IEC 60539-1.

Test	Standard	Test conditions	$\Delta R_{25}/R_{25}$ (typical)	Remarks
Storage in dry heat	IEC 60068-2-2 JIS C 0021	Storage at upper category temperature T: (125 ± 2) °C t: 1000 h	< 3 %	
Storage in damp heat, steady state	IEC 60068-2-3 JIS C 0022	Temperature of air: (40 ± 2) °C Relative humidity of air: (93 +2/-3) % Duration: 21 days	< 3 %	No visible damage
Rapid temperature cycling	IEC 60068-2-14 JIS C 0025	Lower test temperature: - 55 °C Upper test temperature: 125 °C Number of cycles: 10	< 3 %	
Endurance		$P_{\max}$ : 180 mW T: (65 ± 2) °C t: 1000 h	< 5 %	
Solderability	IEC 60068-2-58 JIS C 0054	Solderability: (215 ± 3) °C / (3 ± 0,3) s (235 ± 5) °C / (2 ± 0,2) s  Resistance to soldering heat: (260 ± 5) °C / (10 ± 1) s		95 % of terminations wetted
Resistance drift after soldering		Reflow soldering profile Wave soldering profile	< 5 %	

**Herausgegeben von EPCOS AG**

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