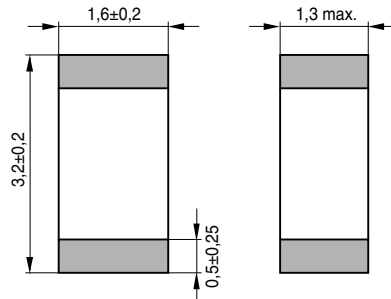



**Applications**

- 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



Termination

TNT0398-F

Dimensions in mm/Approx. weight 18 mg

**Options**

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

**Delivery mode**

Blister tape, 180-mm reel, PU: 4000 or 2000 pcs, depending on chip thickness

Climatic category (IEC 60068-1)		55/125/21	
Max. power at 25 °C (on PCB)	$P_{25}$	300	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. 5	mW/K
Thermal cooling time constant (on PCB)	$\tau_c^{(1)}$	approx. 10	s
Heat capacity	$C_{th}^{(1)}$	approx. 50	mJ/K

$R_{25}$	No. of R/T characteristic	$B_{25/50}$	$B_{25/85}$	$B_{25/100}$	Ordering code
$\Omega$		K	K	K	
2,2 k	1308	3010	3040	3060	B57621C0222+062
3,3 k	1309	3430	3500	3520	B57621C0332+062
4,7 k	1309	3430	3500	3520	B57621C0472+062
10 k	1010	3470	3510	3530	B57621C0103+062
15 k	1008	3480	3550	3560	B57621C0153+062
22 k	1008	3480	3550	3560	B57621C0223+062
33 k	2003	3930	3960	3980	B57621C0333+062
47 k	2001	3860	3890	3920	B57621C0473+062
68 k	2001	3860	3890	3920	B57621C0683+062

- +: 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


**Temperature Measurement**
**B57621**
**SMD NTC Thermistors with Silver Palladium Termination, Size 1206**
**C 621**


$R_{25}$	No. of $R/T$ characteristic	$B_{25/50}$	$B_{25/85}$	$B_{25/100}$	Ordering code
$\Omega$		K	K	K	
100 k	4901	3870	3930	3950	B57621C0104+062
150 k	2903	4120	4190	4200	B57621C0154+162
220 k	2903	4120	4190	4200	B57621C0224+062
330 k	1014	4090	4210	4250	B57621C0334+062
470 k	1014	4090	4210	4250	B57621C0474+062

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

**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 $T: (125 \pm 2)^\circ\text{C}$ $t: 1000\text{ h}$	< 3 %	
Storage in damp heat, steady state	IEC 60068-2-3 JIS C 0022	Temperature of air: $(40 \pm 2)^\circ\text{C}$ 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: $-55^\circ\text{C}$ Upper test temperature: $125^\circ\text{C}$ Number of cycles: 10	< 3 %	
Endurance		$P_{\text{max}}: 300\text{ mW}$ $T: (65 \pm 2)^\circ\text{C}$ $t: 1000\text{ h}$	< 5 %	
Solderability	IEC 60068-2-58 JIS C 0054	Solderability: $(215 \pm 3)^\circ\text{C} / (3 \pm 0,3)\text{ s}$ $(235 \pm 5)^\circ\text{C} / (2 \pm 0,2)\text{ s}$  Resistance to soldering heat: $(260 \pm 5)^\circ\text{C} / (10 \pm 1)\text{ s}$		95 % of terminations wetted
Resistance drift after soldering		Reflow soldering profile Wave soldering profile	< 5 %	

zuholen.

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**☎ ++49 89 636 09, FAX (0 89) 636-2 26 89**

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