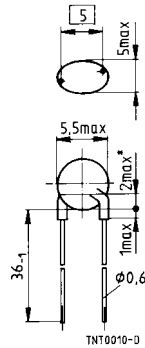


## Applications

- Temperature compensation
- Temperature measurement
- Temperature control

## Features

- Wide resistance range
- Cost-effective
- Lacquer-coated thermistor disk
- Tinned copper leads
- Marked with resistance and tolerance
- Available on tape (PU: 1500 pcs)



\*May be free of lacquer

Dimensions in mm  
Approx. weight 0,4 g

Climatic category (IEC 68-1)		55/125/21	
Max. power at 25 °C	$P_{25}$	450	mW
Resistance tolerance	$\Delta R/R_N$	$\pm 5\%, \pm 10\%$	
Rated temperature	$T_N$	25	°C
B value tolerance	$\Delta B/B$	$\pm 3\%$	
Dissipation factor (in air)	$\delta_{th}$	approx. 7,5	mW/K
Thermal cooling time constant (in air)	$\tau_c$	approx. 20	s
Heat capacity	$C_{th}$	approx. 150	mJ/K

Type	$R_{25}$ Ω	No. of R/T characteristic	$B_{25/100}$ K	Ordering code
K 164/15/+	15	1203	2900	B57164-K150+
K 164/22/+	22	1203	2900	B57164-K220+
K 164/33/+	33	1203	2900	B57164-K330+
K 164/47/+	47	1302	3000	B57164-K470+
K 164/68/+	68	1303	3050	B57164-K680+
K 164/100/+	100	1305	3200	B57164-K101+
K 164/150/+	150	1305	3200	B57164-K151+
K 164/220/+	220	1305	3200	B57164-K221+
K 164/330/+	330	1306	3450	B57164-K331+
K 164/470/+	470	1306	3450	B57164-K471+

# B57164

## K 164

Type	$R_{25}$ $\Omega$	No. of R/T characteristic	$B_{25/100}$ K	Ordering code
K 164/1 k/+	1 k	1011	3730	B57164-K102+
K 164/1,5 k/+	1,5 k	1013	3900	B57164-K152+
K 164/2,2 k/+	2,2 k	1013	3900	B57164-K222+
K 164/3,3 k/+	3,3 k	4001	3950	B57164-K332+
K 164/4,7 k/+	4,7 k	4001	3950	B57164-K472+
K 164/6,8 k/+	6,8 k	2903	4200	B57164-K682+
K 164/10 k/+	10 k	2904	4300	B57164-K103+
K 164/15 k/+	15 k	1014	4250	B57164-K153+
K 164/22 k/+	22 k	1012	4300	B57164-K223+
K 164/33 k/+	33 k	1012	4300	B57164-K333+
K 164/47 k/+	47 k	4003	4450	B57164-K473+
K 164/68 k/+	68 k	2005	4600	B57164-K683+
K 164/100 k/+	100 k	2005	4600	B57164-K104+
K 164/150 k/+	150 k	2005	4600	B57164-K154+
K 164/220 k/+	220 k	2007	4830	B57164-K224+
K 164/330 k/+	330 k	2006	5000	B57164-K334+
K 164/470 k/+	470 k	2006	5000	B57164-K474+

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

### Reliability data

Test	Standard	Test conditions	$\Delta R_{25}/R_{25}$ (typ.)	Remarks
Storage in dry heat	IEC 60068-2-2	Storage at upper category temperature $T: 125\text{ }^\circ\text{C}$ $t: 1000\text{ h}$	< 3 %	No visible damage
Storage in damp heat, steady state	IEC 60068-2-3	Temperature of air: $40\text{ }^\circ\text{C}$ Relative humidity of air: 93 % Duration: 21 days	< 3 %	No visible damage
Rapid temperature cycling	IEC 60068-2-14	Lower test temperature: $-55\text{ }^\circ\text{C}$ Upper test temperature: $125\text{ }^\circ\text{C}$ Number of cycles: 10	< 3 %	No visible damage
Endurance		$P_{\max}$ : 450 mW Duration: 1000 h	< 3 %	No visible damage
Long-term stability (empirical value)		Temperature: $125\text{ }^\circ\text{C}$ Duration: 10 000 h	< 5 %	No visible damage