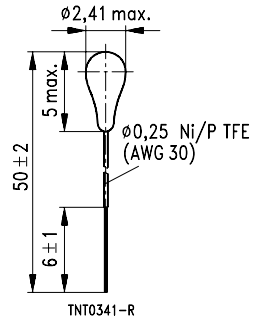


## Applications

- Heating systems
- Industrial electronics
- Automotive electronics

## Features

- Fast response
- High measuring accuracy
- Different tolerances available
- Epoxy resin encapsulation
- PTFE-insulated leads of silver plated nickel wire, AWG 30



## Options

Non-standard lead lengths

Dimensions in mm  
Approx. weight 60 mg

Climatic category (IEC 68-1)		55/155/56	
Max. power at 25 °C	$P_{25}$	60	mW
Resistance tolerance	$\Delta R/R_N$	$\pm 1\%, \pm 3\%, \pm 5\%$	
Rated temperature	$T_N$	25	°C
B value tolerance	$\Delta B/B$	$\pm 1\%$	
Dissipation factor (in air)	$\delta_{th}$	approx. 1,5	mW/K
Thermal cooling time constant (in air)	$\tau_c$	approx. 15	s
Heat capacity	$C_{th}$	approx. 22,5	mJ/K

Type	$R_{25}$ Ω	No. of R/T characteristic	$B_{25/100}$ K	Ordering code
S 861/2 k/+ 40	2 k	1008	3560	B57861-S202++40
S 861/3 k/+ 40	3 k	8016	3988	B57861-S302++40
S 861/5 k/+ 40	5 k	8016	3988	B57861-S502++40
S 861/10 k/+ 40	10 k	8016	3988	B57861-S103++40
S 861/30 k/+ 40	30 k	8018	3964	B57861-S303++40
S 861/50 k/+ 40	50 k	2901	3760	B57861-S503++40
S 861/100 k/+ 40	100 k	2014	4540	B57861-S104++40

- +: F for  $\Delta R/R_N = \pm 1\%$   
 H for  $\Delta R/R_N = \pm 3\%$   
 J for  $\Delta R/R_N = \pm 5\%$

**B57861**  
**S 861**

**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: 155 °C t: 1000 h	< 1 %/ < 2 % <sup>1)</sup>	No visible damage
Storage in damp heat, steady state	IEC 60068-2-3	Temperature of air: 40 °C Relative humidity of air: 93 % Duration: 56 days	< 1 %	No visible damage
Rapid temperature cycling	IEC 60068-2-14	Lower test temperature: – 55 °C Upper test temperature: 155 °C Number of cycles: 10	< 0,5 %	No visible damage
Long-term stability (empirical value)		Temperature: + 70 °C Duration: 10 000 h	< 2 %	No visible damage

1) For B57861-S302+40

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