

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

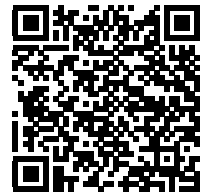
Part Number: B57236S0509L002
Manufacturer: EPCOS - TDK Electronics
Package: Bulk
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/epcos-tdk-electronics/b57236s0509l002.html>

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Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

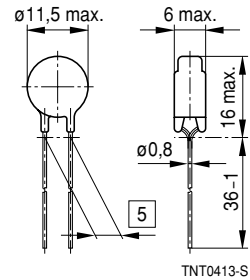
The original manufacturer datasheet follows from the next page.

Applications

- Switch-mode power supplies

Features

- Close resistance tolerance, improved insulation voltage
- Useable in series connections up to 265 V_{rms}
- Coated thermistor disk
- Kinked leads of tinned copper wire
- Wide resistance range
- UL approval (E69802)



TNT0413-S

Delivery mode

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

Dimensions in mm
Approx. weight 1,7 g

Climatic category (IEC 60068-1)		55/170/56	
Max. power at 25 °C	$P_{\max}$	2,4	W
Resistance tolerance	$\Delta R_N/R_N$	$\pm 15\%$	
Rated temperature	T_N	25	°C
B value tolerance	$\Delta B/B$	$\pm 3\%$	
Dissipation factor (in air)	δ_{th}	approx. 14	mW/K
Thermal cooling time constant (in air)	τ_c	approx. 50	s
Heat capacity	C_{th}	approx. 700	mJ/K
Test voltage ($t = 1$ s)	V_T	1000	VDC

R_{25}	$I_{\max}$ (0 ... 65 °C)	No. of R/T char- acteristic	$B_{25/100}$	$C_T^{(1)}$ 230 V	$C_T^{(1)}$ 110 V	Parameters for $R(I)^{(1)}$		Ordering code
Ω	A		K	μF	μF	k	n	
2,5	5,5	1201	2700	200	800	0,621	- 1,27	B57236S0259L002
3,0	5,0	1202	2800	300	1200	0,80	- 1,31	B57236S0309L002
5,0	4,5	1202	2800	300	1200	0,761	- 1,30	B57236S0509L002
8,0	3,7	1203	2900	300	1200	1,11	- 1,34	B57236S0809L002

1) For details on the capacitance C_T as well as on the parameters k and n refer to "Application Notes", pages 40–42.

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 $T: 170\text{ }^{\circ}\text{C}$ $t: 1000\text{ h}$	< 10 %	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	< 5 %	No visible damage
Rapid temperature cycling	IEC 60068-2-14	Lower test temperature: $-55\text{ }^{\circ}\text{C}$ Upper test temperature: $170\text{ }^{\circ}\text{C}$ Number of cycles: 10	< 10 %	No visible damage
Endurance		$I = I_{\max}$ $t: 1000\text{ h}$	< 10 %	No visible damage
Cyclic endurance		$I = I_{\max}$, 1000 cycles On-time = 1 min Cooling time = 6 min	< 10 %	No visible damage
Transient load		Capacitance = C_T Number of cycles: 1000	< 5 %	No visible damage

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