

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: B88069X5980T502
Manufacturer: TDK
Package: Tape & Reel (TR)
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/tdk/b88069x5980t502.html>

Request a Quote:

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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.



Switching spark gap

SSG with lead wires

Series/Type:	FS08X-1JGS
Ordering code:	B88069X5980T502
Version/Date:	Issue 07 / 2012-10-05

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Features

- Extremely long life time
- Stable performance over life
- Insensitive performance against variations in temperature
- Very low switching losses
- Very short breakdown time
- High reliability due to robust design
- RoHS compatibility

Applications

- Ignition circuits
- High voltage switch

Electrical specifications

Nominal breakdown voltage V_N	850	V
Initial values ²⁾		
Static breakdown voltage V_S ¹⁾		
First ignition value $V_{S, FTE}$ after 24 hours in darkness	≤ 1000	V
Following ignition values $V_{S, FIV}$	748 ... 952	V
Electrical life time ³⁾		
Breakdown voltage V_B		
First ignition value $V_{B, FTE}$ after 24 hours in darkness	≤ 1050	V
Ignition time t_i at V_0 during life	≤ 150	ms
Following ignition values $V_{B, FIV}$	722 ... 978	V
Switching operations		
at -40°C	40 000	Ignitions
at $+25; 125; 150^\circ\text{C}$	200 000	Ignitions
Test circuit parameters		
Open circuit voltage V_0	1050	V
Loading resistance R	68	k Ω
Discharge capacitance C	100	nF
Inductance L	0.4	μH
Discharge peak current I_P , 8 half cycles, 850 V	650	A
General technical data		
Insulation resistance at 100 V	> 100	M Ω
Early ignition values below 722 V	≤ 1	%
Breakdown time	≤ 50	ns
Maximum switching frequency	400	Hz
Maximum loading current	50	mA
Weight	~ 2	g
Marking, blue positive	EPCOS 800 WWY O 800 - Nominal voltage WW - Calendar week of production Y - Year of production O - Non radioactive	

Remarks on next page

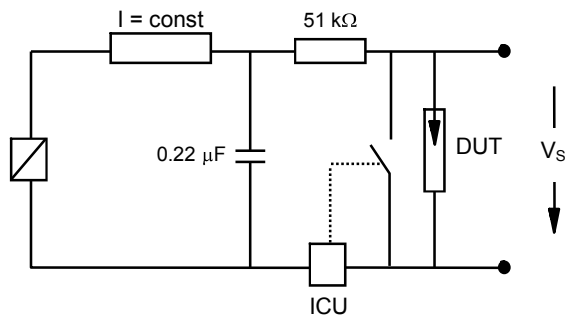
PPD AB PD / PPD AB PM

Issue 07 / 2012-10-05

- 1) At delivery AQL 0,65 level II, DIN ISO 2859
- 2) Test circuits, fig. 1 and 2
- 3) Test circuits, fig. 3 and 4

Test circuits

Fig. 1: QC test circuit (100% outgoing inspection)



DUT device under test
 ICU ignition control unit (sensitivity 10 ... 30 μ A)
 Discharge current 10 ... 20 mA

Fig. 2: Explanation of measurands

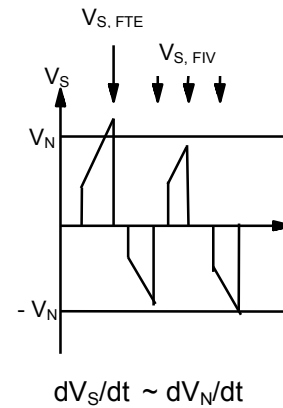


Fig. 3: QC test circuit (sampling inspection at 25 °C)

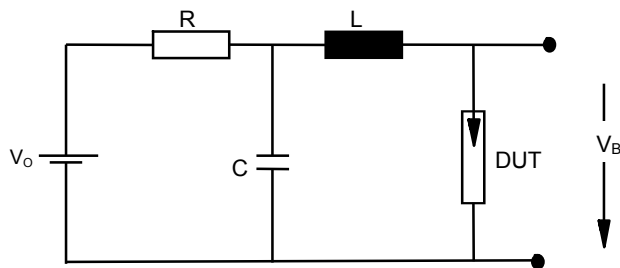
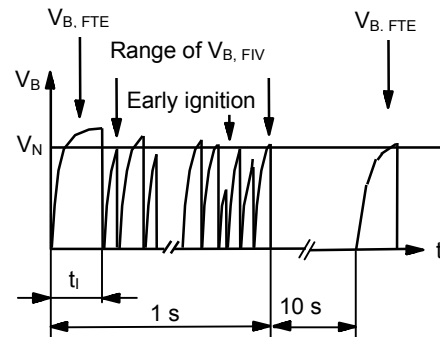
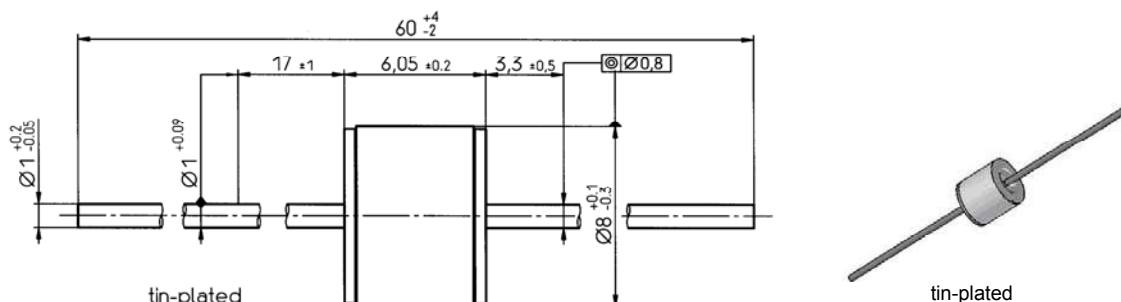
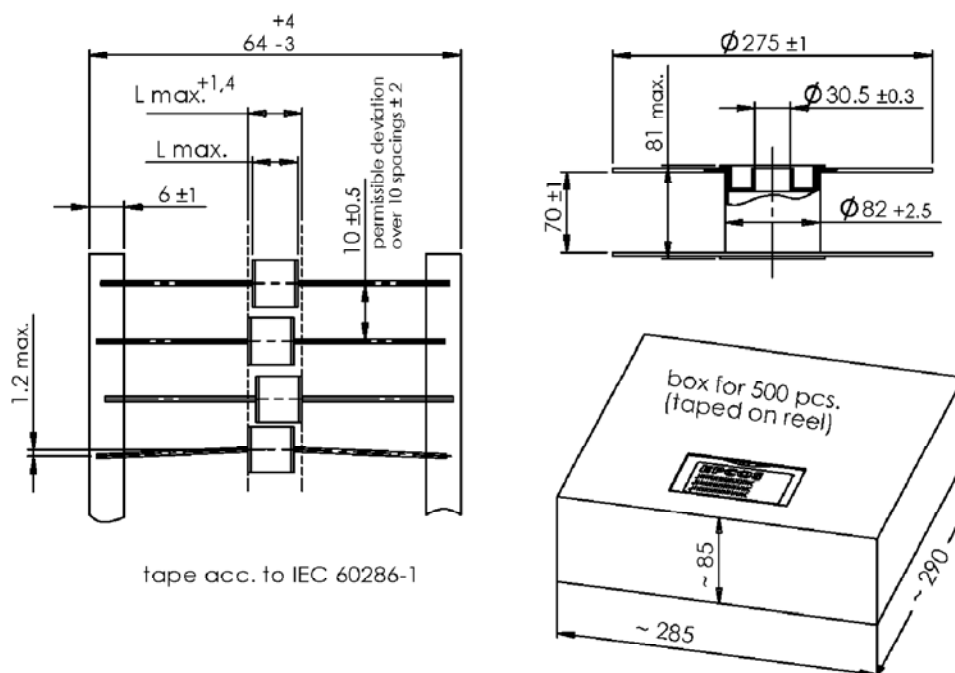


Fig. 4: Explanation of measurands



Dimensional drawing in mm

Ordering code and packing advice

B88069X5980T502 = 500 pcs. on tape and reel


Cautions and warnings

- Switching spark gaps may be used only within their specified values.
- Damaged switching spark gaps must not be re-used.

Important notes

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