

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: B88069X3790T502
Manufacturer: TDK
Package: Tape & Reel (TR)
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/tdk/b88069x3790t502.html>

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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-1JG
Ordering code: B88069X3790T502
Version/Date: Issue 03 / 2008-10-29

Features	Applications
- Extremely long life time - Stable performance over life - Insensitive performance against variations in temperature - Very low switching losses - Very short breakdown time - High reliability by robust design - RoHS compatibility	- Ignition circuits - High voltage switch

Electrical specifications

Nominal breakdown voltage V_N	800	V
Initial values ²⁾ Static breakdown voltage V_S ¹⁾ First ignition value $V_{S, FTE}$ after 24 hours in darkness Following ignition values $V_{S, FIV}$	 ≤ 950 704 ... 896	 V V
Electrical life time ³⁾ Breakdown voltage V_B First ignition value $V_{B, FTE}$ after 24 hours in darkness Ignition time t_i at V_0 during life Following ignition values $V_{B, FIV}$	 ≤ 1000 S.C. ⁴⁾ ≤ 60 680 ... 920 S.C. ⁴⁾	 V ms V
Switching operations at - 40 °C at + 25 °C at +125 °C at +150 °C at +170 °C (at -40 ... +170 °C)	 20 000 70 000 S.C. ⁴⁾ 70 000 30 000 10 000 (total 200 000)	 Ignitions Ignitions Ignitions Ignitions Ignitions Ignitions
Test circuit parameters Open circuit voltage V_0 Loading resistance R Discharge capacitance C Inductance L Discharge peak current I_P	 1000 68 100 0.5 ~ 400	 V kΩ nF μH A
General technical data Max. static breakdown voltage at 100 kV/s Insulation resistance at 100 V Early ignition values < 680 V ⁵⁾ Breakdown time Maximum switching frequency Maximum loading current Weight	 1300 > 100 S.C. ⁴⁾ ≤ 1 ≤ 50 400 50 ~ 2	 V MΩ % ns Hz mA g

Marking, blue positive

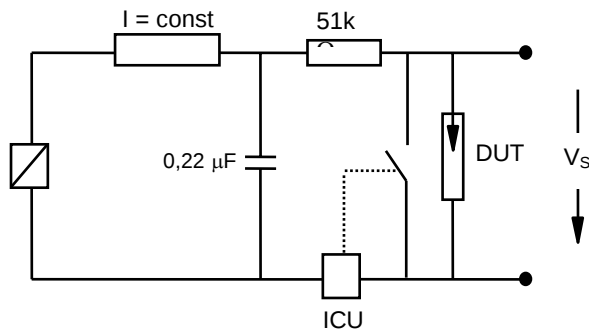
EPCOS 800 WWY O

800 - Nominal voltage
WW - Calendar week of production
Y - Year of production
O - Non radioactive

- 1) At delivery AQL 0,65 level II, DIN ISO 2859
- 2) Page 2, Fig. 1 and 2
- 3) Page 2, Fig. 3 and 4
- 4) S.C. = **S**ignificant **C**haracteristic
- 5) No early ignition value < 500 V

Figures

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



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

Fig. 2: Explanation of measurands

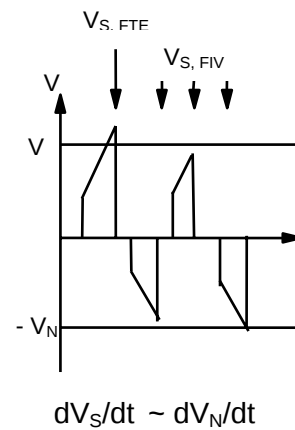


Fig. 3: QC- test circuit (sampling inspection at 25 °C)

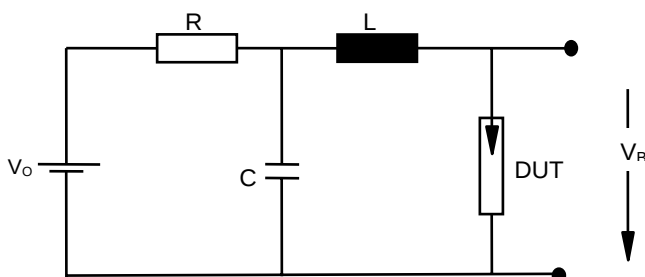
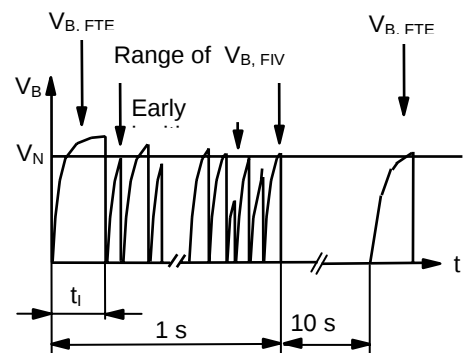
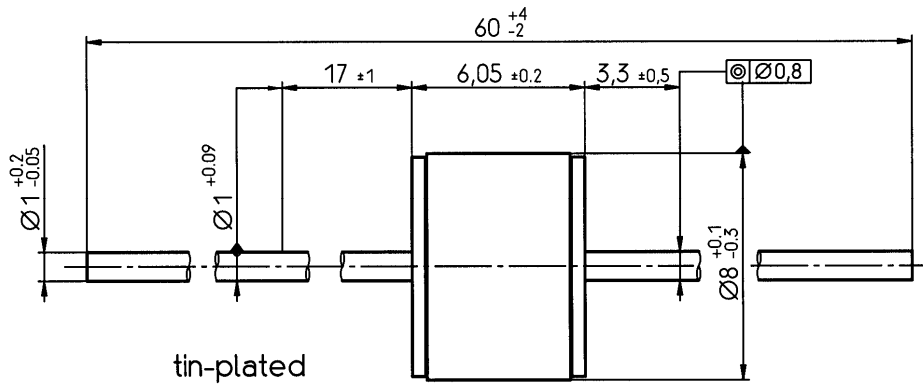


Fig. 4: Explanation of measurands



Dimensional Drawing



Cautions and warnings

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

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