

SSG with lead wires

Series/Type:FS08X-1JGSOrdering code:B88069X5980T502Version/Date:Issue 06 / 2012-05-31

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SSG with lead wires

B88069X5980T502 FS08X-1JGS

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

Electrical specifications

Nominal breakdown voltage V_N V 850 Initial values 2) Static breakdown voltage $V_{S}^{(1)}$ First ignition value V_{S. FTE} after 24 hours in darkness V ≤ 1000 V Following ignition values V_{S. FIV} 748 ... 952 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 V₀ during life ms ≤ **150** Following ignition values V_{B. FIV} V 722 ... 978 Switching operations at -40 °C 40 000 Ignitions at +25: 125: 150 °C 200 000 Ignitions Test circuit parameters 1050 V Open circuit voltage V₀ Loading resistance R 68 kΩ 100 Discharge capacitance C nF 0.4 Inductance L μH Discharge peak current IP, 8 half cycles, 850 V 650 А General technical data Insulation resistance at 100 V > 100 MΩ Early ignition values below 722 V ≤ 1 % Breakdown time ≤ 50 ns Maximum switching frequency Hz 400 Maximum loading current mΑ 50 Weight ~ 2 g Marking, blue positive **EPCOS** 800 WWY O 800 - Nominal voltage - Calendar week of production WW Υ - Year of production 0 - Non radioactive

Remarks on next page

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Applications

- Ignition circuits
- High voltage switch

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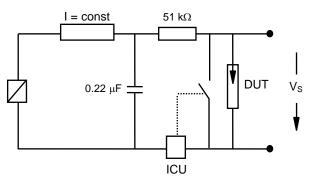


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- 1) At delivery AQL 0,65 level II, DIN ISO 2859
- ²⁾ Test circuits, fig. 1 and 2
- ³⁾ Test circuits, fig. 3 and 4

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

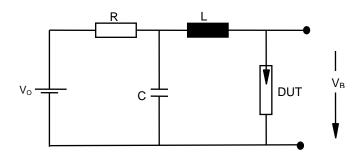


Fig. 2: Explanation of measurands

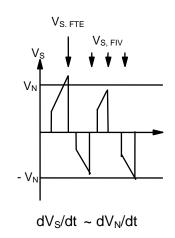
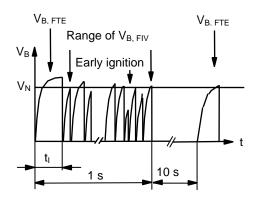


Fig. 4: Explanation of measurands



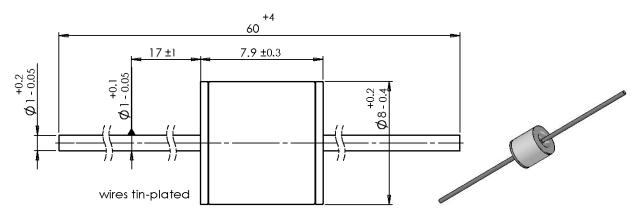
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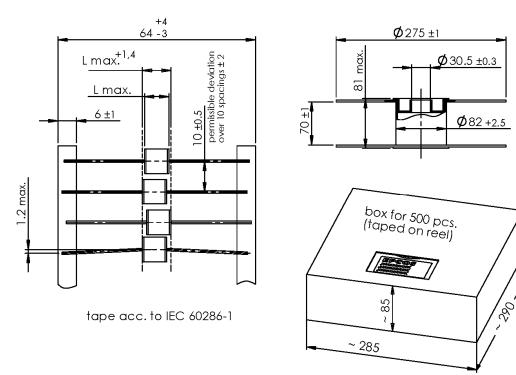
B88069X5980T502 FS08X-1JGS

Dimensional drawing in mm



Ordering code and packing advice

B88069X5980**T502** = 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.

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