



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

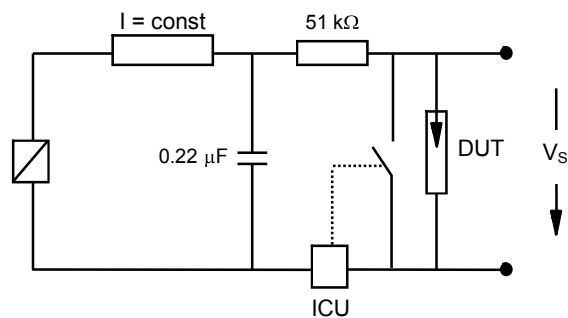
- Ignition circuits
- High voltage switch

Electrical specifications

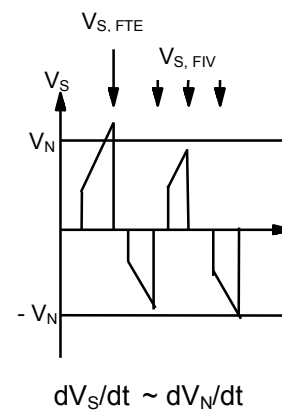
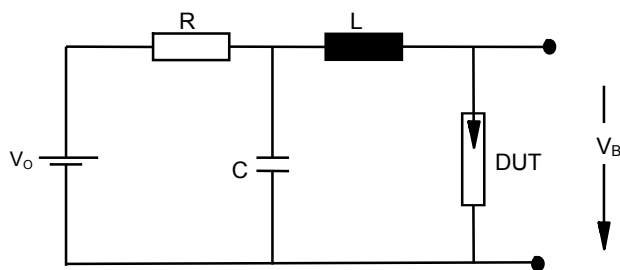
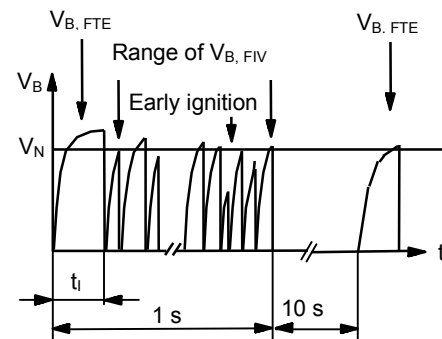
Nominal breakdown voltage V_N	850	V
Initial values ²⁾ Static breakdown voltage V_S ¹⁾ First ignition value $V_{S, FTE}$ after 24 hours in darkness Following ignition values $V_{S, FIV}$	≤ 1000 748 ... 952	V V
Electrical life time ³⁾ Breakdown voltage V_B First ignition value $V_{B, FTE}$ after 24 hours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

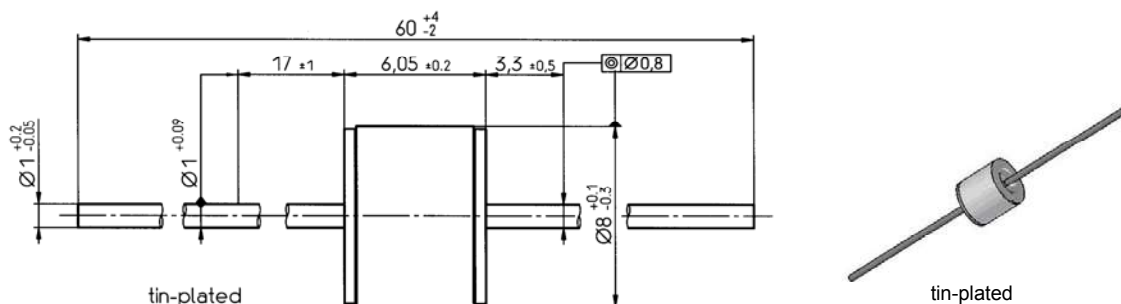
Remarks on next page

- 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

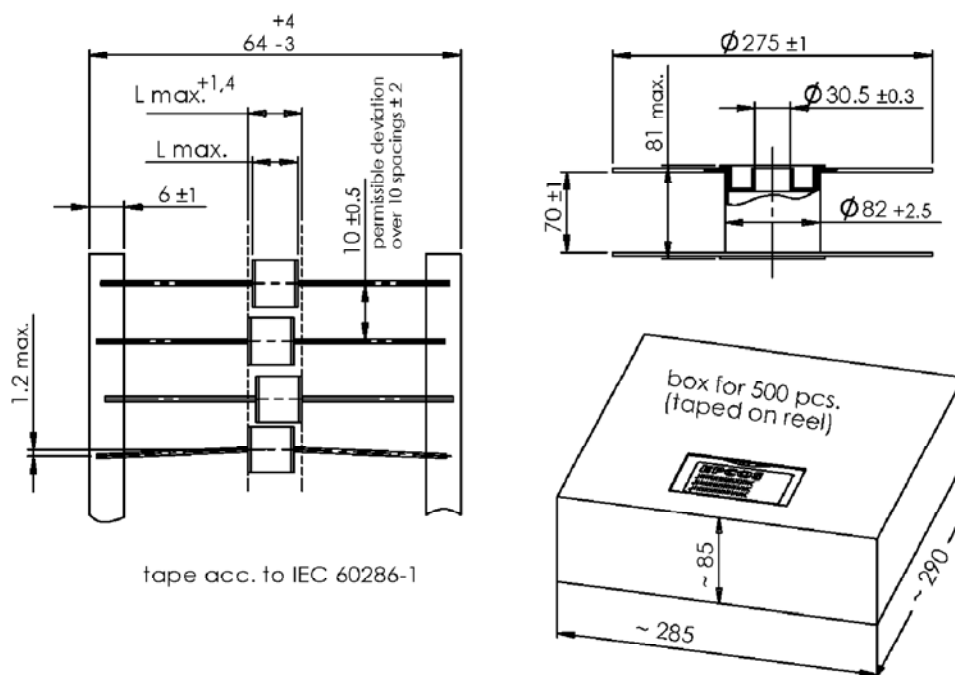
Test circuits
Fig. 1: QC test circuit (100% outgoing inspection)


DUT device under test
 ICU ignition control unit (sensitivity 10 ... 30 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 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.

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