

## **Switching Spark Gap**

Series/Type: SSG5X-1

Ordering code: B88069X0270S102

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## Switching Spark Gap

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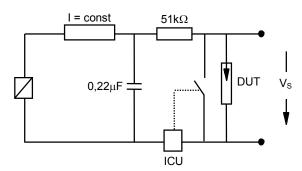
Nominal breakdown voltage V <sub>N</sub>	5000	V
Initial values <sup>2)</sup> Static breakdown voltage V <sub>S</sub> <sup>1)</sup> First ignition value V <sub>S, FTE</sub> after 24 hours in darkness Following ignition values V <sub>S, FIV</sub>	≤ 6500 4000 6000	V
Electrical life time <sup>3)</sup> Breakdown voltage V <sub>B</sub> First ignition value V <sub>B, FTE</sub> after 24 hours in darkness Following ignition values V <sub>B, FIV</sub>	≤ 7000 3750 6250	V
Switching operations at 0 +100 °C	100 000	Ignitions
Test circuit parameters Open circuit voltage V <sub>0</sub> Loading resistance R Discharge capacitance C Inductance L Discharge peak current I <sub>P</sub>	7000 4000 1 20 30	V kΩ nF μH A
General technical data Insulation resistance at 100 V Early ignition values below 3750 V Breakdown time Maximum switching frequency Weight	> 100 ≤ 1 ≤ 50 100 ~ 2	MΩ % ns Hz g
Marking, red	EPCOS 5000 YY O  5000 - Nominal voltage  YY - Year of production  O - Non radioactive	

<sup>1)</sup> At delivery AQL 0,65 level II, DIN ISO 2859
2) Page 2, Fig. 1 and 2
3) Page 2, Fig. 3 and 4

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



DUT device under test

ICU  $\,$  ignition control unit (sensitivity 10 .. 30  $\mu$ A)

Discharge current 10 – 20 mA

Fig. 2: Explanation of measurands

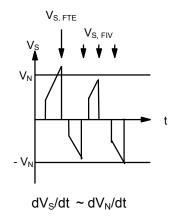


Fig. 3: QC- test circuit (sampling inspection at 25 °C)

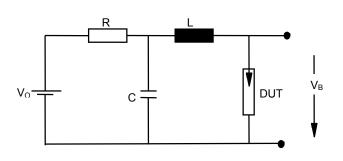
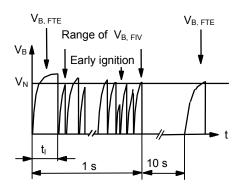
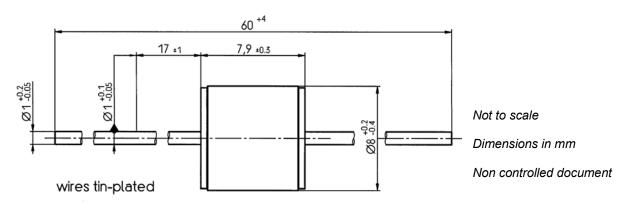


Fig. 4: Explanation of measurands





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