

## **Switching Spark Gap**

Series/Type: SSG5X-1

Ordering code: B88069X0270S102

Date: 16.06.2004 Version: Issue 05

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## Switching Spark Gap

SSG5X-1

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

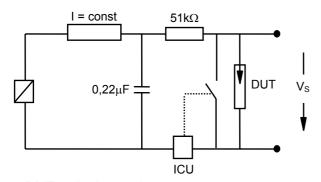
<sup>1)</sup> At delivery AQL 0,65 level II, DIN ISO 2859
2) Page 2, Fig. 1 and 2
3) Page 2, Fig. 3 and 4

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

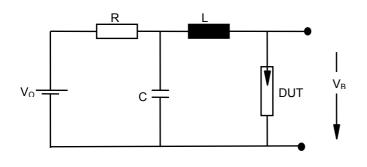


Fig. 2: Explanation of measurands

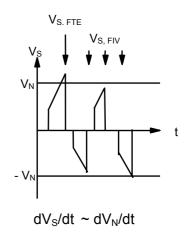
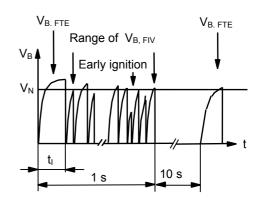
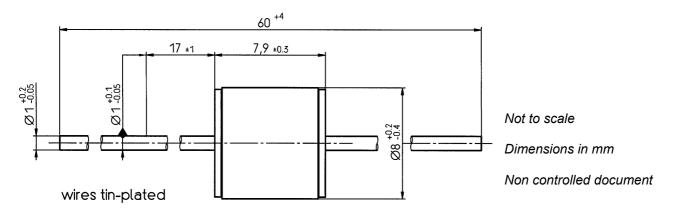


Fig. 4: Explanation of measurands





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