



Switching Spark Gap

Series/Type:	SSG5X-1
Ordering code:	B88069X0270S102
Date:	16.06.2004
Version:	Issue 05

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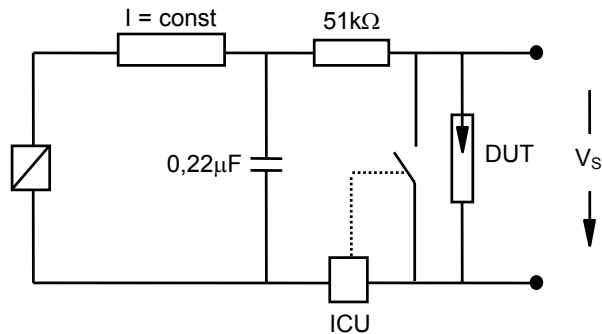
Nominal breakdown voltage V_N	5000	V
Initial values ²⁾		
Static breakdown voltage V_S ¹⁾		
First ignition value $V_{S, FTE}$ after 24 hours in darkness	≤ 6500	V
Following ignition values $V_{S, FIV}$	4000 ... 6000	V
Electrical life time ³⁾		
Breakdown voltage V_B		
First ignition value $V_{B, FTE}$ after 24 hours in darkness	≤ 7000	V
Following ignition values $V_{B, FIV}$	3750 ... 6250	V
Switching operations at 0 ... +100 °C	100 000	Ignitions
Test circuit parameters		
Open circuit voltage V_0	7000	V
Loading resistance R	4000	k Ω
Discharge capacitance C	1	nF
Inductance L	20	μ H
Discharge peak current I_P	30	A
General technical data		
Insulation resistance at 100 V	> 100	M Ω
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	

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

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. 2: Explanation of measurands

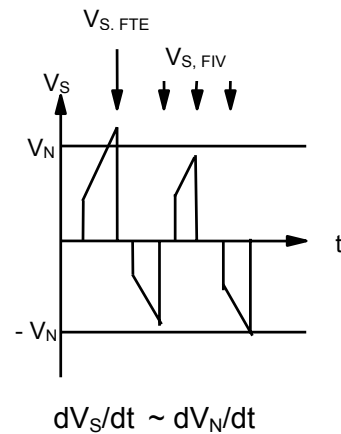


Fig. 3: QC- test circuit (sampling inspection at 25 °C)

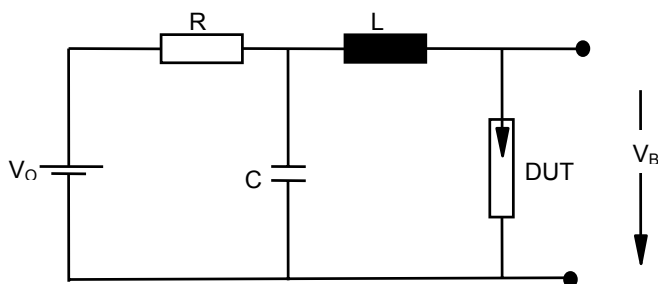
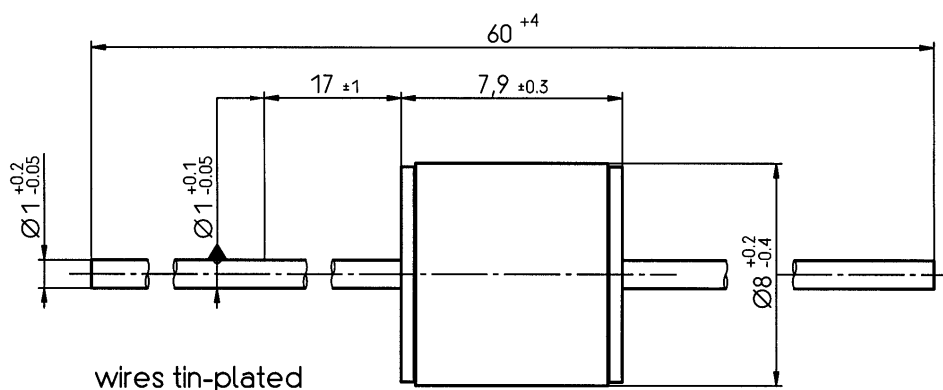
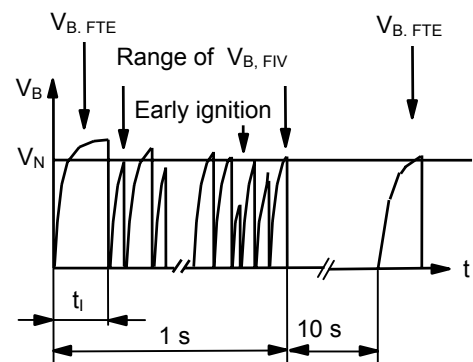


Fig. 4: Explanation of measurands



Not to scale

Dimensions in mm

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