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Switching Spark Gap

Series/Type:	**FS06X-1NG**
Ordering code:	**B88069X3660T502**
Date:	16.06.2004
Version:	Issue 06

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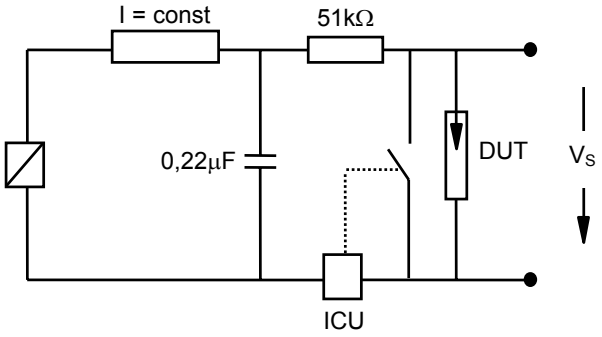
Switching Spark Gap — FS06X-1NG

Ordering code: B88069X3660T502

Nominal breakdown voltage V_N	600	V
Initial values [2]		
Static breakdown voltage V_S [1]		
First ignition value $V_{S, FTE}$ after 24 hours in darkness	≤ 720	V
Following ignition values $V_{S, FIV}$	560 ... 680	V
Electrical life time [3]		
Breakdown voltage V_B		
First ignition value $V_{B, FTE}$ after 24 hours in darkness	≤ 750	V
Ignition time t_I at V_0 during life	≤ 90	ms
Following ignition values $V_{B, FIV}$	540 ... 700	V
Switching operations		
at – 40; +25; +125°C	40 000	Ignitions
Test circuit parameters		
Open circuit voltage V_0	750	V
Loading resistance R	13	kΩ
Discharge capacitance C	470	nF
Inductance L	0.1	µH
Discharge peak current I_P	max. 1000	A
General technical data		
Insulation resistance at 100 V	> 10	MΩ
Early ignition values between 500 and 680 V	≤ 2	%
Breakdown time	≤ 50	ns
Maximum switching frequency	200	Hz
Weight	~ 2	g
Marking, blue	**EPCOS 600 WWY O** 600 - Nominal voltage WW - Calendar week of production Y - Year of production O - Non radioactive	

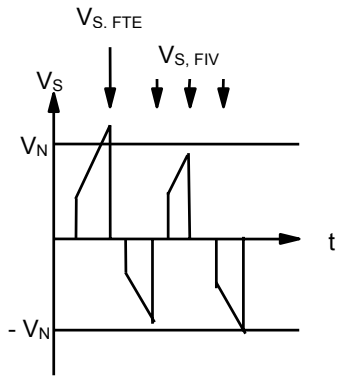
[1] At delivery AQL 0,65 level II, DIN ISO 2859
[2] Page 2, Fig. 1 and 2
[3] Page 2, Fig. 3 and 4

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



DUT device under test
ICU ignition control unit (sensitivity 10 .. 30 µA)
Discharge current 10 – 20 mA

Fig. 2: Explanation of measurands



$dV_S/dt \sim dV_N/dt$

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

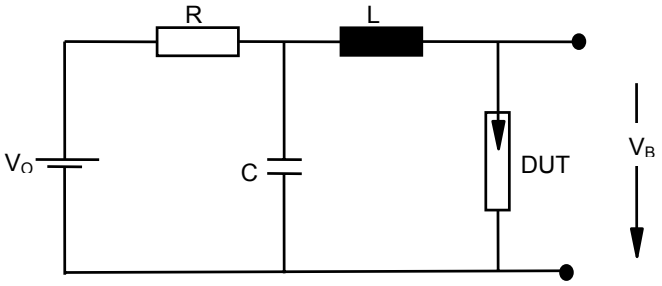
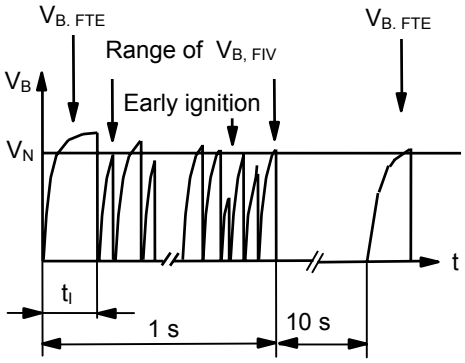
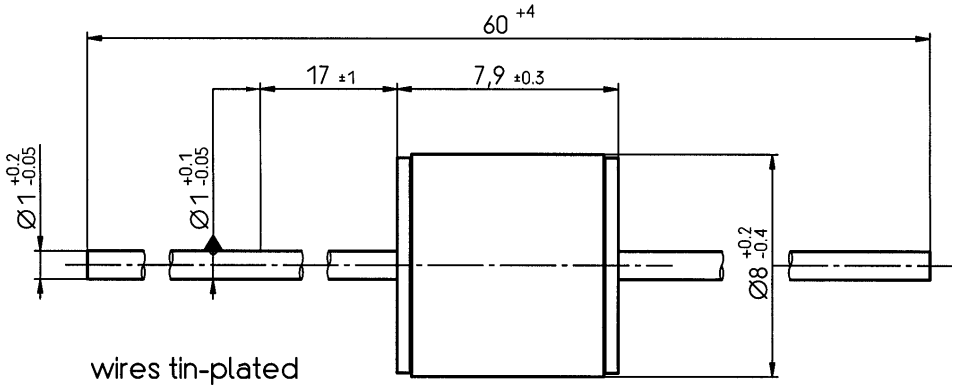


Fig. 4: Explanation of measurands





Not to scale

Dimensions in mm

Non controlled document