



# Switching spark gaps

**Series/Type: SSG03X1J**

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B88069X6331S102		2016-12-16	2017-03-25	2017-06-25

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at [www.epcos.com/sales](http://www.epcos.com/sales).

**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 by robust design
- RoHS-compatible

**Application**

- Ignition of HID lamps

**Electrical specifications**

Nominal breakdown voltage $V_N$	350	V
Initial values <sup>1) 2)</sup>		
Static breakdown voltage $V_S$		
First ignition value $V_{S, FTE}$ after 24 hours in darkness	≤ 420	V
Following ignition values $V_{S, FIV}$	290 ... 390	V
Electrical life time <sup>3)</sup>		
Breakdown voltage $V_B$		
First ignition value $V_{B, FTE}$ after 24 hours in darkness	≤ 450	V
Ignition time $t_i$ at $V_0$ during life	≤ 300	ms
Following ignition values $V_{B, FIV}$	290 ... 390	V
Switching operations at + 25 °C	50 000	Ignitions
Test circuit parameters		
Open circuit voltage $V_0$	450	V
Loading resistance R	10	kΩ
Discharge capacitance C	680	nF
Inductance L	0.5	μH
Discharge peak current $I_P$	~ 500	A
General technical data		
Insulation resistance at 100 V	> 100	MΩ
Early ignition values below 290 V	≤ 2	%
Breakdown time	≤ 50	ns
Maximum switching frequency	200	Hz
Maximum loading current	50	mA
Weight	~ 2	g
Marking, red positive	<b>EPCOS 350 WWY O</b> 350 - Nominal voltage WW - Calendar week of production Y - Year of production O - Non radioactive	

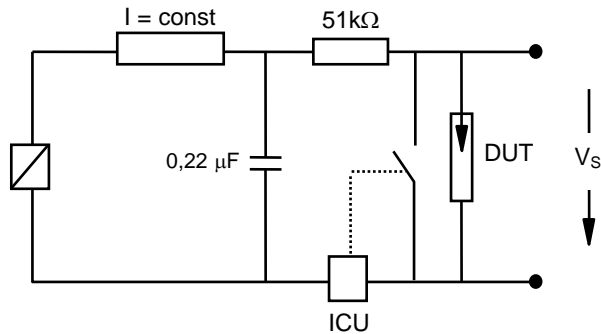
<sup>1)</sup> At delivery AQL 0,65 level II, DIN ISO 2859

<sup>2)</sup> Fig. 1 and 2

<sup>3)</sup> Fig. 3 and 4

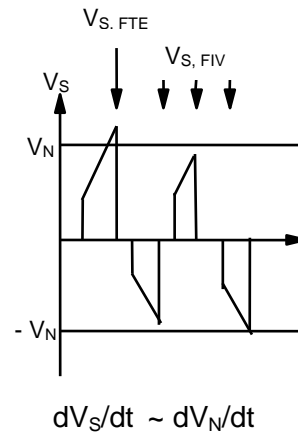
**Test circuits and explanations**

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

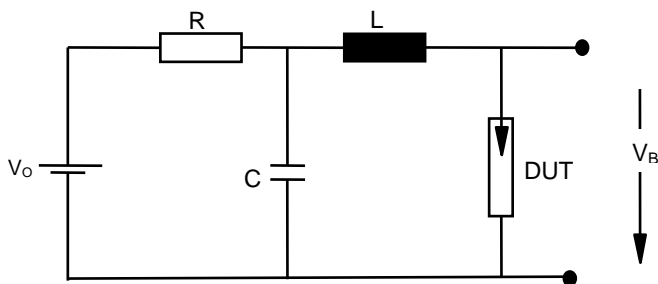


DUT device under test  
 ICU ignition control unit (sensitivity 10 ... 30 μA)  
 Discharge current 10 ... 20 mA

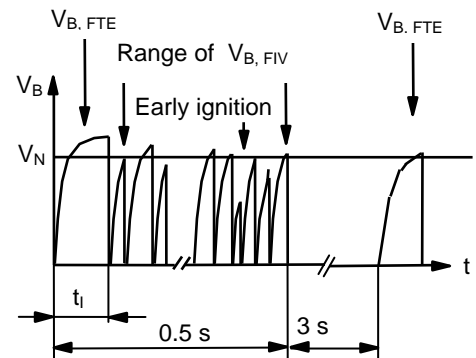
**Fig. 2: Explanation of measurands**

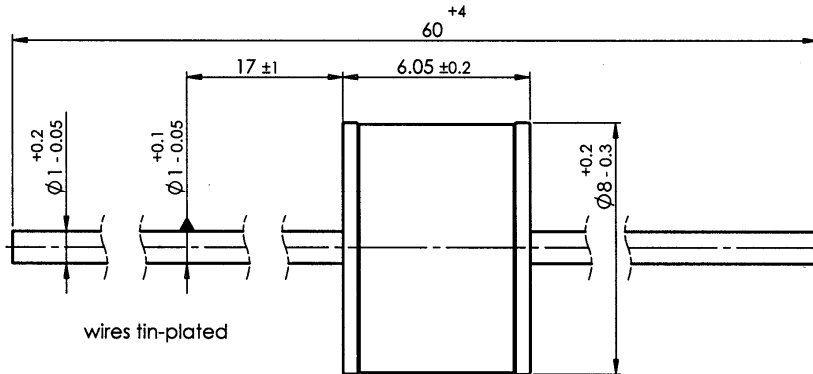


**Fig. 3: QC-test circuit (sampling inspection at 25 °C)**

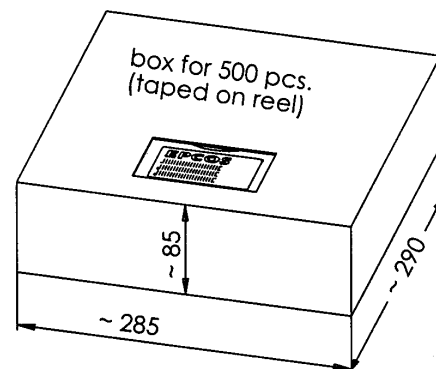
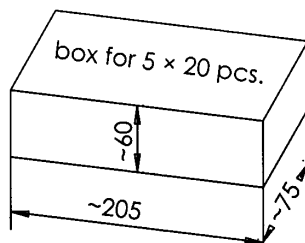
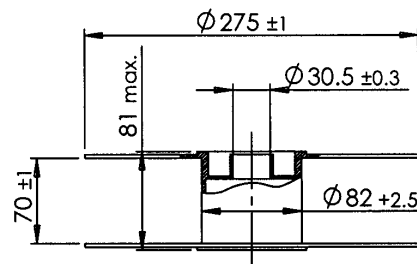
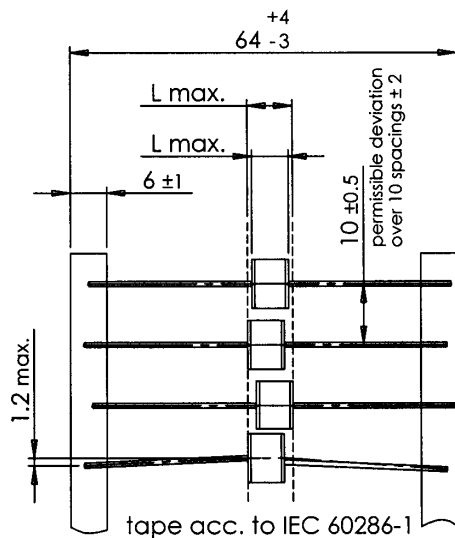


**Fig. 4: Explanation of measurands**



**Dimensional drawing in mm**

**Ordering codes and packing advices**

*B88069X6331S102 = 100 pcs. on 5 taped stripes    B88069X6331T502 = 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.

## Important notes

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