



Switching spark gap

SSG with lead wires

Series/Type: CAS02X-068
Ordering code: B88069X0680T502
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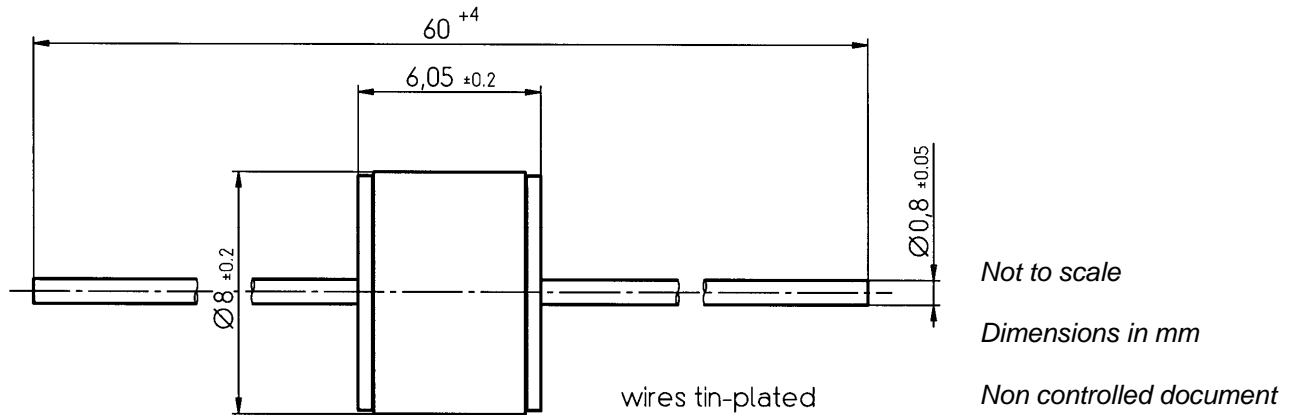
Features	Applications
<ul style="list-style-type: none"> ▪ Extremely long life time ▪ Stable performance over life ▪ Insensitive performance against variations in temperature ▪ Low switching losses ▪ Very short breakdown time ▪ High reliability by robust design ▪ RoHS compatible 	<ul style="list-style-type: none"> ▪ Ignition circuits

Electrical specifications

DC spark-over voltage ^{1) 2)}	200 ... 255	V
Initial values		
Ignition time t_i after 150 hours in darkness ³⁾	95 99.9 100	%
at -20 °C	≤ 4	≤ 5
at +25; 125 °C	≤ 2	≤ 3
		≤ 7
		≤ 4
Electrical life time		
Maximum increase of DC spark-over voltage	25	V
Switching operations at +25; 125 °C		
Switching frequency 10 ... 25 Hz	2 000 000	Ignitions
Switching frequency < 10Hz	4 000 000	Ignitions
Test circuit parameters		
Open circuit voltage V_0	230	V_{ac}
Loading resistance R	15	kΩ
Discharge capacitance C	2.2	μF
Inductance L	10	μH
Discharge peak current I_p	~ 300	A
Insulation resistance at 100 V_{dc}	> 0.1	GΩ
Capacitance at 1 MHz	< 2	pF
Weight	~ 1.5	g
Operation and storage temperature	-20 ... +125	°C
Climatic category (IEC 60068-1)	20/ 125/ 21	
Marking, red positive	EPCOS CS 230 YMM O CS - Series 230 - Nominal voltage YY - Year of production MM - Month of production O - Non radioactive	

- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode, after load
- 3) Time from capacitor charged to the first high voltage spark
Test circuit: $V_{ac} = 198 \text{ V}$; $R = 36 \text{ k}\Omega$; $C = 2.2 \text{ }\mu\text{F}$

Dimensional drawing



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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