



Switching spark gap

SSG with lead wires

Series/Type:	CAS02X-068
Ordering code:	B88069X0680T502
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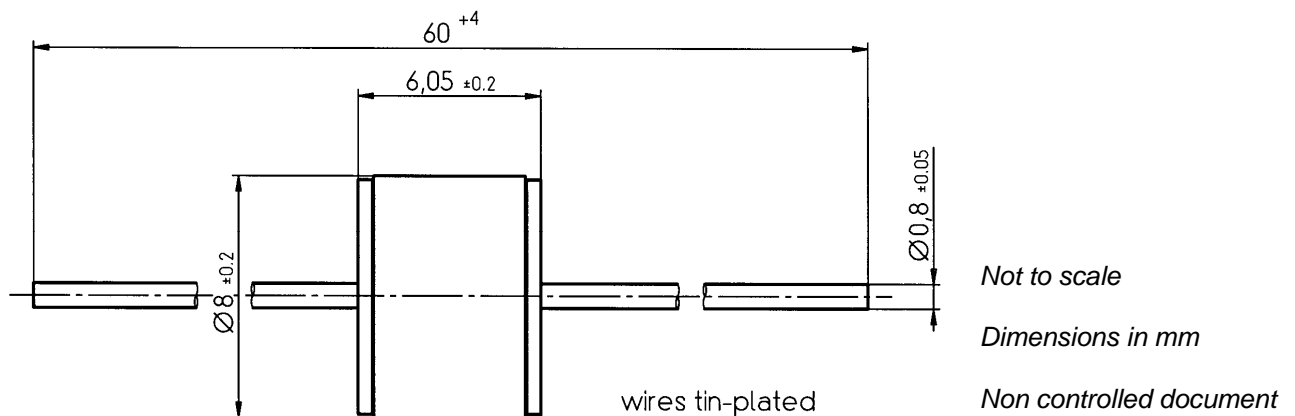
Features	Applications
<ul style="list-style-type: none"> Extremely long life time Stable performance over life Insensitive performance against variations in temperature Low switching losses Very short breakdown time High reliability by robust design RoHS compatible 	<ul style="list-style-type: none"> 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	≤ 7	s
at +25; 125 °C	≤ 2	≤ 3	≤ 4	s
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 YYMM 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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