Switching spark gap

SSG with lead wires

Series/Type:	**CAS02X-068**
Ordering code:	**B88069X0680T502**
Version/Date:	Issue 05 / 2007-11-22

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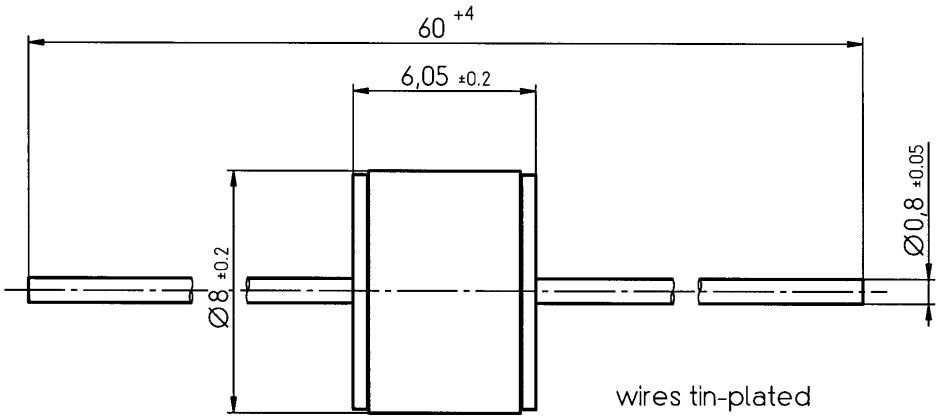
Features	Applications
▪ Extremely long life time ▪ Stable performance over life ▪ Insensitive performance against variations in temperature ▪ Low switching losses ▪ Very short breakdown time ▪ High reliability by robust design ▪ RoHS compatible	▪ Ignition circuits

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 V; R = 36 kΩ; C = 2.2 µF

Dimensional drawing



Not to scale

Dimensions in mm

Non controlled document

Cautions and warnings

- Switching spark gaps may be used only within their specified values.
- Damaged switching spark gaps must not be re-used.

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