



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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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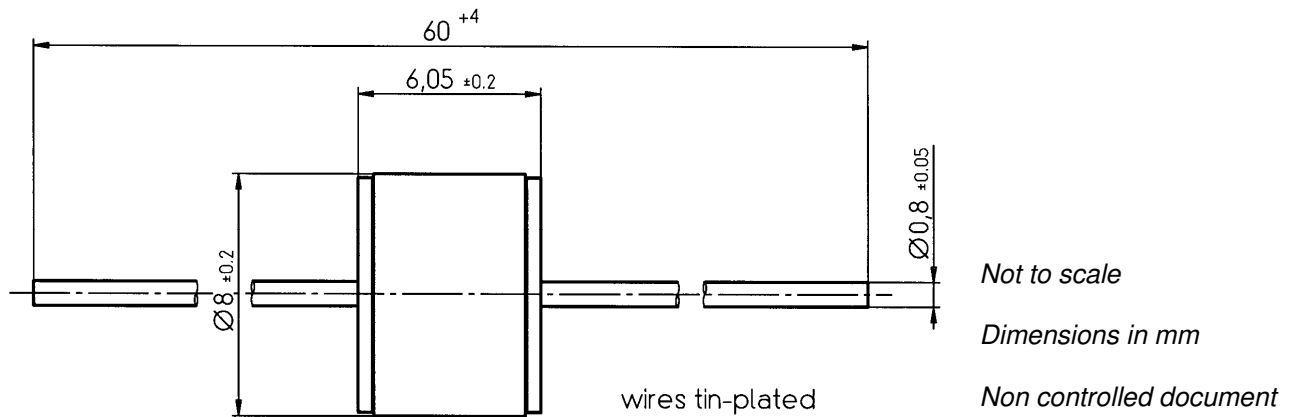
Features	Applications
<ul style="list-style-type: none"> ▪ Extremely long life time ▪ Stable performance over life ▪ Insensitive performance against variations in temperature ▪ Low switching losses ▪ Very short breakdown time ▪ High reliability by robust design ▪ RoHS compatible 	<ul style="list-style-type: 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
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	k Ω
Discharge capacitance C	2.2	μ F
Inductance L	10	μ H
Discharge peak current I_p	~ 300	A
Insulation resistance at 100 V_{dc}	> 0.1	G Ω
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

The following applies to all products named in this publication:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application**. As a rule, EPCOS is either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether an EPCOS product with the properties described in the product specification is suitable for use in a particular customer application.
2. We also point out that **in individual cases, a malfunction of passive electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified**. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of a passive electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of a passive electronic component.
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4. In order to satisfy certain technical requirements, **some of the products described in this publication may contain substances subject to restrictions in certain jurisdictions (e.g. because they are classed as hazardous)**. Useful information on this will be found in our Material Data Sheets on the Internet (www.epcos.com/material). Should you have any more detailed questions, please contact our sales offices.
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