

Switching spark gap

SSG for SMD handling

Series/Type: CAS02XSMD B88069X6321T602

Version/Date: Issue 02 / 2006-10-30



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CAS02XSMD

Features	Applications
 Long life time 	 Ignition for gas stoves
 Stable performance over life 	
 Insensitive performance against variations in temperature 	
Low switching losses	
 Very short breakdown time 	
 High reliability by robust design 	
SMD handling	
 RoHS-compatible 	

Electrical specifications

DC spark-over voltage 1) 2)	215 255		V	
Initial values				
Ignition time t _I after 150 hours in darkness 3)	95	99.9	100	%
at –20 °C at +25; 150 °C	≤ 4 ≤ 2	≤ 5 ≤ 3	≤ 7 ≤ 4	s s
Electrical life time A			•	
Maximum increase of DC spark-over voltage	25	25		V
Switching operations at +25; 125 °C Switching frequency 10 25 Hz Switching frequency < 10 Hz		2 000 000 4 000 000		Ignitions Ignitions
Test circuit parameters; 1 s ON, 10 s OFF Open circuit voltage V _{0'} Loading resistance R Discharge capacitance C Inductance L Discharge peak current I _P	230 15 2.2 10 ~ 300			V _{ac} kΩ μF μH A
Electrical life time B Switching operations at +25 °C Switching frequency 1000 Hz	600 00	0		Ignitions
Test circuit parameters; 1 cycle 10 min ON Open circuit voltage V _{0'} Loading resistance R Discharge capacitance C Inductance L Discharge peak current I _P	230 1.5 0.1 7 ~ 300		V _{ac} kΩ μF μH A	
Insulation resistance at 100 V _{dc}	> 0.1	> 0.1		GΩ
Capacitance at 1 MHz	< 2	< 2		pF
Weight	~ 1.5			g

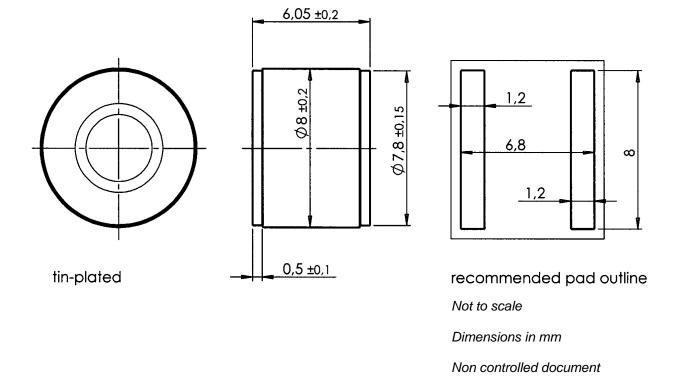
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Operation and storage temperature	-20 +150 °C	
Climatic category (IEC 60068-1)	20/ 150/ 21	
Marking, red positive	EPCOS CS 230 YYMM O CS - Series 230 - Nominal voltage YY - Year of production MM - Month of production O - Non radioactive	

Dimensional drawing



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At delivery AQL 0.65 level II, DIN ISO 2859
In ionized mode, after load
Time from capacitor charged to the first high voltage spark Test circuit: V_{ac} = 198 V; R = 36 k Ω ; C = 2.2 μ F

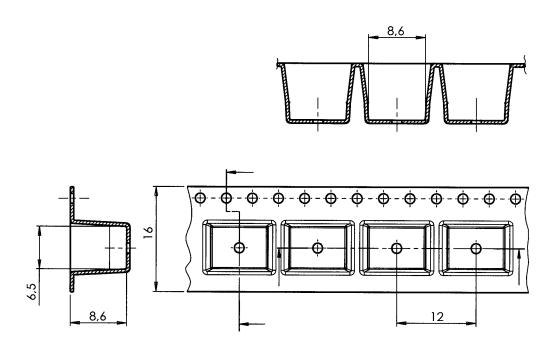


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Packing advice

T602 = SMD-tape with 600 pcs



SMD-tape according to IEC 60286-3

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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