



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!



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Switching spark gap

SSG with lead wires

Series/Type: FS08X-1JGS
Ordering code: B88069X5980T502
Version/Date: Issue 07 / 2012-10-05

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Features

- Extremely long life time
- Stable performance over life
- Insensitive performance against variations in temperature
- Very low switching losses
- Very short breakdown time
- High reliability due to robust design
- RoHS compatibility

Applications

- Ignition circuits
- High voltage switch

Electrical specifications

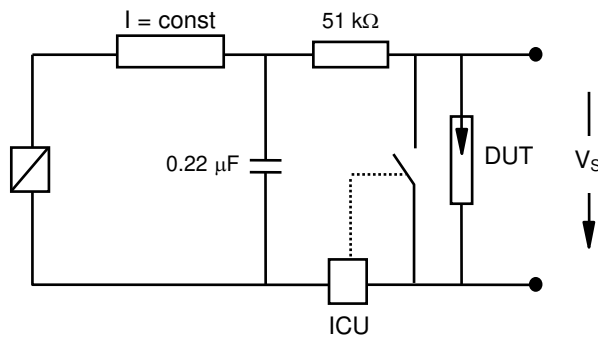
Nominal breakdown voltage V_N	850	V
Initial values ²⁾ Static breakdown voltage V_S ¹⁾ First ignition value $V_{S, FTE}$ after 24 hours in darkness Following ignition values $V_{S, FIV}$	≤ 1000 748 ... 952	V V
Electrical life time ³⁾ Breakdown voltage V_B First ignition value $V_{B, FTE}$ after 24 hours in darkness Ignition time t_i at V_0 during life Following ignition values $V_{B, FIV}$	≤ 1050 ≤ 150 722 ... 978	V ms V
Switching operations at $-40\text{ }^\circ\text{C}$ at $+25; 125; 150\text{ }^\circ\text{C}$	40 000 200 000	Ignitions Ignitions
Test circuit parameters Open circuit voltage V_0 Loading resistance R Discharge capacitance C Inductance L Discharge peak current I_P , 8 half cycles, 850 V	1050 68 100 0.4 650	V k Ω nF μH A
General technical data Insulation resistance at 100 V Early ignition values below 722 V Breakdown time Maximum switching frequency Maximum loading current Weight	> 100 ≤ 1 ≤ 50 400 50 ~ 2	M Ω % ns Hz mA g
Marking, blue positive	EPCOS 800 WWY O 800 - Nominal voltage WW - Calendar week of production Y - Year of production O - Non radioactive	

Remarks on next page

- 1) At delivery AQL 0,65 level II, DIN ISO 2859
- 2) Test circuits, fig. 1 and 2
- 3) Test circuits, fig. 3 and 4

Test circuits

Fig. 1: QC test circuit (100% outgoing inspection)



DUT device under test
 ICU ignition control unit (sensitivity 10 ... 30 μA)
 Discharge current 10 ... 20 mA

Fig. 2: Explanation of measurands

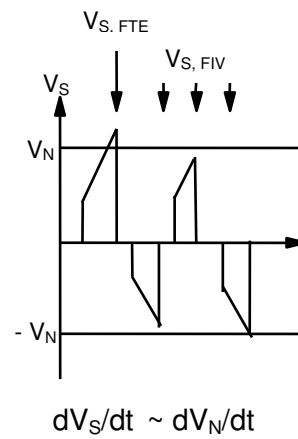


Fig. 3: QC test circuit (sampling inspection at 25 °C)

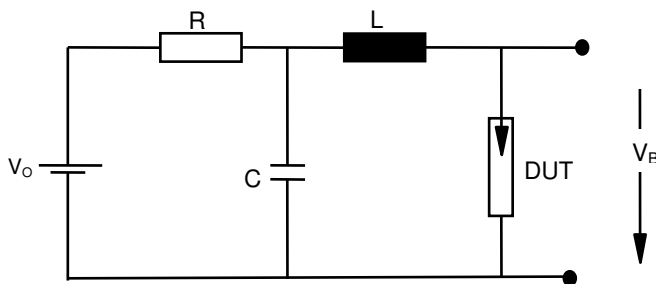
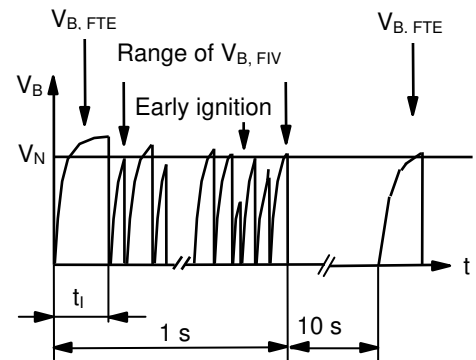
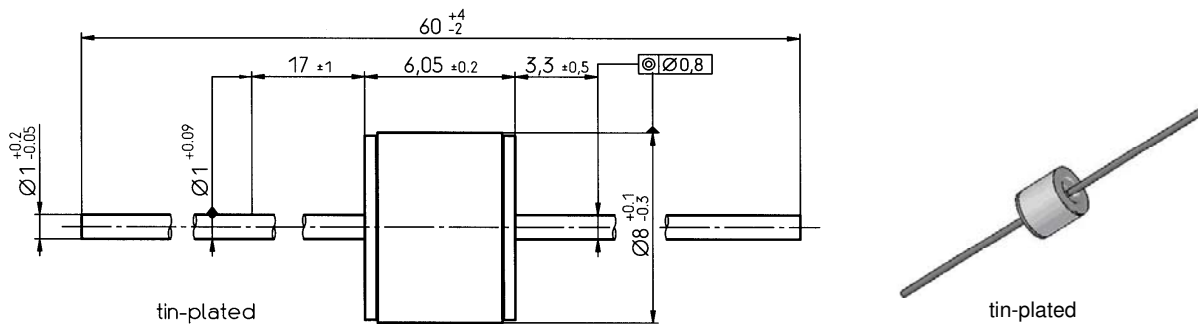
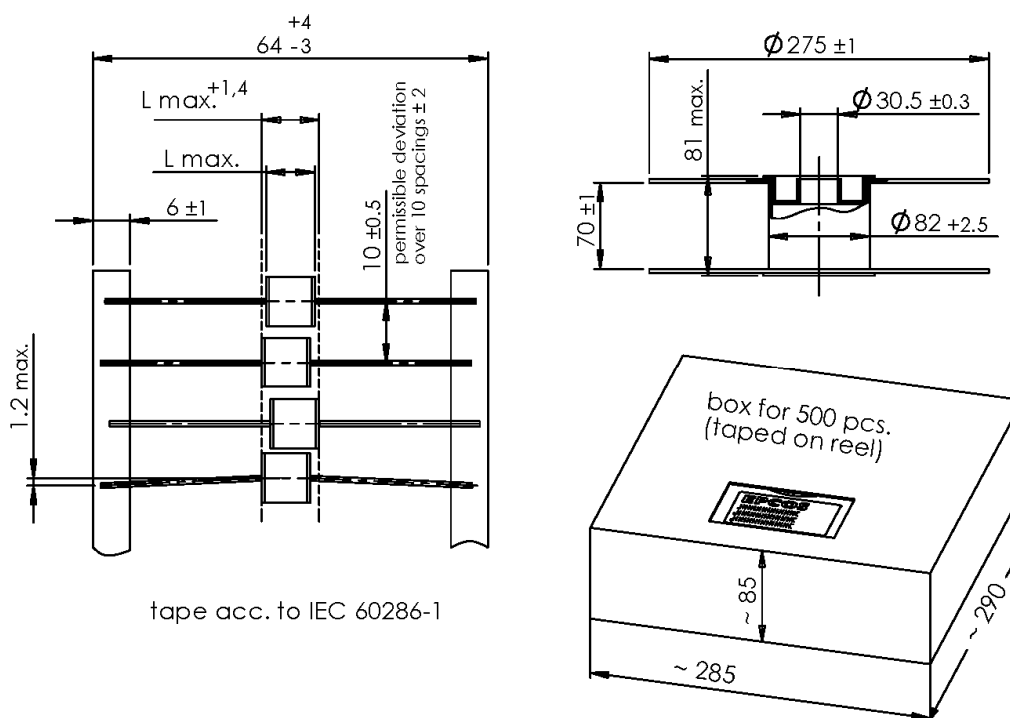


Fig. 4: Explanation of measurands



Dimensional drawing in mm

Ordering code and packing advice

B88069X5980T502 = 500 pcs. on tape and reel


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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The following applies to all products named in this publication:

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