

SSG with lead wires

FS08X-1JGS

Series/Type: Ordering code: B88069X5980T502

Version/Date: Issue 06 / 2012-05-31



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## SSG with lead wires FS08X-1JGS

#### **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 <sub>N</sub>	850	V
Initial values <sup>2)</sup> Static breakdown voltage V <sub>S</sub> <sup>1)</sup> First ignition value V <sub>S, FTE</sub> after 24 hours in darkness Following ignition values V <sub>S, FIV</sub>	≤ 1000 748 952	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 ℃ at +25; 125; 150 ℃	40 000 200 000	Ignitions Ignitions
Test circuit parameters Open circuit voltage V <sub>0</sub> Loading resistance R Discharge capacitance C Inductance L Discharge peak current I <sub>P</sub> , 8 half cycles, 850 V	1050 68 100 0.4 650	V kΩ 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	MΩ % 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

PPD AB PD / PPD AB PM Issue 06 / 2012-05-31

B88069X5980T502

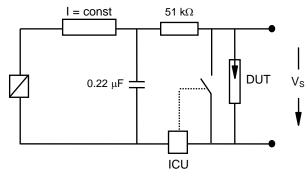
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FS08X-1JGS

- At delivery AQL 0,65 level II, DIN ISO 2859
- Test circuits, fig. 1 and 2
- 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. 3: QC test circuit (sampling inspection at 25 ℃)

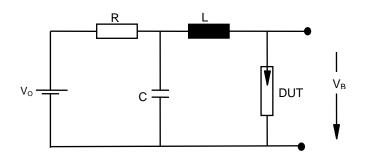


Fig. 2: Explanation of measurands

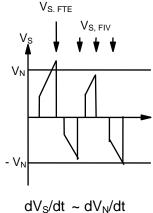
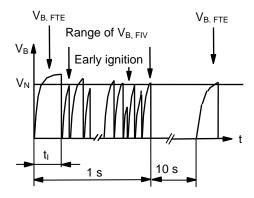


Fig. 4: Explanation of measurands



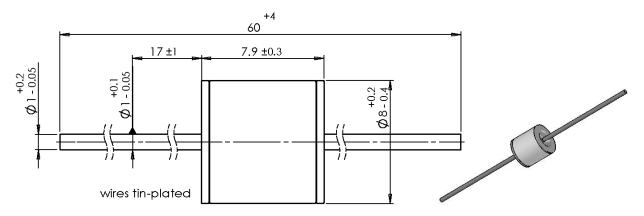
PPD AB PD / PPD AB PM Issue 06 / 2012-05-31

B88069X5980T502

SSG with lead wires

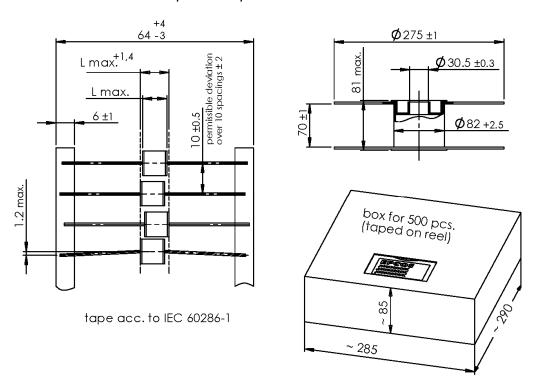
FS08X-1JGS

## Dimensional drawing in mm



## Ordering code and packing advice

B88069X5980**T502** = 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.

PPD AB PD / PPD AB PM Issue 06 / 2012-05-31



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