



Surge arrester

2-electrode arrester

Series/Type:	M50-A800XP2SMD
Ordering code:	B88069X3883T902
Date:	2015-08-17
Version:	01

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Surge arrester

B88069X3883T902

2-electrode arrester

M50-A800XP2SMD

Features

- Small size
- Very fast response time
- Stable performance over life
- High insulation resistance
- RoHS-compatible

Applications

- AC power line N-PE application
- Class II – surge protection

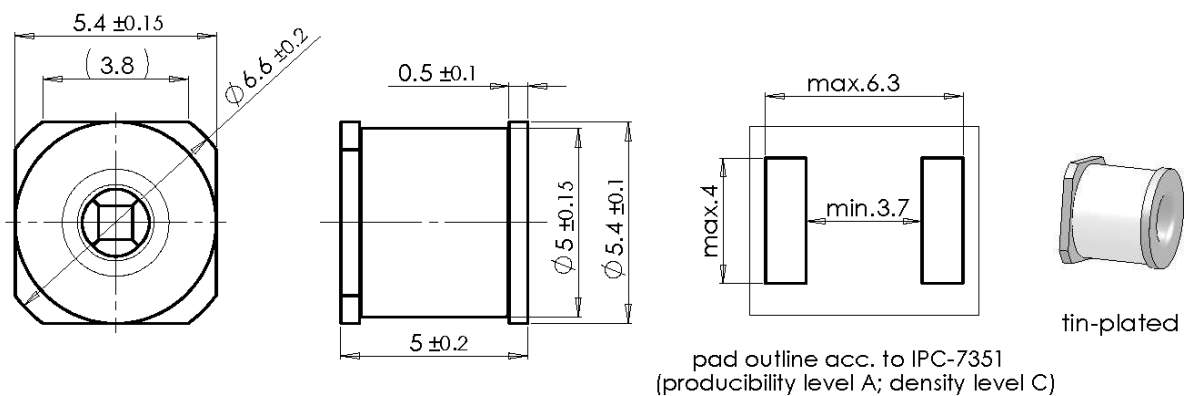
Electrical specifications

DC spark-over voltage ^{1) 2)}	> 650	V
Front of wave spark-over voltage ³⁾ - at 1.2/50 µs, 6 kV	< 1500	V
Breakdown time - typical values	< 100 < 20	ns ns
Insulation resistance at 100 V _{DC}	> 1	GΩ
Class II according to EN 61643-11		
Max. continuous operating voltage at 50/60 Hz	U _c	255
Nominal discharge current 8/20 µs	I _n	3
Maximum discharge current 8/20 µs	I _{max}	3
Follow current at 50/60 Hz	I _f	5
Weight	~ 1	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/090/21	
Marking, blue positive	EPCOS 800 YY O 800 - Nominal voltage YY - Year of production O - Non radioactive	

¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

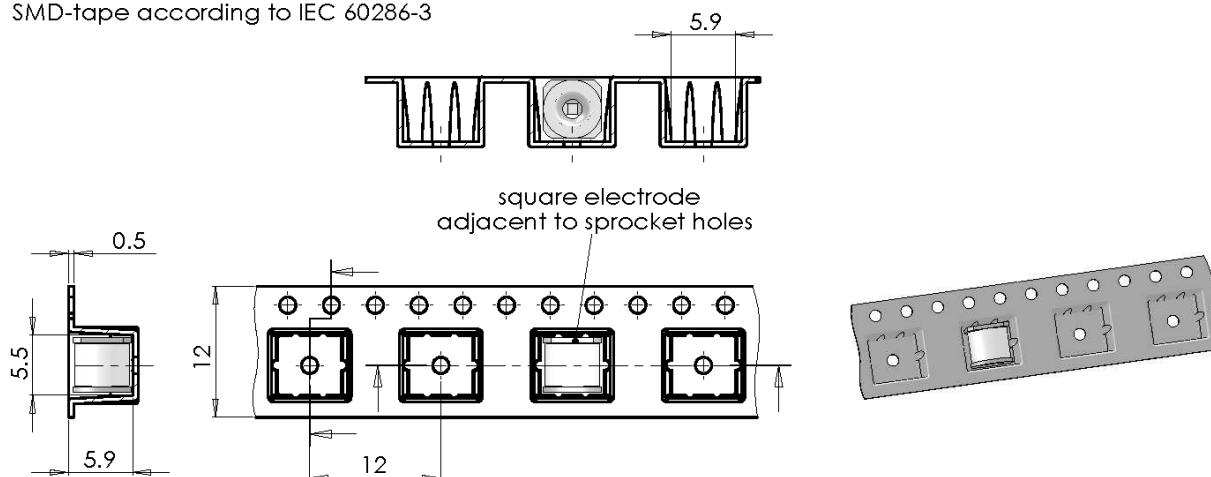
²⁾ In ionized mode

³⁾ Test in accordance with EN 61 643-11

Dimensional drawing in mm

Ordering code and packing advice

B88069X3883T902 = 900 pcs. in SMD-tape

SMD-tape according to IEC 60286-3



Cautions and warnings

- The follow current must be limited (see values on page 2) so that the arrester can be properly extinguished when the surge has decayed. The arrester might otherwise heat up and ignite adjacent components.
- Surge arresters may become hot in the event of longer periods of current stress (burn risk). In the event of overload the connectors may fail or the component may be destroyed.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- The shown SMD pad dimensions represent a safe way to mount the arrester and are a recommendation of the manufacturer. During the reflow process it must be assured that no solder material reduces the insulation distance between the pads below the arrester.
- SMD surge arresters should be soldered within 24 month after shipment.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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