

Surge arrester

2-electrode arrester

Series/Type:EN600XSMDOrdering code:B88069X8311T702

Date: Version: 2019-07-22 04

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EN600XSMD

B88069X8311T702

Surge arrester

2-electrode arrester

Features

- Very small size
- Very fast response time
- Stable performance over life
- Very low capacitance
- High insulation resistance
- Excellent SMD handling
- RoHS-compatible

Applications

- Modem
- XDSL-splitter
- Consumer electronic
- Tuner

Marking, blue positive EPCO EN 600 YY		
at 100 V/µs - for 99% of measured values - typical values of distribution< 900 < 800	V % V V	6 1
- typical values of distribution< 900Service life10 operations50 Hz, 1 s1 operation50 Hz, 0.18 s (9 cycles)2010 operations [5× (+) & 5× (-)]8/20 µs51 operation10/350 µs1.5300 operations [150× (+) & 150× (-)]10/1000 µs ³⁾ 100DC hold-over voltage<		/
10 operations50 Hz, 1 s51 operation50 Hz, 0.18 s (9 cycles)2010 operations $[5x (+) \& 5x (-)]$ $8/20 \ \mu s$ 51 operation $10/350 \ \mu s$ 1.5300 operations $[150x (+) \& 150x (-)]$ $10/1000 \ \mu s^{(3)}$ 100DC hold-over voltage at $135 \ V_{DC} / 1300 \ \Omega$ < 150	v V	
Arc voltage at 1 A~ 15Glow to arc transition current Glow voltage< 0.5	G	A A A ns δΩ
Operation and storage temperature -40 + Climatic category (IEC 60068-1) 40/125/ Marking, blue positive EPCO EN 600 YY YY	pi V A V	/
Climatic category (IEC 60068-1) 40/125/ Marking, blue positive EPCO No 600 YY YY	g	
Marking, blue positive EPCO EN 600 YY	+125 °C	С
EN - 600 - YY -	40/125/21	
	DS EN 600 YY O - Series - Nominal voltage - Year of production - Non radioactive	

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B88069X8311T702

UL 497B (E163070)

Surge arrester

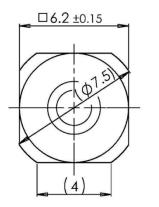
2-electrode arrester

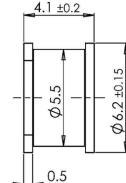
Certification

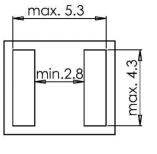
- ¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859
- ²⁾ In ionized mode

³⁾ DC spark-over voltage values may exceed ± 25% after stress, but tubes still operates w/o venting. Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311

Dimensional drawing in mm







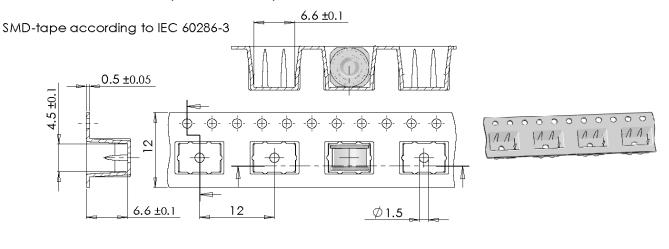
0

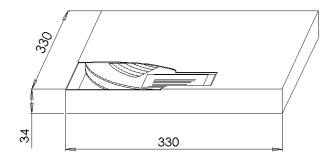
pad outline acc. to IPC-7351 (producibility level A; density level A)

tin-plated

Ordering codes and packing advices

B88069X8311T702 = 700 pcs. on SMD-tape & reel





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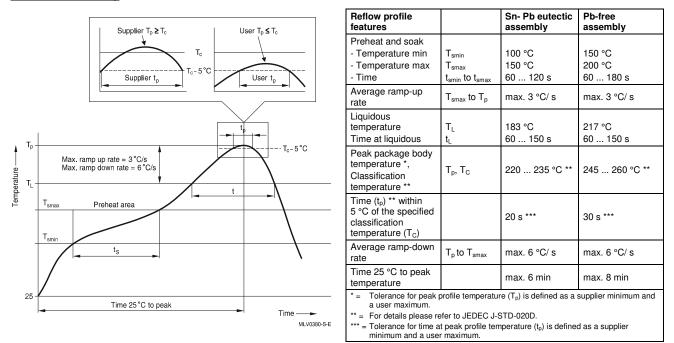
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Soldering parameter

Reflow soldering



Surface mounted components (SMD) may exhibit a temporary increase in the DC spark-over voltage after the solder reflow process. The components will recover within 24 hours. There is no quality defect nor change in protection levels during the temporary change in DC spark-over voltage.

Cautions and warnings

- Do not operate surge arresters in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- 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.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.
- 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.

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Important notes

8. The trade names EPCOS, CeraCharge, CeraDiode, CeraLink, CeraPad, CeraPlas, CSMP, CTVS, DeltaCap, DigiSiMic, ExoCore, FilterCap, FormFit, LeaXield, MiniBlue, MiniCell, MKD, MKK, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, PowerHap, PQSine, PQvar, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SiMic, SIMID, SineFormer, SIOV, ThermoFuse, WindCap are trademarks registered or pending in Europe and in other countries. Further information will be found on the Internet at www.tdk-electronics.tdk.com/trademarks.

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