

Surge arrester

2-electrode arrester

Series/Type: Ordering code:	EM3600X6ST5 B88069X3813****
Date:	2018-08-24
Version:	05

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B88069X3813****

EM3600X6ST5

Surge arrester

2-electrode arrester

Features

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

Applications

- Consumer electronics
- Tuner
- Air condition
- Power supply

Electrical specifications		
DC spark-over voltage ^{1) 2)} Tolerance Min. Max.	3600 ±20 2880 4320	V % V V
Impulse spark-over voltage		
at 100 V/µs - for 99% of measured values - typical values of distribution	< 4500 < 4300	V V
at 1 kV/µs - for 99% of measured values - typical values of distribution	< 5000 < 4800	V V
at 5 kV/µs - for 99% of measured values - typical values of distribution	< 5200 < 5000	V V
Service life		
10 operations 50 Hz; 1 s	1	A
300 operations 8/20 µs	100	A
10 operations 8/20 μs	3	kA
1 operation 8/20 μs	5	kA
Insulation resistance at 100 V_{DC}	> 1	GΩ
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A Glow to arc transition current Glow voltage at 0.1 A	~ 35 < 0.3 ~ 170	V A V
AC withstand voltage ³⁾ 1 min 1 s	1500 1800	V V
Weight	~ 1	g
Operation temperature	-40 +125	°C
Recommended storage - temperature - humidity - period	+5 +35 45 80 ≤ 2	°C % years
Climatic category (IEC 60068-1)	40/125/21	I

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Marking, red positive	EPCOS EM 3600 YY OEM- Series3600- Nominal voltageYY- Year of productionO- Non radioactive
Certifications	UL 1449 (E319264) c 🔊 us

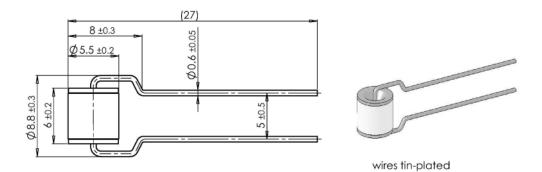
1) At delivery AQL 0.65 level II, DIN ISO 2859

²⁾ In ionized mode

³⁾ Test conditions in acc. with MIL-STD-202G at 25 \pm 5 °C, relative humidity of \leq 55 % and atmospheric pressure 860 ... 1100mbar.

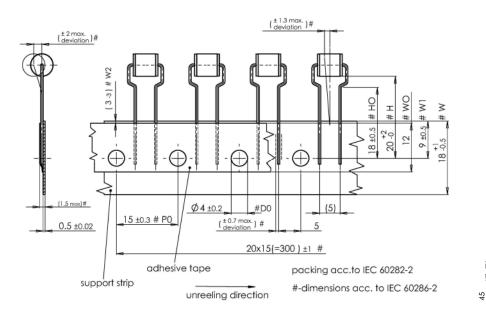
Terms and current waveforms in accordance with: ITU-T Rec. K. 12; IEC 61643-21; 61643-311.

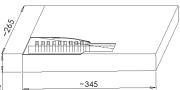
Dimensional drawing in mm



Ordering code and packing advice

B88069X3813A802 = 800 pcs. in ammo pack





PPD AB PD / PPD AB PM



B88069X3813****

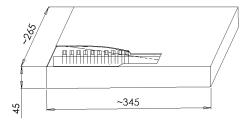
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(±1.3 max.)# (±2 max. (deviation)# (3-3) # W2 PH # OM # Ž Т # ≥ # ±0.5 9 ±0.5 5 99 12 ĺ 20 8 0 \oplus Œ \oplus \oplus 00 5 Ø4±0.2 #D0 (5) (1.5 max)# 12.7 ±0.3 # PO 0.5 ±0.02 (± 0.7 max.) # 3.85 20x12.7(=254) ±1 # packing acc.to IEC 60282-2 adhesive tape unreeling direction #-dimensions acc. to IEC 60286-2 support strip

B88069X3813A103 = 1000 pcs. in ammo pack





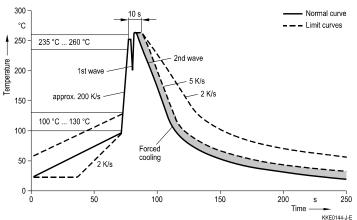
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Soldering parameter

Wave soldering



Wave profile features	Pb-free assembly
Solder	Sn 95.5 / Ag 3.8 / Cu 0.7
Solder bath temperature	263 (±3) °C
Dwell time	< 3 s

Soldering profile applied to a single soldering process.

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.
- Electromagnetic fields and ionizing radiation may affect the electrical characteristics of the arrester. The impact of such effects (inductive and capacitive field distortion from adjacent components) must be avoided by appropriate circuit design measures.
- 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.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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Release 2018-06



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