

Surge arrester

2-electrode arrester

Series/Type: Ordering code:	EF2700X8S B88069X8671****
Date:	2019-01-31
Version:	10

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EF2700X8S

B88069X8671****

Surge arrester

2-electrode arrester

Features

- Very fast response time
- Stable performance over life
- Very low capacitance

Electrical specifications

- High insulation resistance
- RoHS-compatible

Applications

- Power supply
- Consumer electronics
- AC power line devices

DC spark-over voltage ^{1) 2)}		2700	V
Tolerance		±15	%
Min.		2295	V
Max.		3105	V
Impulse spark-over voltage			
	99% of measured values	< 3600	V
	cal values of distribution	< 3100	V
	99% of measured values	< 4000	V
,,	cal values of distribution	< 3300	V
	99% of measured values	< 4000	V
typic	cal values of distribution	< 3500	V
Service life			
10 operations	50 Hz, 1 s	5	А
1 operation	50 Hz, 0.18 s (9 cycles)	35	А
10 operations [5× (+	-) & 5× (–)] 8/20 μs	5	kA
1 operation	8/20 µs	10	kA
Insulation resistance at 100 V	V _{DC}	> 10	GΩ
Capacitance at 1 MHz		< 1.5	pF
Arc voltage at 1 A		~ 35	V
Glow to arc transition current	i	< 0.3	А
Glow voltage at 0.1 A		~ 180	V
AC withstand voltage (1 min)	3)	1500	V
DC withstand voltage (3 s) 3)		1800	V
Weight		~ 1.5	g
Operation and storage tempe	erature	-40 +125	°C
Climatic category (IEC 60068	3-1)	40/125/21	
Marking, red positive		EPCOS EF 2700 YY OEF- Series2700- Nominal voltageYY- Year of productionO- Non radioactive	
Certifications		UL 1449 (E319264)	c SL [®] us
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Remarks on next page

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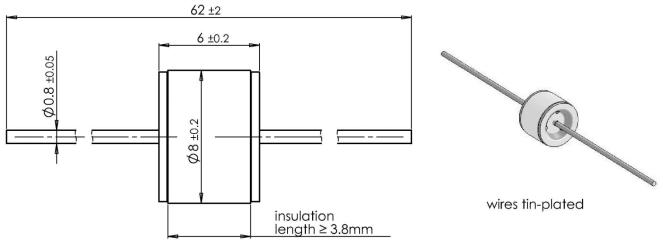
Surge arrester

2-electrode arrester

- 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 ±5 °C, relative humidity of ≤ 55% and atmospheric pressure 860 ... 1100mbar.

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

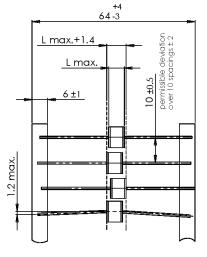
Dimensional drawing in mm



Ordering code and packing advice

B88069X8671**S102** = 100 pcs. on 5 taped stripes

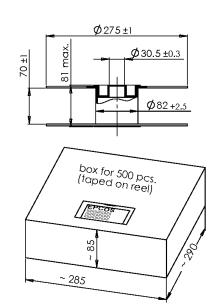
B88069X8671**T502** = 500 pcs. on tape & reel



tape acc. to IEC 60286-1



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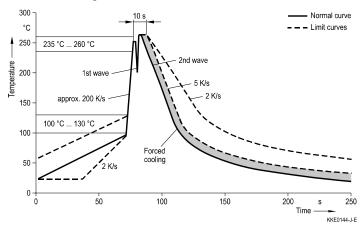
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Soldering parameter

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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