



Surge arrester

2-electrode arrester

Series/Type: EF2700X8S
Ordering code: B88069X8671****
Version/Date: Issue 05 / 2015-02-03

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Features

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

Applications

- Power supply
- Consumer electronics
- AC power line devices

Electrical specifications

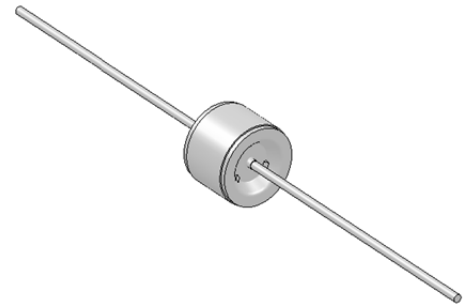
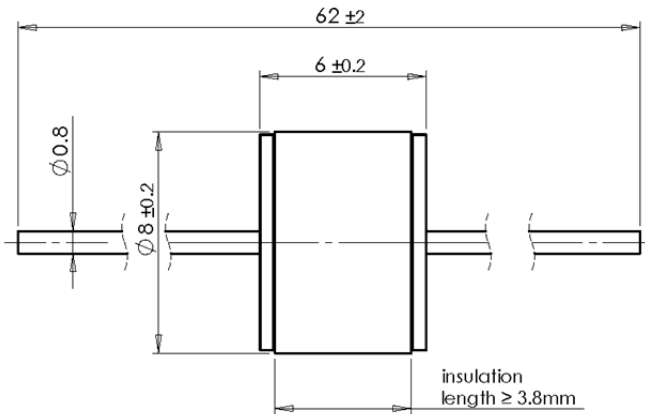
DC spark-over voltage ^{1) 2)}	2700	V
Tolerance	±15	%
Min.	2295	V
Max.	3105	V
Impulse spark-over voltage		
at 100 V/μs - for 99% of measured values	< 3600	V
- typical values of distribution	< 3100	V
at 1 kV/μs - for 99% of measured values	< 4000	V
- typical values of distribution	< 3300	V
Service life		
10 operations 50 Hz, 1 s	5	A
1 operation 50 Hz, 0.18 s (9 cycles)	35	A
10 operations [5x (+) & 5x (-)] 8/20 μs	5	kA
1 operation 8/20 μs	10	kA
Insulation resistance at 100 V _{DC}	> 10	GΩ
Capacitance at 1 MHz	< 1.5	pF
Arc voltage at 1 A	~ 35	V
Glow to arc transition current	< 0.3	A
Glow voltage	~ 180	V
AC withstand voltage (1 s)	1500	V
Weight	~ 1.5	g
Operation and storage temperature	-40 ... +125	°C
Climatic category (IEC 60068-1)	40/ 125/ 21	
Marking, red positive	EPCOS EF 2700 YY O EF - Series 2700 - Nominal voltage YY - Year of production O - Non radioactive	
Certification	UL 1449 (E319264)	

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

²⁾ In ionized mode

Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

Dimensional drawing in mm

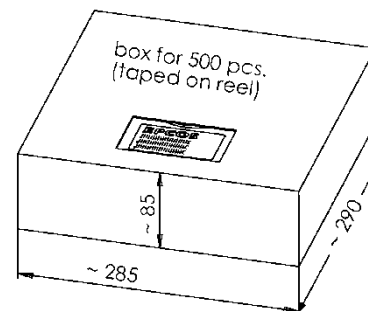
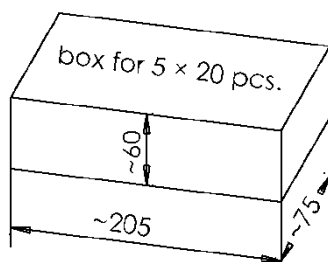
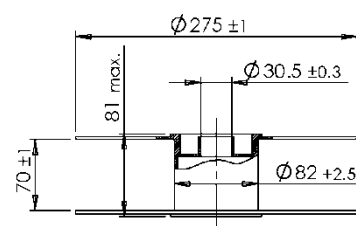
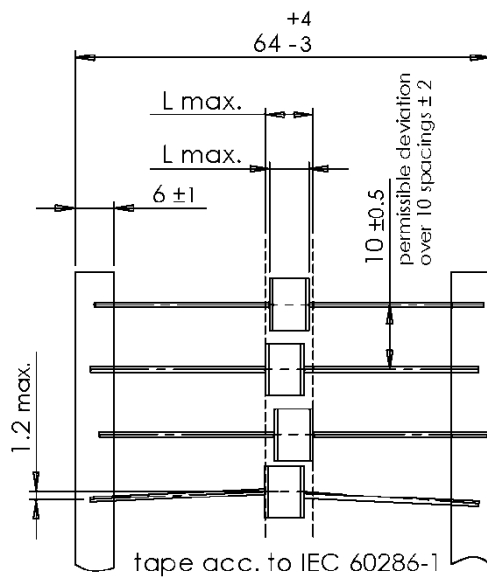


wires tin-plated

Ordering codes and packing advices

B88069X8671S102 = 100 pcs. on 5 taped stripes

B88069X8671T502 = 500 pcs. on tape and reel



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.
- 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.

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