



Surge arrester

2-electrode arrester

Series/Type: EF3200XS
Ordering code: B88069X7851****
Date: 2016-04-07
Version: 04

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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

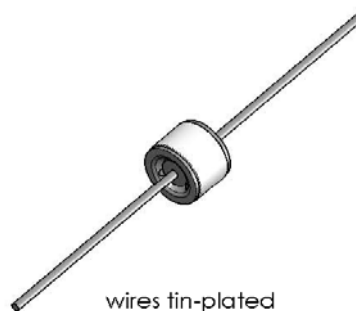
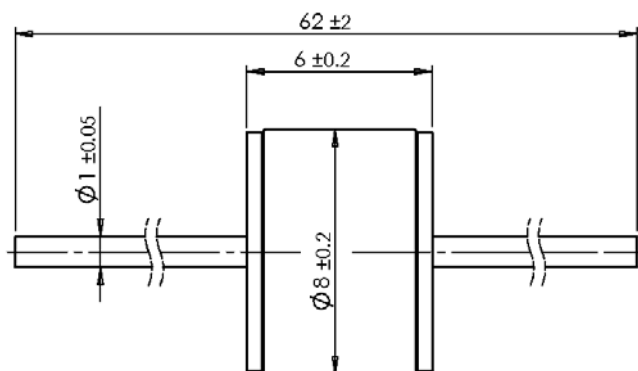
DC spark-over voltage ^{1) 2)}	3200	V
Tolerance	±20	%
Min.	2560	V
Max.	3840	V
Impulse spark-over voltage		
at 100 V/μs - for 99% of measured values	< 3600	V
- typical values of distribution	< 3400	V
at 1 kV/μs - for 99% of measured values	< 3800	V
- typical values of distribution	< 3600	V
Service life		
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	~ 45	V
Glow to arc transition current	< 0.3	A
Glow voltage	~ 160	V
AC withstand voltage (1 min.)	1600	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 3200 YY O EF - Series 3200 - Nominal voltage YY - Year of production O - Non radioactive	
Certifications	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.

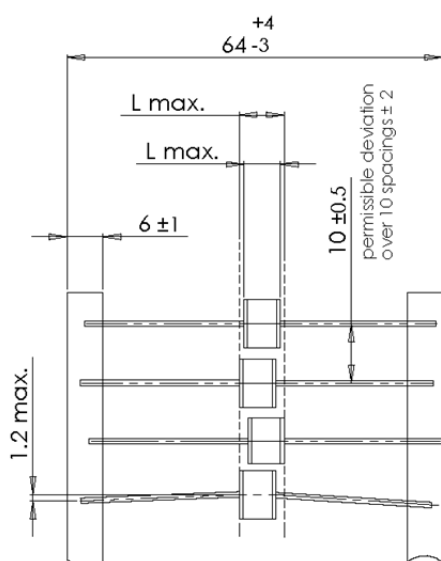
Dimensional drawing in mm



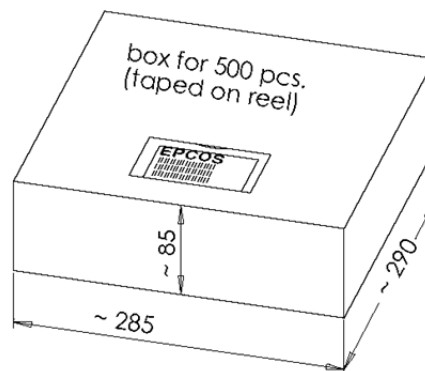
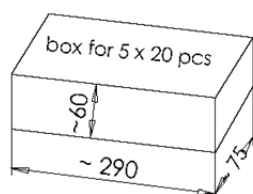
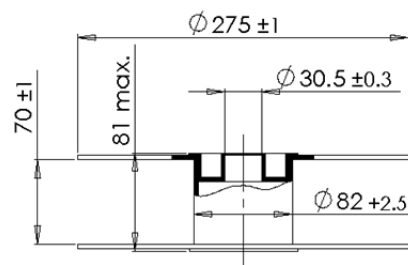
Ordering code and packing advice

B88069X7851S102 = 100 pcs. on 5 taped stripes

B88069X7851T502 = 500 pcs. on tape and reel



tape acc. to IEC 60286-1



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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