

Surge arrester



2-electrode arrester

Series/Type: **EM90XHC**
 Ordering code: **B88069X4293******
 Date: 2019-07-19
 Version: 02

Surge arrester

B88069X4293****

2-electrode arrester

EM90XHC

Features

- Small size
- Fast response time
- High current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

Applications

- Power supplies
- Antenna protection
- Air condition
- Modem
- Consumer electronics
- Dataline protection

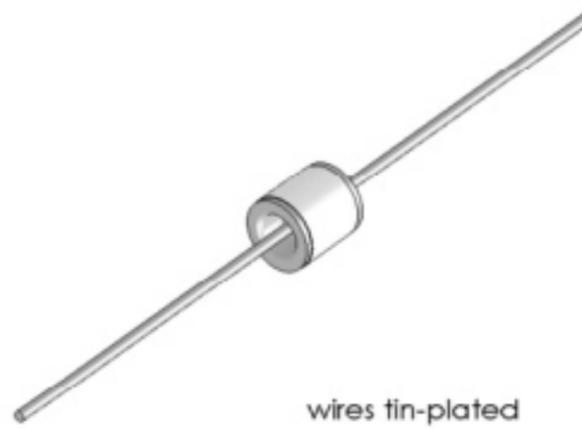
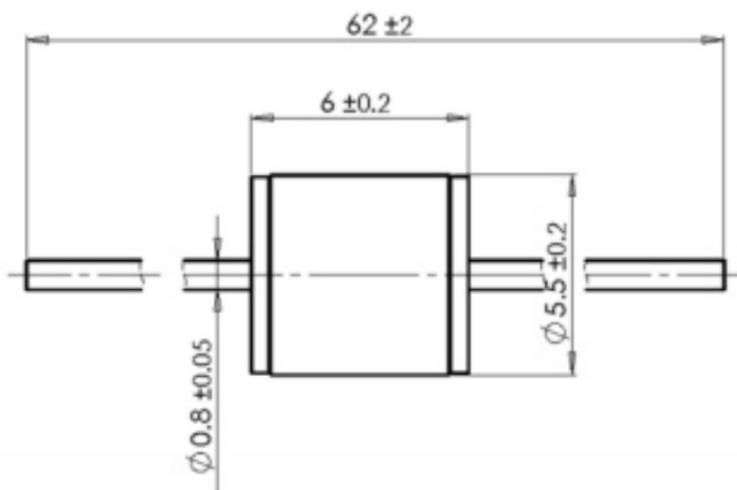
Electrical specifications

DC spark-over voltage ^{1) 2)}	90	V
Tolerance	±20	%
Min.	72	V
Max.	108	V
Impulse spark-over voltage		
at 100 V/μs - for 99% of measured values	< 400	V
- typical values of distribution	< 350	V
at 1 kV/μs - for 99% of measured values	< 600	V
- typical values of distribution	< 550	V
Service life		
10 operations 50 Hz, 1 s	10	A
1 operation 50 Hz, 0.18 s (9 cycles)	20	A
10 operations 8/20 μs	10	kA
10 operations 10/350 μs	1	kA
300 operations 10/1000 μs	100	A
Insulation resistance at 50 V _{DC}	> 1	GΩ
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A	~ 10	V
Glow to arc transition current	< 0.1	A
Glow voltage	~ 50	V
Weight	~ 1	g
Operation and storage temperature	-40 ... +125	°C
Climatic category (IEC 60068-1)	40/125/21	
Marking, blue positive	EPCOSEM 90 YY O EM - Series 90 - Nominal voltage YY - Year of production O - Non radioactive	

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

²⁾ In ionized mode

Dimensional drawing in mm

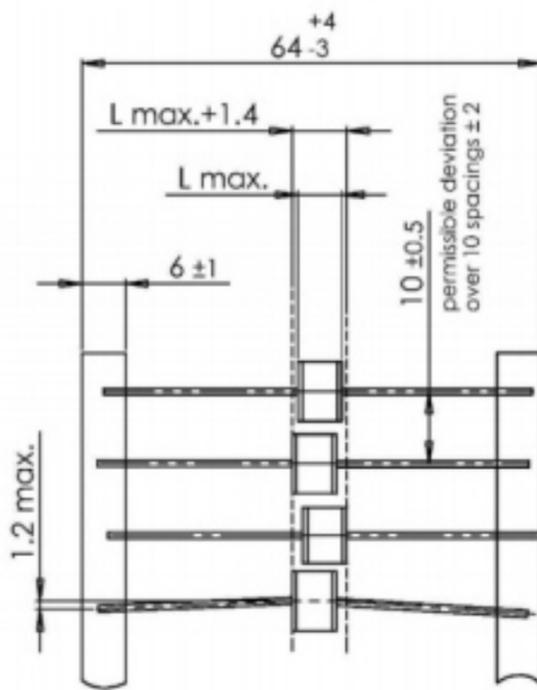


wires tin-plated

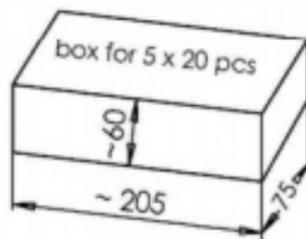
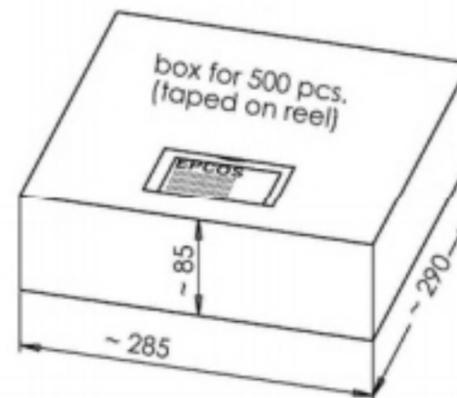
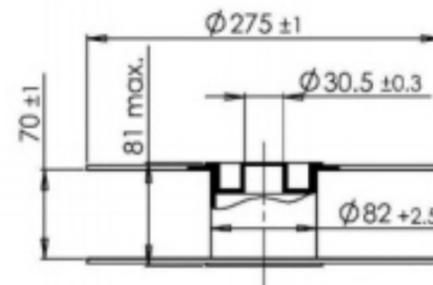
Ordering codes and packing advices

B88069X4293S102 = 100 pcs. on 5 taped stripes

B88069X4293T502 = 500 pcs. on tape and reel

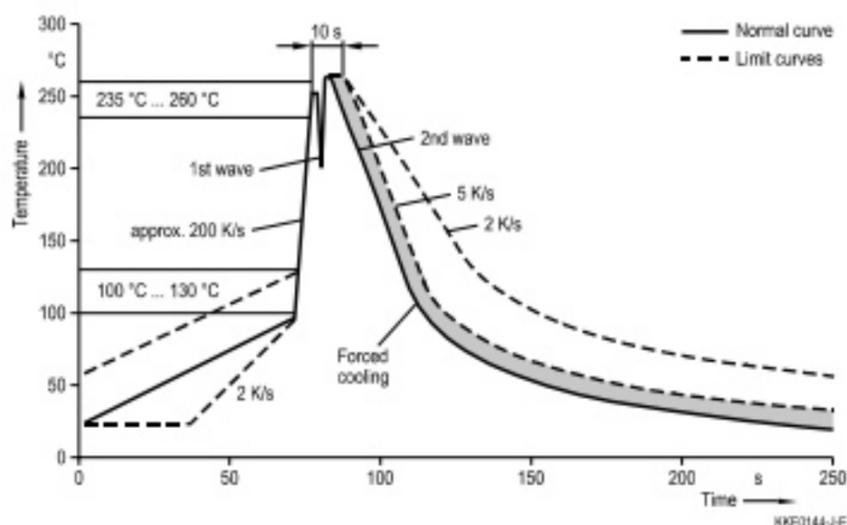


tape acc. to IEC 60286-1



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.