

# Surge arrester

3-electrode arrester

Series/Type: T83-A90X

Ordering code: B88069X8300\*\*\*\*

Date: 2015-09-25

Version: 07

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## 3-electrode arrester T83-A90X

#### **Features**

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

# **Applications**

- Telecommunications
- Line protection
- Base station protection

## **Electrical specifications**

DC spark-over voltage	1) 2) 3)		90 ±20	V %
at 1 kV/µs	- for 99% of measure - typical values of d - for 99% of measure - typical values of d	istribution red values	< 400 < 300 < 550 < 500 10 40 10	V V V V A A kA
1 operation 300 operations [	150× (+) & 150× (-)]	10/350 μs <sup>4)</sup> 10/1000 μs <sup>4)</sup>	2 200	kA A
Insulation resistance at 50 V <sub>DC</sub> <sup>3)</sup> Capacitance at 1 MHz <sup>3)</sup>			> 10 < 1.5	GΩ pF
Transverse delay time 5)			< 0.2	μs
Arc voltage at 1 A Glow to arc transition cu Glow voltage	urrent		~ 15 < 0.5 ~ 70	V A V
Weight			~ 2	g
Operation and storage temperature			-40 <b>+</b> 90	°C
Climatic category (IEC 60068-1)			40/090/21	
Marking, blue negative			EPCOS 90 YY O 90 - Nominal voltage YY - Year of producti O - Non radioactive	ion
Certifications			UL 497B (E163070)	W.
B 1			•	

Remarks on next page

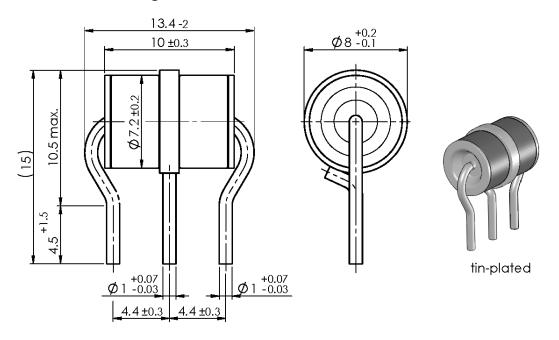


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- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Tip or ring electrode to center electrode
- <sup>4)</sup> Total current through center electrode, half value through tip respectively ring electrode.
- Test according to ITU-T Rec. K.12

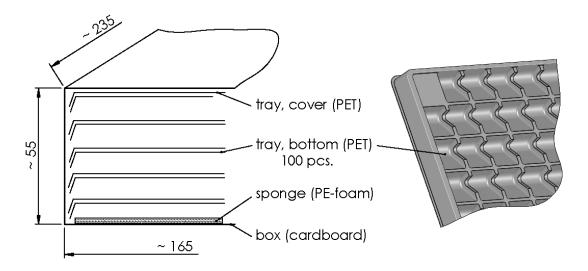
Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

## Dimensional drawing in mm



## Ordering code and packing advice

B88069X8300**B502** = 500 pcs. on trays

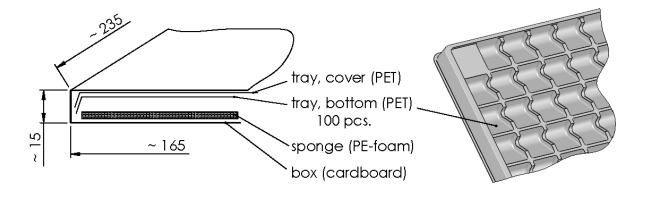




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## Ordering code and packing advice

B88069X8300**B102** = 100 pcs. on trays

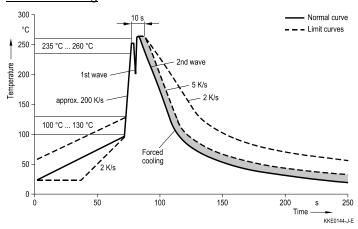




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#### Soldering parameter

#### 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	<3s	

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.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- 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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