



Surge arrester

3-electrode arrester

Series/Type:	T23-A350X
Ordering code:	B88069X7200B502
Date:	2016-04-26
Version:	07

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Features

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

Applications

- Line protection
- Station protection
- Base stations

Electrical specifications

DC spark-over voltage ^{1) 2) 3)}	350	V
Tolerance	±20	%
Min.	280	V
Max.	420	V
Impulse spark-over voltage ³⁾		
at 100 V/μs - for 99% of measured values	< 650	V
- typical values of distribution	< 550	V
at 1 kV/μs - for 99% of measured values	< 700	V
- typical values of distribution	< 600	V
Service life		
10 operations 50 Hz; 1 s ⁴⁾	10	A
1 operation 50 Hz; 0.18 s (9 cycl.) ⁴⁾	50	A
10 operations 8/20 μs ⁴⁾	20	kA
1 operation 8/20 μs ⁴⁾	25	kA
5 operations 10/250 μs ⁴⁾	5	kA
1 operation 10/350 μs ⁴⁾	5	kA
300 operations 5/320 μs ^{4) 5)}	200	A
Insulation resistance at 100 V _{DC} ³⁾	> 10	GΩ
Capacitance at 1 MHz ³⁾	< 1.5	pF
Transverse delay time ⁶⁾	< 0.2	μs
Arc voltage at 1 A	~ 35	V
Glow to arc transition current	< 1	A
Glow voltage	~ 200	V
Weight	~ 2.2	g
Operation and storage temperature	-40 ... +125	°C
Climatic category (IEC 60068-1)	40/125/21	
Marking, blue negative	EPCOS 350 YY O 350 - Nominal voltage YY - Year of production O - Non radioactive	

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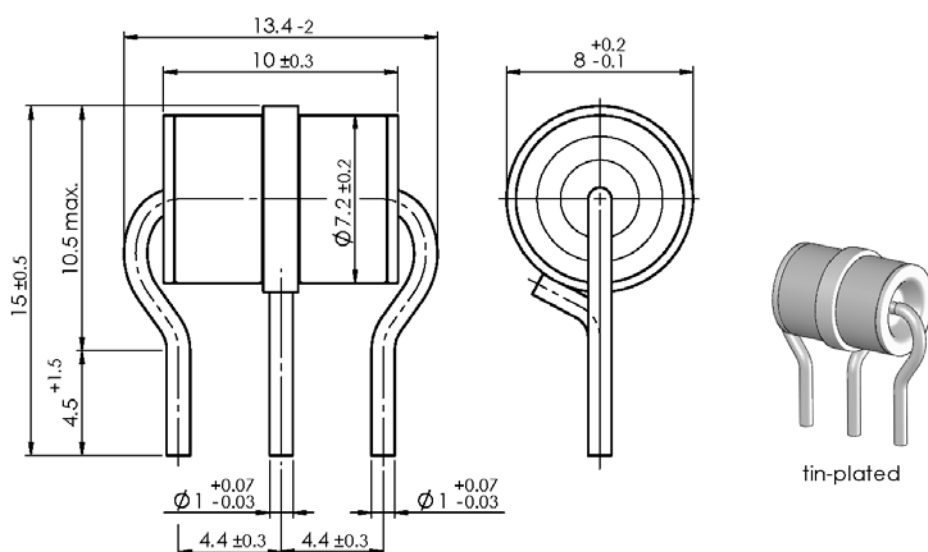
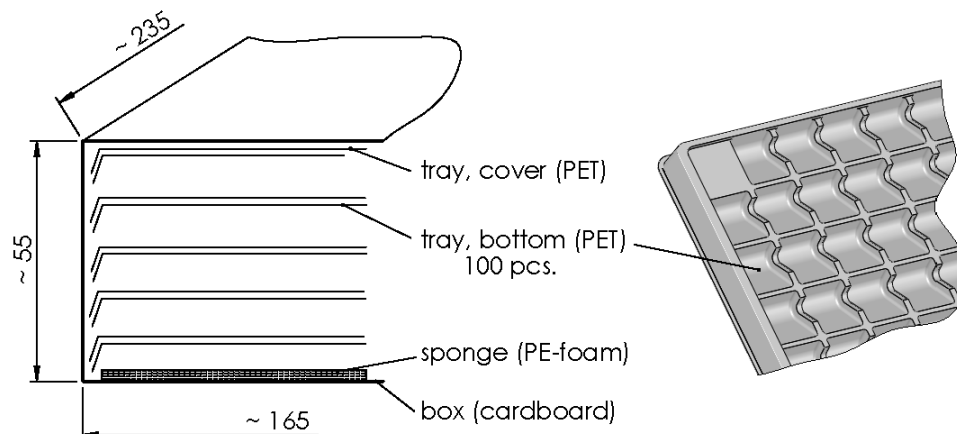
Certifications

UL 497B (E163070)



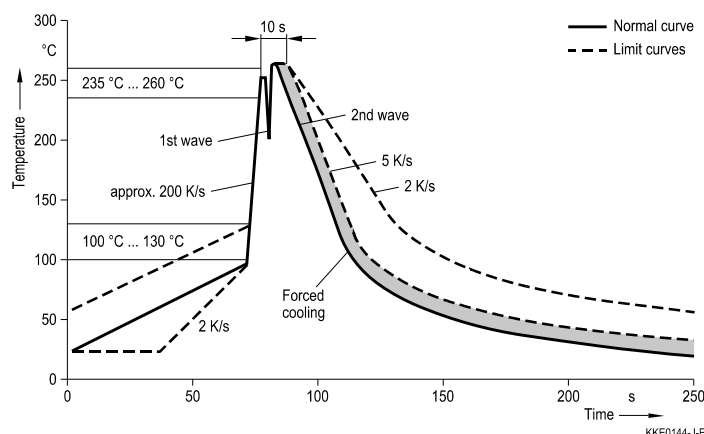
- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Tip or ring electrode to center electrode
- 4) Total current through center electrode, half value through tip respectively ring electrode.
- 5) Test generator 4 kV, 10/700 μ s, 40 Ω
- 6) Test according to ITU-T Rec. K.12

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
B88069X7200B502 = 500 pcs. on trays


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.
- 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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