Surge arrester

2-electrode arrester

Series/Type:	**A81-H11XPD**
Ordering code:	**B88069X8551******
Date:	2026-04-01
Version:	04

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Surge arrester — B88069X8551****

2-electrode arrester — A81-H11XPD

Features

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

Applications

- AC power line devices – class II

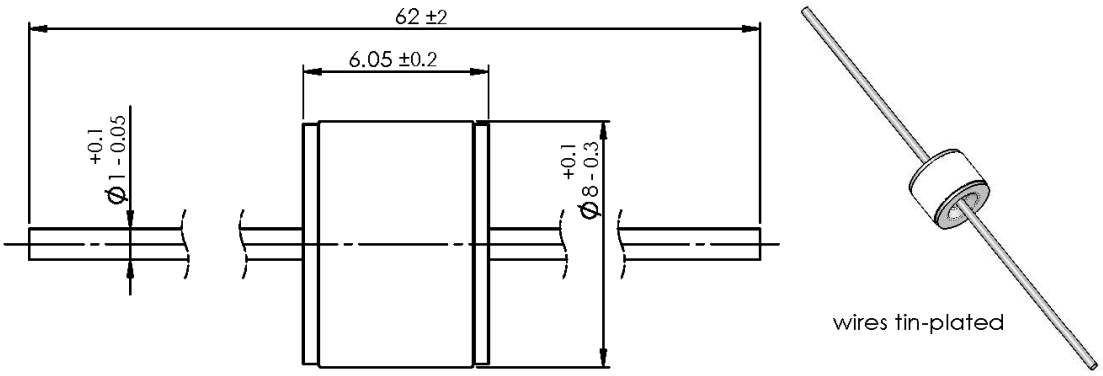
Electrical specifications

DC spark-over voltage [1) 2)] - Tolerance		1100 ±30	V %
Front of wave spark-over voltage - at 1.2/50 µs, 6 kV; for 99% of measured values		< 2200	V
Breakdown time - typical values		< 100 < 20	ns ns
Insulation resistance at 100 V_{DC}		> 1	GΩ
Class II [3)] Max. continuous operating voltage at 50/60 Hz Nominal discharge current 8/20 µs Maximum discharge current 8/20 µs	 U_c I_n I_{max}	 510 10 20	 V kA kA
Weight		~ 3	g
Operation and storage temperature		–40 ... +125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, blue positive		**TDK 1100 YY** 1100 - Nominal voltage YY - Year of production	
Certifications		UL 1449 (E319264)	

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In darkness without storage
3) Test sequence in accordance with IEC 61643-11.
Follow current has to be avoided by an appropriate external circuit (e.g. varistor in series).

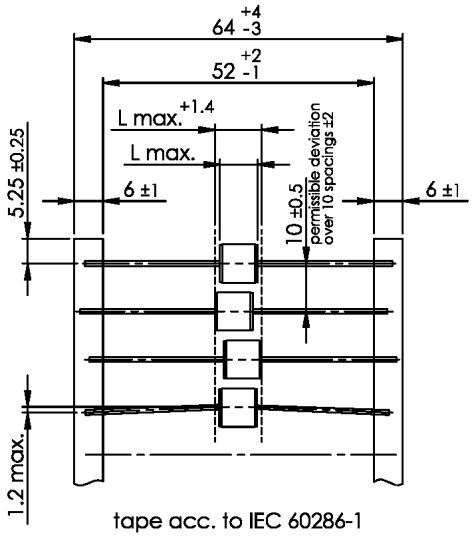
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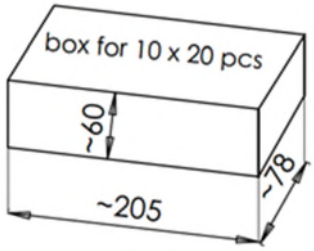
Dimensional drawing in mm

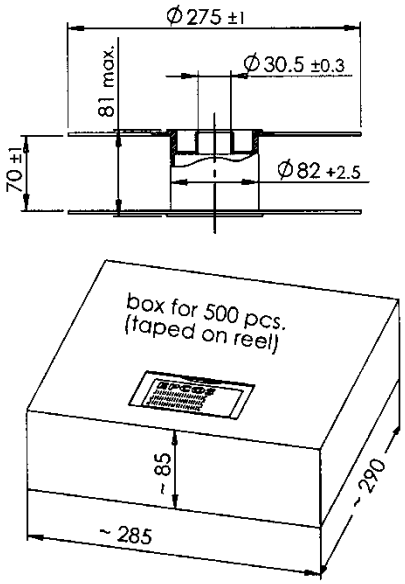


Ordering codes and packing advices

*B88069X8551**S202** = 200 pcs. on 10 taped stripes* *B88069X8551**T502** = 500 pcs. on tape & reel*



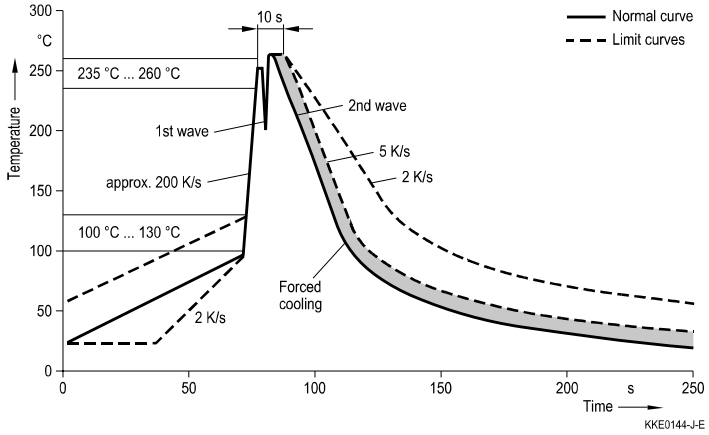




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Soldering parameter

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	< 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.
- 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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Release 2024-02

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