Surge arrester

2-electrode arrester

Series/Type:	**N81-A600X**
Ordering code:	**B88069X2830******
Date:	2019-03-27
Version:	05

Surge arrester — B88069X2830****

2-electrode arrester — N81-A600X

Features

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

Applications

- Line protection
- Consumer electronics

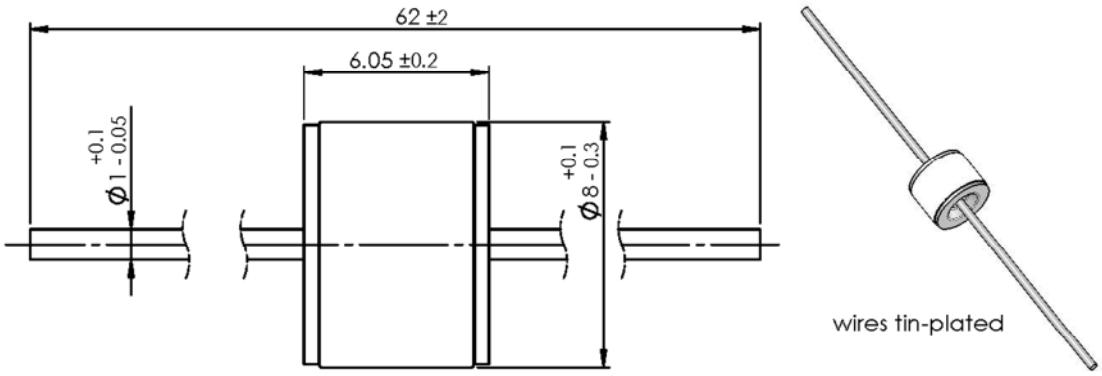
Electrical specifications

DC spark-over voltage [1) 2)]	600	V
Tolerance	±20	%
Min.	480	V
Max.	720	V
Impulse spark-over voltage		
at 100 V/µs - for 99% of measured values	< 1100	V
at 100 V/µs - typical values of distribution	< 950	V
at 1 kV/µs - for 99% of measured values	< 1400	V
at 1 kV/µs - typical values of distribution	< 1100	V
Service life		
10 operations, 50 Hz, 1 s	10	A
1 operation, 50 Hz, 0.18 s (9 cycles)	65	A
10 operations, 8/20 µs	10	kA
1 operation, 8/20 µs	12	kA
1 operation, 10/350 µs	1	kA
Insulation resistance at 100 V_{DC}	> 10	GΩ
Capacitance at 1 MHz	< 1.5	pF
Arc voltage at 1 A	~ 15	V
Glow to arc transition current	< 0.5	A
Glow voltage	~ 60	V
Weight	~ 1.5	g
Operation and storage temperature	–40 ... +125	°C
Climatic category (IEC 60068-1)	40/125/21	
Marking, red negative	**EPCOS 600 YY O** 600 - Nominal voltage YY - Year of production O - Non radioactive	
Certification	UL 497B (E163070)	

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode

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

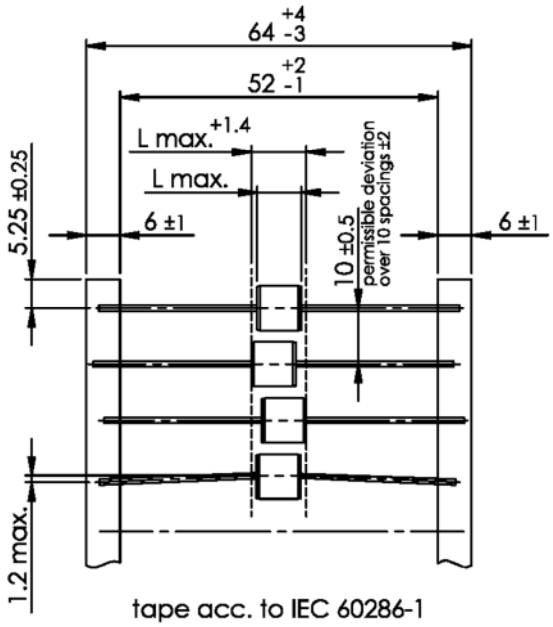
Dimensional drawing in mm

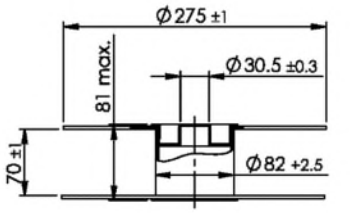


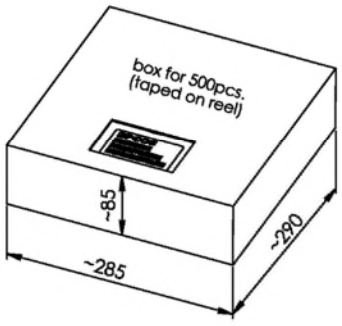
Ordering codes and packing advices

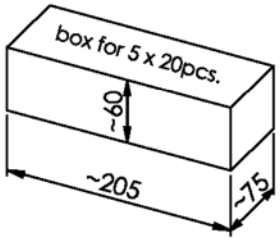
*B88069X2830**S102** = 100 pcs. on 5 taped stripes*

*B88069X2830**T502** = 500 pcs. on tape & reel*



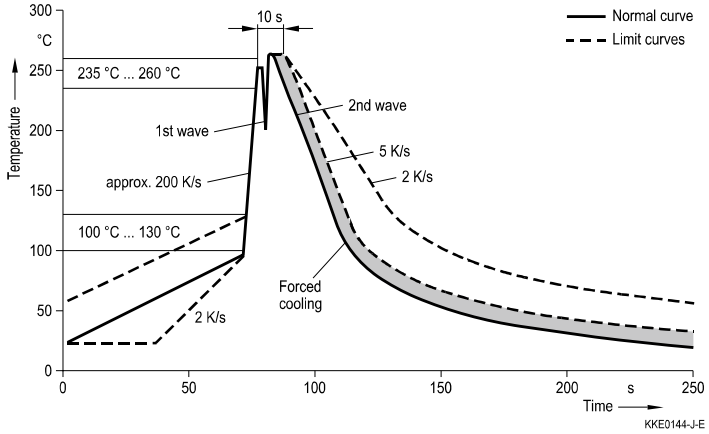






Soldering parameter

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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