Surge arrester

2-electrode arrester

Series/Type:	**G41-H36C**
Ordering code:	**B88069X4643T602**
Date:	2019-04-16
Version:	03

Surge arrester **B88069X4643T602**

2-electrode arrester **G41-H36C**

Features

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

Applications

- Branch exchange
- Line protection
- Subscriber protection
- Alarm system

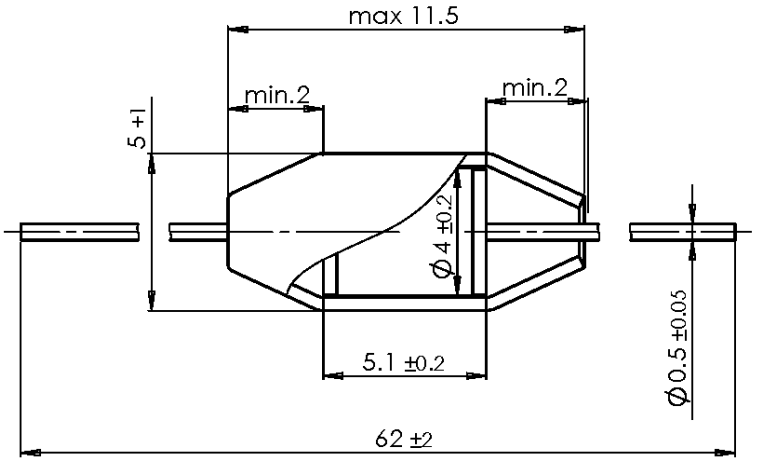
Electrical specifications

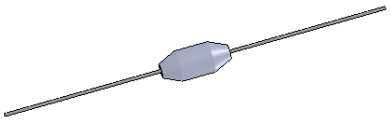
DC spark-over voltage [1) 2)]	3600	V
Tolerance	±20	%
Min.	2880	V
Max.	4320	V
Impulse spark-over voltage		
at 100 V/µs - for 99% of measured values	< 4600	V
- typical values of distribution	< 4400	V
at 1 kV/µs - for 99% of measured values	< 4800	V
- typical values of distribution	< 4600	V
Service life		
300 operations 8/20 µs	100	A
3 operations 8/20 µs	1	kA
1 operation 8/20 µs	2	kA
Insulation resistance at 100 V_{DC}	> 1	GΩ
Capacitance at 1 MHz	< 0.5	pF
Arc voltage at 1 A	~ 15	V
Glow to arc transition current	< 1.0	A
Glow voltage at 0.1 A	~ 80	V
AC withstand voltage (3 s) [3)]	1800	V
Weight	~ 0.25	g
Operation and storage temperature	–40 ... +125	°C
Climatic category (IEC 60068-1)	40/125/21	
Marking	without	
Certifications	UL 1449 (E319264)	

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode
3) Test conditions in acc. with MIL-STD-202G at 25 ±5 °C, relative humidity of ≤ 55% and atmospheric pressure 860 ... 1100mbar.

Terms and current waveforms in accordance with: ITU-T Rec. K. 12; IEC 61643-21; 61643-311.

Dimensional drawing in mm

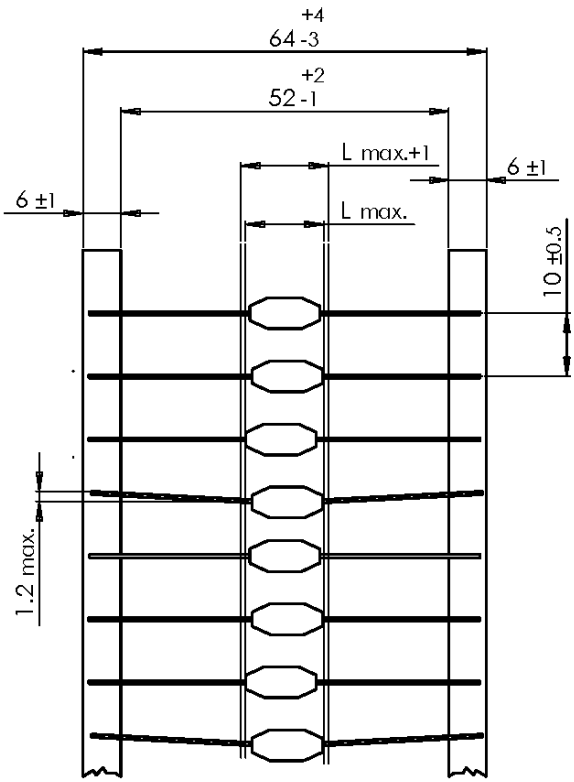


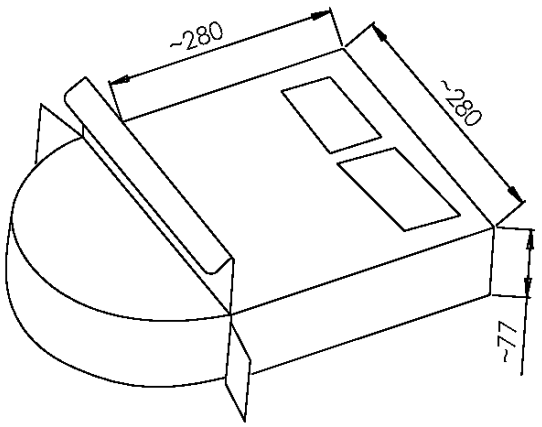


wires tin-plated

Ordering code and packing advice

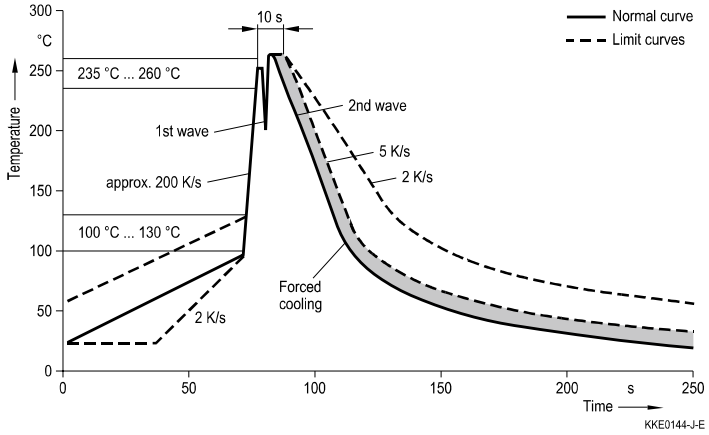
*B88069X4643**T602** = 600 pcs. on tape & reel*





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.
- Electromagnetic fields and ionizing radiation may affect the electrical characteristics of the arrester. The impact of such effects (inductive and capacitive field distortion from adjacent components) must be avoided by appropriate circuit design measures.
- 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 2018-10

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