Surge arrester

2-electrode arrester

Series/Type:	**EC600X**
Ordering code:	**B88069X0780S202**
Date:	2026-04-01
Version:	09

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Features

- Standard 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
- Tuner
- Antenna protection

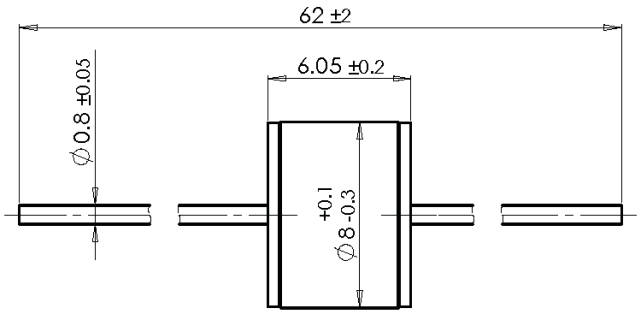
Electrical specifications

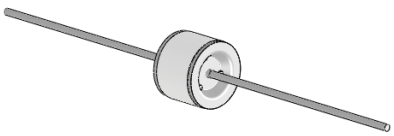
DC spark-over voltage [1) 2)]		600	V
Tolerance		–10 / +20	%
Min.		540	V
Max.		720	V
Impulse spark-over voltage			
at 100 V/µs	- for 99% of measured values	< 1200	V
	- typical values of distribution	< 1000	V
at 1 kV/µs	- for 99% of measured values	< 1300	V
	- typical values of distribution	< 1100	V
Service 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	5	kA
1 operation	8/20 µs	10	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		~ 12	V
Glow to arc transition current		< 0.1	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 positive		**TDK EC 600 YY** EC - Series 600 - Nominal voltage YY - Year of production	
Certifications		UL 497B (E163070) UL 1449 (E319264)	

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

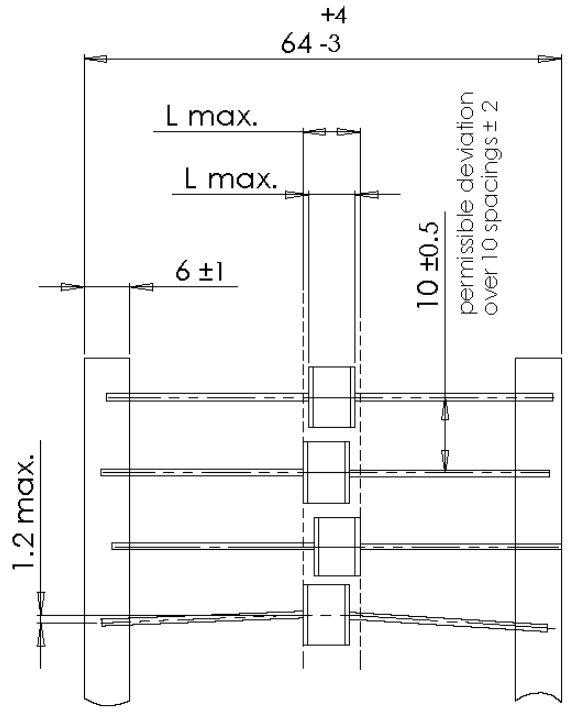




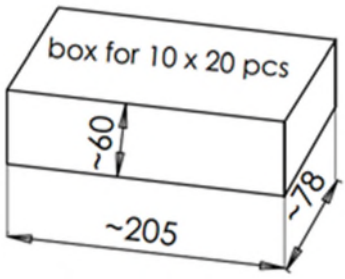
tin-plated

Ordering codes and packing advices

*B88069X0780**S202** = 200 pcs. on 10 taped stripes*

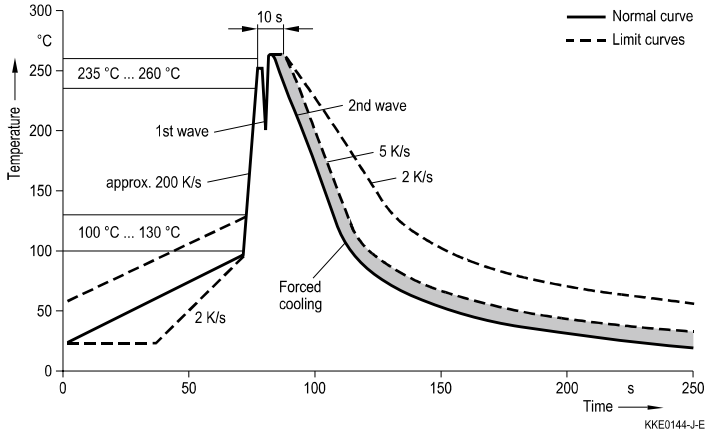


tape acc. to IEC 60286-1



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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