

Surge arrester

2-electrode arrester

 Series/Type:
 EC90XG

 Ordering code:
 B88069X5110T502

 Date:
 2019-07-09

 Version:
 05

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EC90XG

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Surge arrester

2-electrode arrester

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)} Tolerance Min. Max.	90 ±20 72 108	V % V V	
Impulse spark-over voltage at 100 V/µs - for 99% of measured values - typical values of distribution at 1 kV/µs - for 99% of measured values - typical values of distribution	< 500 < 450 < 600 < 550	V V V V	
Service life10 operations50 Hz, 1 s1 operation50 Hz, 0.18 s (9 cycles)10 operations8/20 μs1 operation8/20 μs1 operation10/350 μs300 operations10/1000 μs	5 20 5 10 1 100	A A kA kA kA A	
Insulation resistance at 50 V _{DC} Capacitance at 1 MHz	> 10	GΩ pF	
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 12 < 0.8 ~ 55	V A V	
Weight	~ 1.5	g	
Operation and storage temperature	-40 +125	°C	
Climatic category (IEC 60068-1)	40/125/21		
Marking, red positive	EC - Series 90 - Nominal vol YY - Year of proc	90 - Nominal voltage YY - Year of production	

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.

PPD AB PD / PPD AB PM

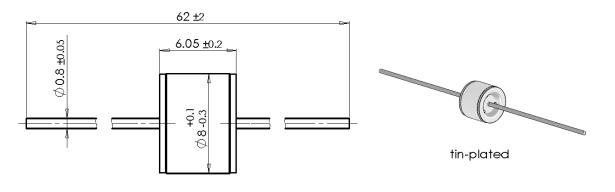


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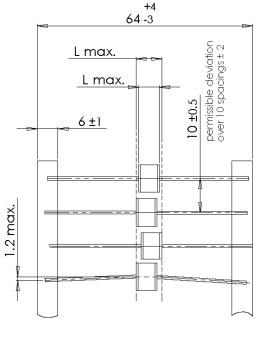
B88069X5110T502 EC90XG

Dimensional drawing in mm

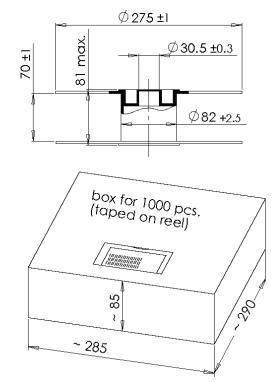


Ordering codes and packing advices

B88069X5110**T502** = 500 pcs. on tape and reel



tape acc. to IEC 60286-1



②TDK

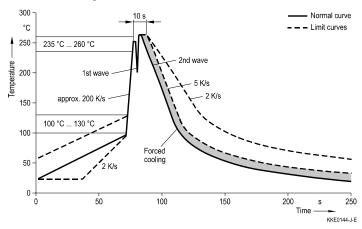
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Soldering parameter

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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