

Surge arrester

2-electrode arrester

Series/Type: Ordering code:	EM420X B88069X6090****
Date:	2019-07-19
Version:	03

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Surge arrester

2-electrode arrester

B88069X6090****

EM420X

Features

- Small size
- Fast response time
- High current handling capability
- Stable performance over service life
- Low capacitance and insertion loss
- High insulation resistance
- RoHS-compatible

Applications

- Power supplies
- Antenna protection
- Air condition
- Modem
- Consumer electronics
- Dataline protection

Electrical specifications			
DC spark-over voltage ^{1) 2)} Tolerance Min. Max.		420 ±20 336 504	V % V V
- typ at 1 kV/µs - for	99% of measured values ical values of distribution 99% of measured values ical values of distribution	< 850 < 800 < 850 < 900	V V V V
Service life 10 operations 1 operation 10 operations 1 operation	50 Hz, 1 s 50 Hz, 0.18 s (9 cycles) 8/20 μs 8/20 μs	2.5 5 2.5 5	A A kA kA
Insulation resistance at 100	V _{DC}	> 1	GΩ
Capacitance at 1 MHz		< 1	pF
Arc voltage at 1 A Glow to arc transition current Glow voltage		~ 10 < 0.3 ~ 60	V A V
Weight		~ 1	g
Operation and storage temperature		-40 +125	°C
Climatic category (IEC 6006	68-1)	40/125/21	
Marking, red positive		EPCOS EM 420 YY OEM- Series420- Nominal voltageYY- Year of productionO- Non radioactive	

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



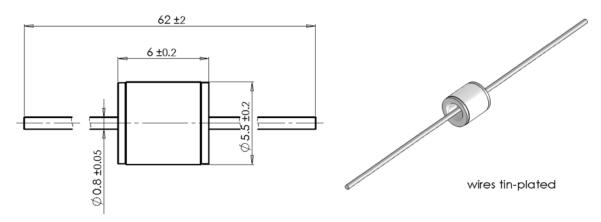
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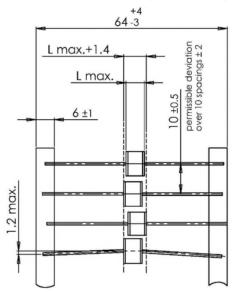
EM420X

Dimensional drawing in mm

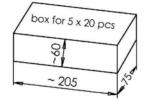


Ordering codes and packing advices

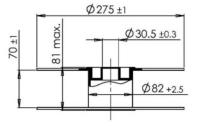
B88069X6090**S102** = 100 pcs. on 5 taped stripes

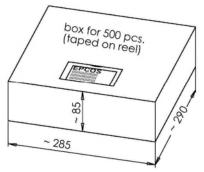


tape acc. to IEC 60286-1



B88069X6090**T502** = 500 pcs. on tape and reel





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②TDK

Surge arrester

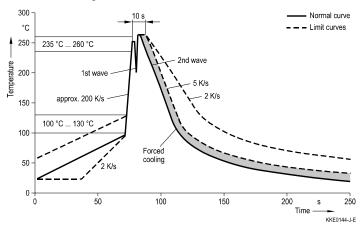
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Soldering parameter

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 2018-10