



Surge arrester

2-electrode arrester

Series/Type: A71-H62XS
Ordering code: B88069X8261****
Date: 2019-08-20
Version: 03


Features

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

Applications

- Modem
- Power supply
- Consumer electronics

Electrical specifications

DC spark-over voltage ^{1) 2)}	5270 ... 7440	V % V V
Impulse spark-over voltage at 7.5 kV/μs - for 99% of measured values - typical values of distribution	< 9000 < 7700	V V
Service life ³⁾ 10 operations [5x (+) & 5x (-)] 8/20 μs	5	kA
Insulation resistance at 100 V _{DC}	> 10	GΩ
Capacitance at 1 MHz	< 0.9 ⁴⁾	pF
Arc voltage at 1 A	~ 20	V
Glow to arc transition current	< 1	A
Glow voltage	~ 180	V
Weight	~ 1.5	g
Operation and storage temperature	-40 ... +125	°C
Climatic category (IEC 60068-1)	40/125/21	
Marking, green positive	EPCOS 6200 YY O 6200 - Nominal voltage YY - Year of production O - Non radioactive	
Certifications	UL 1449 (E319264)	

¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

²⁾ In ionized mode

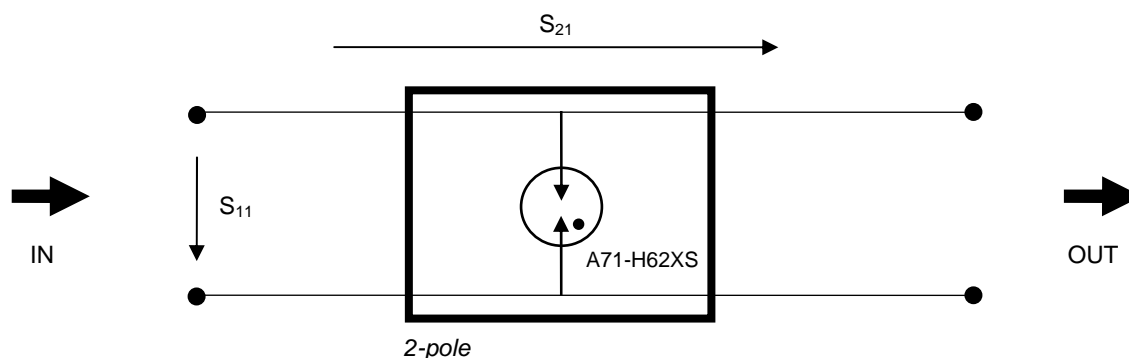
³⁾ After service life arrester has to meet:
Voltage withstand test AC 3700 V, 1 s

⁴⁾ The capacitance value is valid for bare arrester. Wires and bending alter the capacitance.
It is the responsibility of the user to consider the influence of the wires inside his application.

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

S-parameters

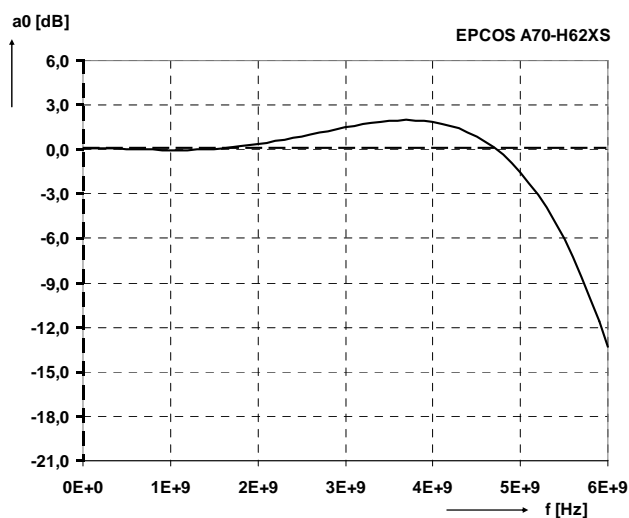
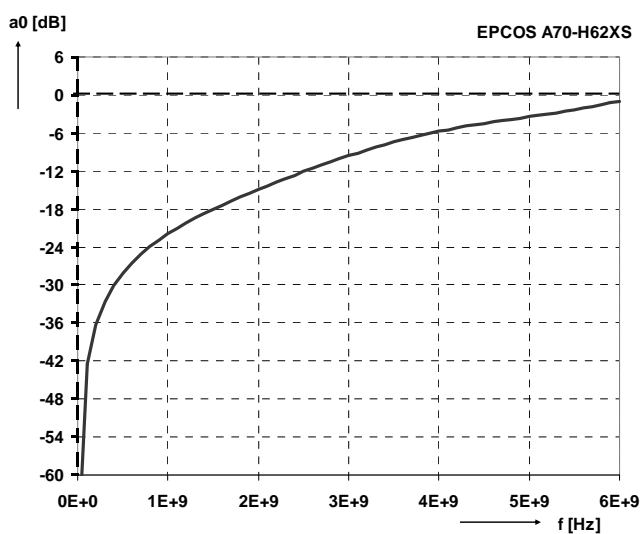
Circuit diagram:



Electrical specifications according circuit diagram:

Input port voltage reflection coefficient S_{11}
(typical values of distribution)

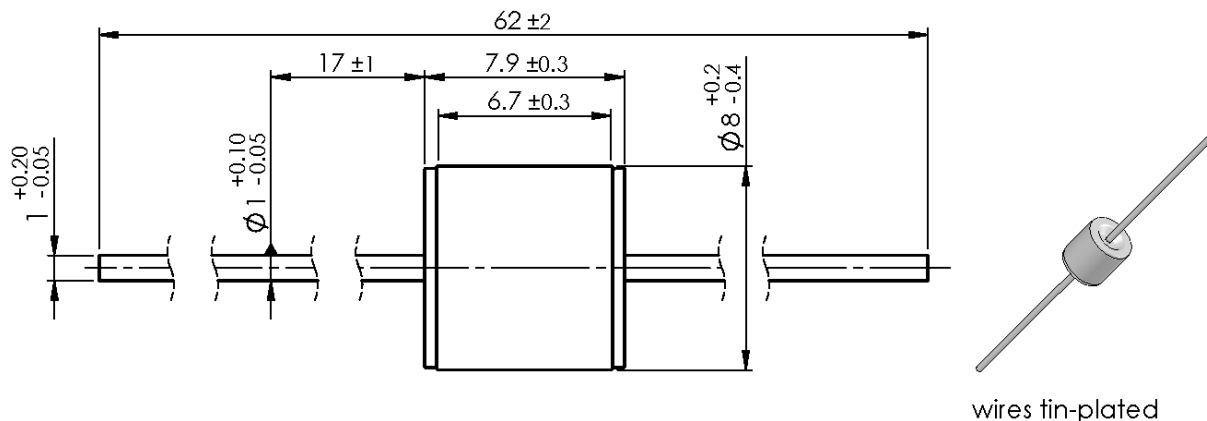
Forward voltage gain S_{21}
(typical values of distribution)



Frequency	S_{11}
1.00 GHz	-22.0 dB
1.40 GHz	-18.8 dB
1.80 GHz	-16.1 dB
2.10 GHz	-14.3 dB
2.45 GHz	-12.4 dB
2.80 GHz	-10.6 dB
3.10 GHz	-9.2 dB
3.50 GHz	-7.4 dB
4.00 GHz	-5.7 dB
5.00 GHz	-3.4 dB
6.00 GHz	-1.2 dB

Frequency	S_{21}
1.00 GHz	0.0 dB
1.40 GHz	0.0 dB
1.80 GHz	0.2 dB
2.10 GHz	0.5 dB
2.45 GHz	0.8 dB
2.80 GHz	1.3 dB
3.10 GHz	1.6 dB
3.50 GHz	2.0 dB
4.00 GHz	1.9 dB
5.00 GHz	-1.6 dB
6.00 GHz	-13.4 dB

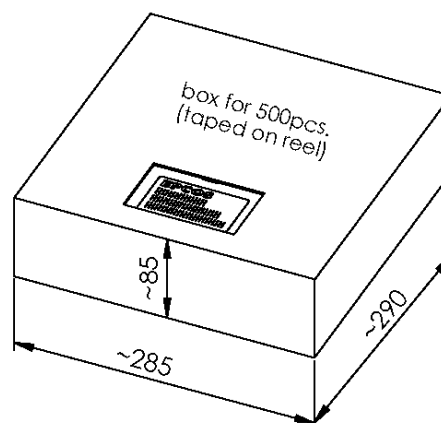
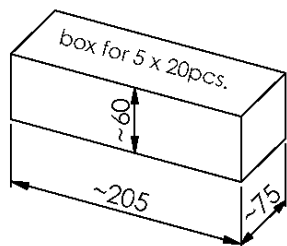
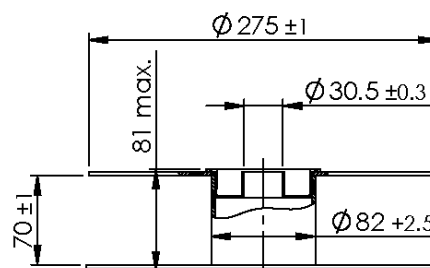
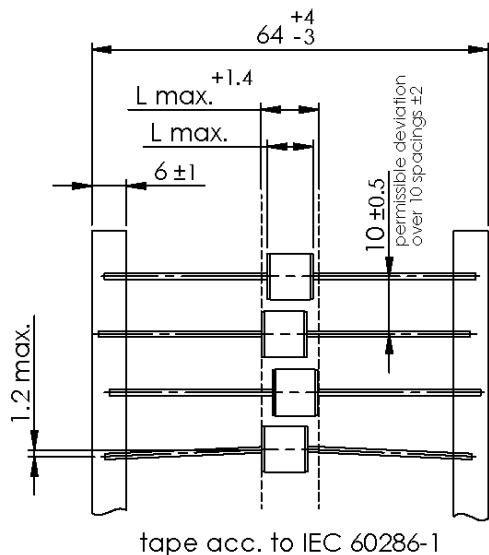
Dimensional drawing in mm



Ordering codes and packing advices

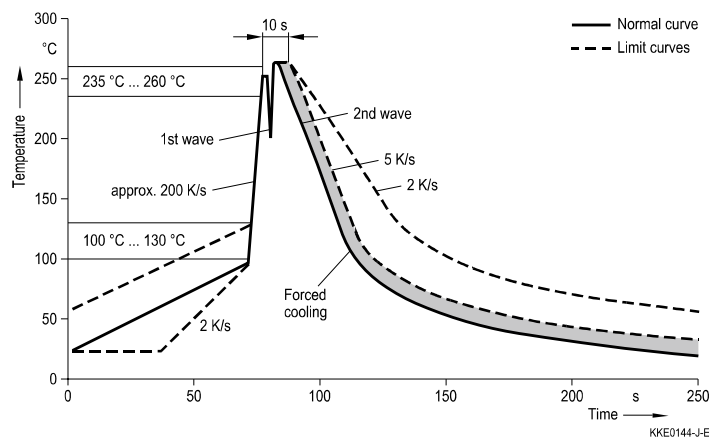
B88069X8261S102 = 100 pcs. on 5 taped stripes

B88069X8261T502 = 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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