Surge arrester

2-electrode arrester

Series/Type:	**M51-A800XP**
Ordering code:	**B88069X4781******
Date:	2019-04-18
Version:	05

Surge arrester — B88069X4781****

2-electrode arrester — M51-A800XP

Features

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

Applications

- AC power lines
- Class II (class C) - requirements

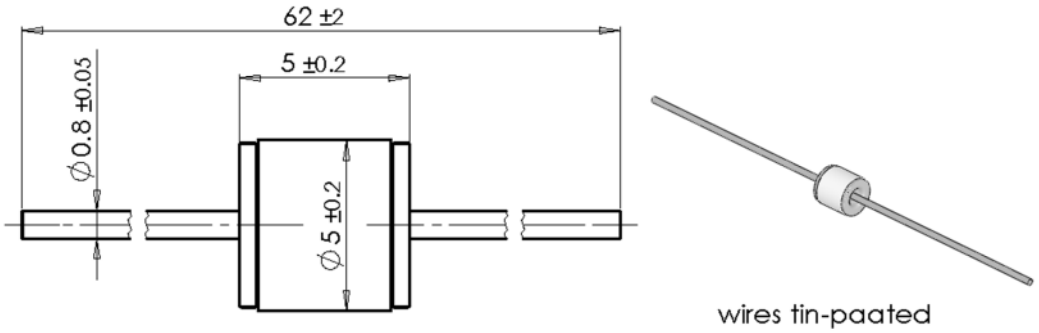
Electrical specifications

DC spark-over voltage [1) 2)]		> 600	V
Impulse spark-over voltage			
- at 1 kV/µs	- for 99% of measured values	< 1200	V
	- typical values of distribution	< 1100	V
- at 5 kV/µs	- for 99% of measured values	< 1500	V
	- typical values of distribution	< 1200	V
- at 1.2/50 µs, 6 kV, for 99% of measured values		< 1500	V
Breakdown time		< 100	ns
- typical values		< 20	ns
Insulation resistance at 100 V_{DC}		> 1	GΩ
Class II according to IEC 61643-11			
Max. continuous operating voltage at 50/60 Hz	U_c	255	V
Nominal discharge current 8/20 µs	I_n	3	kA
Maximum discharge current 8/20 µs	I_{max}	3	kA
Follow current at 50/60 Hz	I_f	5	A
Weight		~ 3	g
Operation and storage temperature		–40 ... +125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, blue positive		**EPCOS 800 YY O** 800 - Nominal voltage YY - Year of production O - 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.

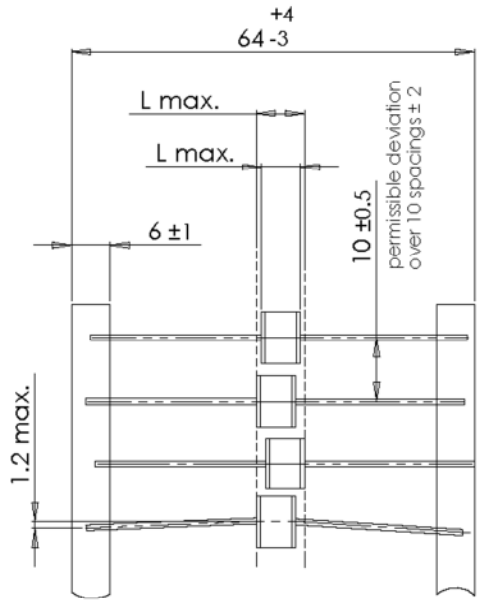
Dimensional drawing in mm



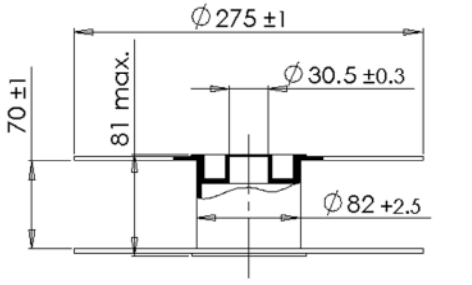
Ordering codes and packing advices

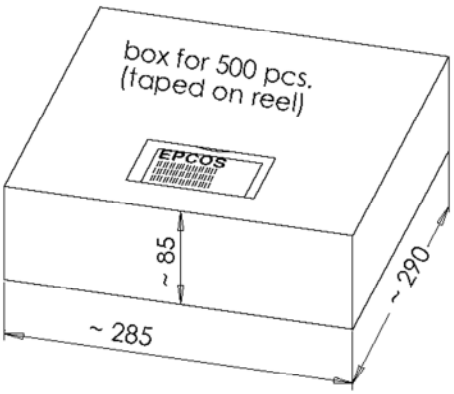
*B88069X4781**S102** = 100 pcs. on 5 taped stripes*

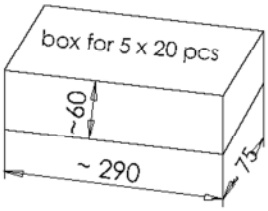
*B88069X4781**T502** = 500 pcs. on tape & reel*



tape acc. to IEC 60286-1

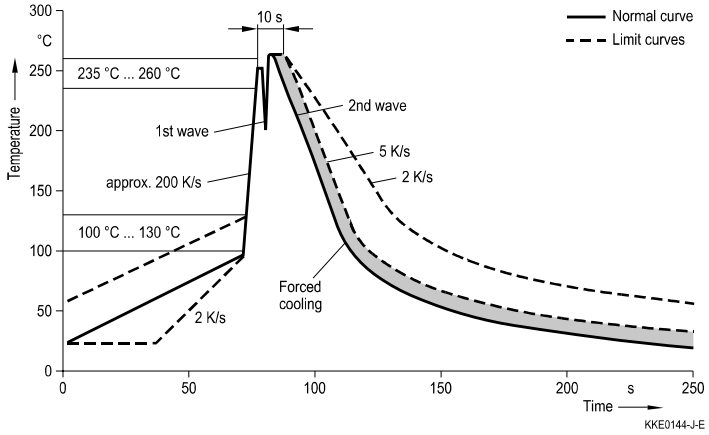






Soldering parameter

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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