Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

Surge arrester

2-electrode arrester

Series/Type: **EM300X**
Ordering code: **B88069X0800******
Version/Date: Issue 08 / 2014-11-03

EPCOS AG is a TDK Group Company.

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

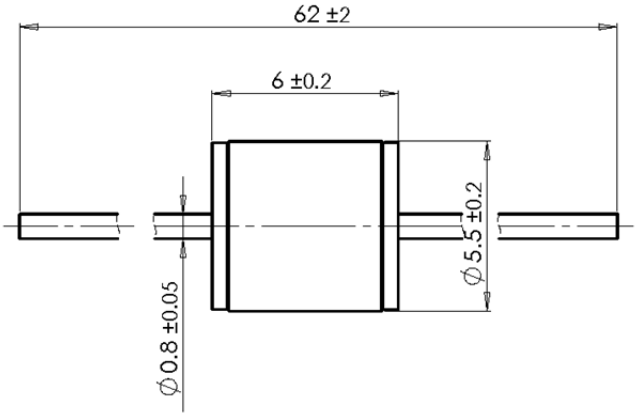
Electrical specifications

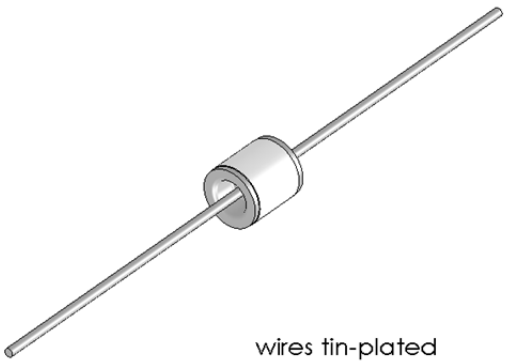
DC spark-over voltage [1) 2)]		300	V
Tolerance		-10 / +20	%
Min.		270	V
Max.		360	V
Impulse spark-over voltage			
at 100 V/µs	- for 99% of measured values	< 700	V
	- typical values of distribution	< 600	V
at 1 kV/µs	- for 99% of measured values	< 800	V
	- typical values of distribution	< 700	V
Service life			
10 operations	50 Hz, 1 s	2.5	A
1 operations	50 Hz, 0.18 s (9 cycles)	5	A
10 operations	8/20 µs	2.5	kA
1 operation	8/20 µs	5	kA
1 operation	10/350 µs	0.5	kA
Insulation resistance at 100 V_{DC}		> 1	GΩ
Capacitance at 1 MHz		< 1	pF
Arc voltage at 1 A		~ 10	V
Glow to arc transition current		< 0.3	A
Glow voltage		~ 60	V
Weight		~ 1	g
Operation and storage temperature		–40 ... +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, red positive		EPCOS EM 300 YY O EM - Series 300 - Nominal voltage YY - Year of production O - Non radioactive	
Certification		UL 497B (E163070)	

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode

Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

Dimensional drawing in mm

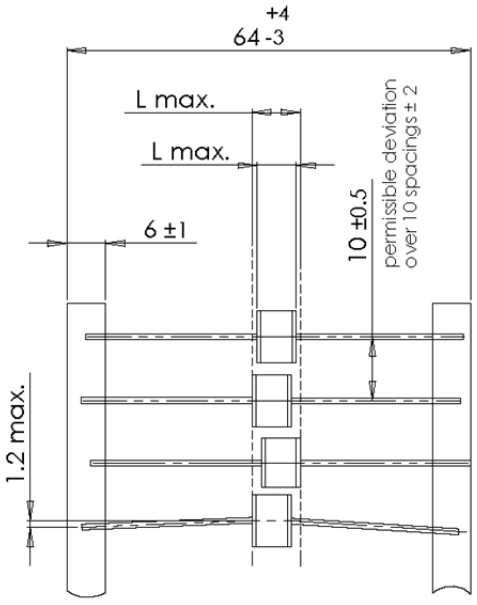




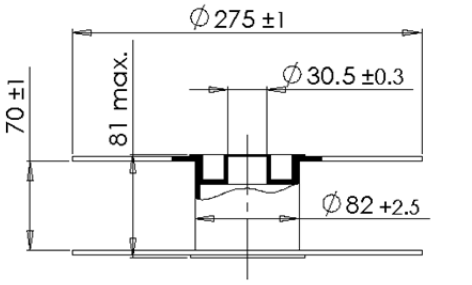
Ordering code and packing advice

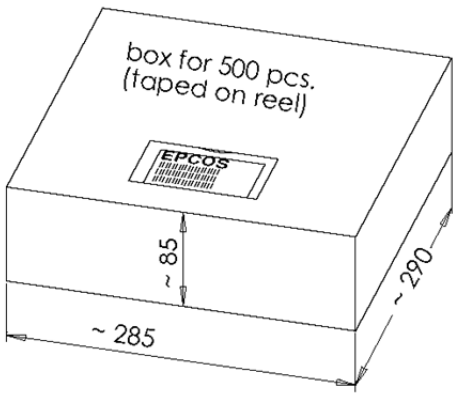
*B88069X0800**S102** = 100 pcs. on 5 taped stripes*

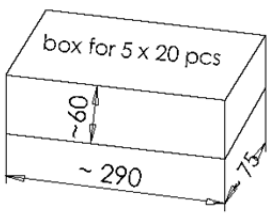
*B88069X0800**T502** = 500 pcs. on tape & reel*



tape acc. to IEC 60286-1

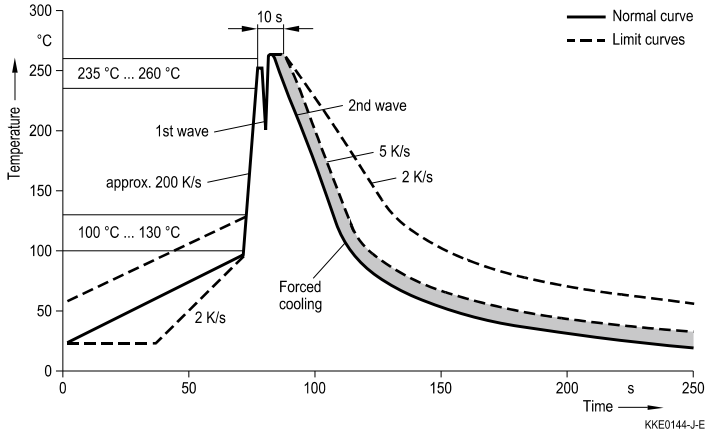






Soldering parameter

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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The ordering code for one and the same EPCOS product can be represented differently in data sheets, data books, other publications, on the EPCOS website, or in order-related documents such as shipping notes, order confirmations and product labels. **The varying representations of the ordering codes are due to different processes employed and do not affect the specifications of the respective products**. Detailed information can be found on the Internet under www.epcos.com/orderingcodes

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2. We also point out that **in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified.** In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
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