

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!



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Surge arrester

2-electrode arrester

Series/Type: EF2500X

Ordering code: B88069X5690****

Version/Date: Issue 04 / 2014-07-30

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Surge arrester B88069X5690****

2-electrode arrester EF2500X

Features

- High follow current capability
- Very fast response time
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

Applications

- Application with high follow current
- Power supply
- Consumer electronics
- AC power line devices

Electrical specifications

Electrical specifications			
DC spark-over voltage 1) 2)		2500	٧
Tolerance		± 20	%
Min. Max.		2000 3000	V V
at 100 V/µs - for 99% of measured values - typical values of distribution		< 3200	V
		< 3000	V
at 1 kV/μs - for 99% of measured values		< 3500	V
- typical values	of distribution	< 3300	V
Service life			
10 operations	50 Hz, 1 s	5	Α
1 operation	50 Hz, 0.18 s (9 cycles)	35	Α
10 operations [5× (+) & 5× (-)]	8/20 μs	5	kA
1 operation	8/20 μs	10	kA
Max. follow current during one voltage half cycle at 50 Hz ³⁾		200	Α
Insulation resistance at 100 V _{DC}		> 10	GΩ
Capacitance at 1 MHz		< 1.5	pF
Arc voltage at 1 A		~ 35	٧
Glow to arc transition current		< 0.3	Α
Glow voltage		~ 120	V
Weight		~ 1.5	g
AC withstand voltage (1 min.)		1250	V
Operation and storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, red positive		EPCOS EF 2500 YY O EF - Series 2500 - Nominal voltage YY - Year of production O - Non radioactive	
Certifications		UL 1449 (E319264)	R

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

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

PPD AB PD / PPD AB PM Issue 04 / 2014-07-30

²⁾ In ionized mode

³⁾ Follow current has to be limited by an appropriate varistor in series

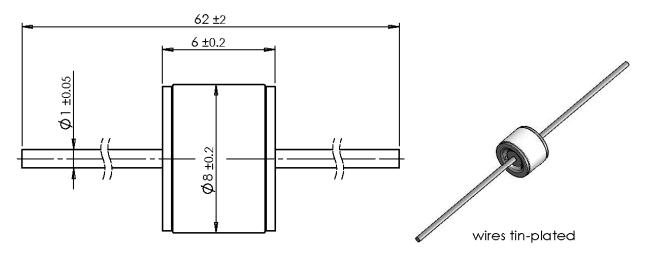


Surge arrester B88069X5690****

2-electrode arrester

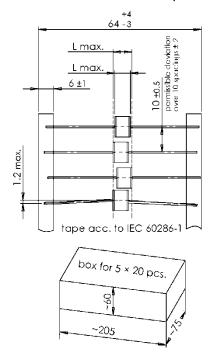
EF2500X

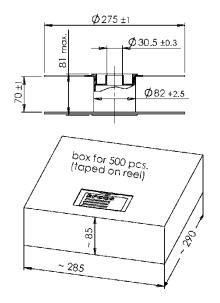
Dimensional drawing in mm



Ordering codes and packing advices

B88069X5690**S102** = 100 pcs. on 5 taped stripes B88069X5690**T502** = 500 pcs. on tape and reel





PPD AB PD / PPD AB PM Issue 04 / 2014-07-30

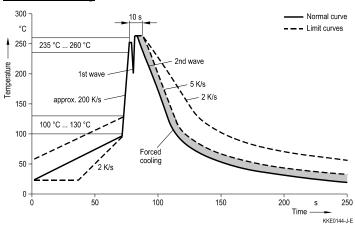


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2-electrode arrester EF2500X

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

- Surge arrester must be selected so that the maximum expected follow current can be guenched.
- The follow current must be limited so that the arrester can be properly extinguished when the surge has decayed. The arrester might otherwise heat up and ignite adjacent components.
- Surge arresters must not be operated directly in power supply networks.
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In case of overload, the lead contacts may fail or the component may be destroyed.
- Surge arresters must be handled with care and must not be dropped.
- Damaged surge arresters must not be re-used.

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PPD AB PD / PPD AB PM Issue 04 / 2014-07-30



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