

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: B88069X2113B352
Manufacturer: TDK
Package: Tray
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/tdk/b88069x2113b352.html>

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CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.



Surge arrester

2-electrode arrester

Series/Type:	EF800XB3
Ordering code:	B88069X2113B352
Date:	2026-04-01
Version:	04

Surge arrester

B88069X2113B352

2-electrode arrester

EF800XB3

Features

- Standard size
- 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

DC spark-over voltage ^{1) 2)}	800	V
Tolerance	-15 ... +25	%
Min.	680	V
Max.	1000	V
Impulse spark-over voltage		
at 100 V/μs - for 99% of measured values	< 1200	V
- typical values of distribution	< 1000	V
at 1 kV/μs - for 99% of measured values	< 1300	V
- typical values of distribution	< 1100	V
Service life		
10 operations 50 Hz, 1 s	5	A
1 operation 50 Hz, 0.18 s (9 cycles)	65	A
10 operations [5× (+) & 5× (-)] 8/20 μs ³⁾	10	kA
1 operation 8/20 μs	12	kA
1 operation 10/350μs	3	kA
Max. follow current during one voltage half cycle at 50 Hz ⁴⁾	200	A
Insulation resistance at 100 V _{DC}	> 10	GΩ
Capacitance at 1 MHz	< 1.5	pF
Arc voltage at 1 A	~ 25	V
Glow to arc transition current	< 0.3	A
Glow voltage	~ 160	V
Weight	~ 1.5	g
Operation and storage temperature	-40 ... +125	°C
Climatic category (IEC 60068-1)	40/125/21	
Marking, red positive	TDK EF 800 YY EF - Series 800 - Nominal voltage YY - Year of production	
Certification	UL 1449 (E319264)	

Remarks on next page

Surge arrester

B88069X2113B352

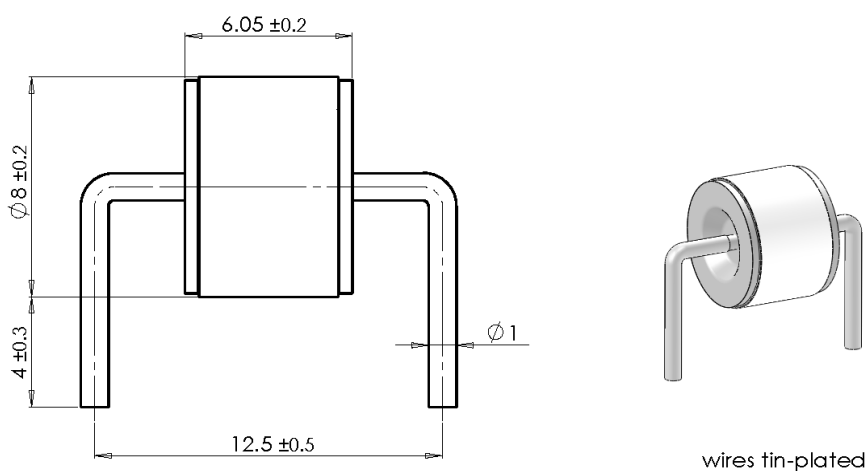
2-electrode arrester

EF800XB3

- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) After service life: DC spark-over voltage < 1500 V
- 4) Follow current has to be limited by an appropriate varistor in series.

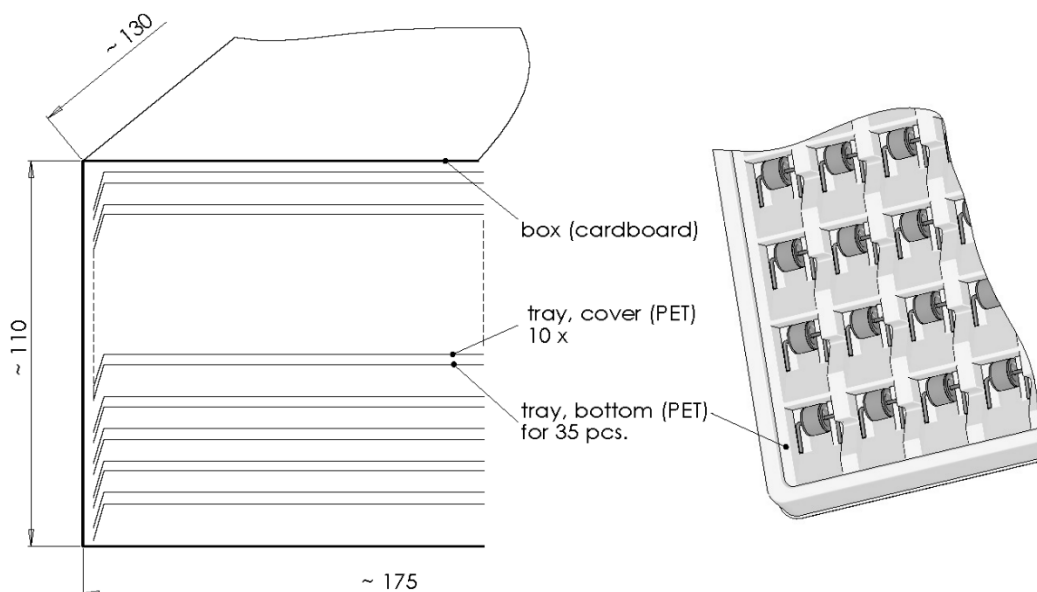
Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.

Dimensional drawing in mm



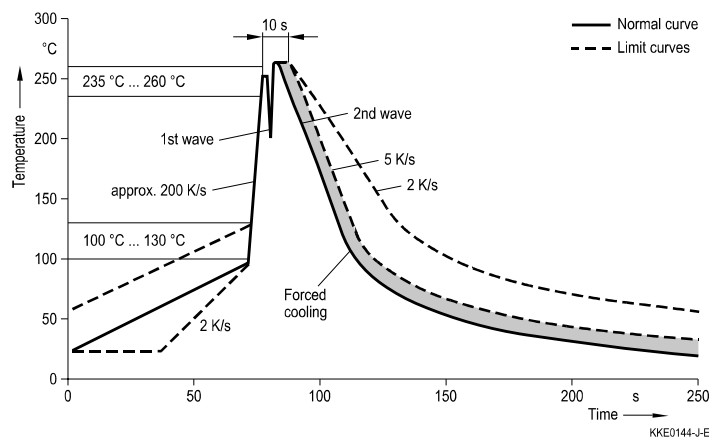
Ordering codes and packing advices

B88069X2113B352 = 350 pcs. in trays



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.
- The follow current must be limited (see values on page 2) 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 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.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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Important notes

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