

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: B88069X6700C253

Manufacturer: TDK

Package: Bulk

Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/tdk/b88069x6700c253.html>

Request a Quote:

[Submit RFQ for this part](#)



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Quality & Trust

New & Original Components

Supplier verification and packaging condition review

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

3-electrode arrester

Series/Type:	T90-A230X
Ordering code:	B88069X6700C253
Date:	2026-04-01
Version:	09

Surge arrester

B88069X6700C253

3-electrode arrester

T90-A230X

Features

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

Applications

- Line protection
- Station protection
- Base stations

Electrical specifications

DC spark-over voltage ^{1) 2) 3)}	184 ... 276	V
DC spark-over voltage ^{2) 4)}	176 ... 550	V
Impulse spark-over voltage ³⁾		
at 100 V/μs - for 99% of measured values	< 600	V
- typical values of distribution	< 550	V
at 1 kV/μs - for 99% of measured values	< 700	V
- typical values of distribution	< 650	V
Service life		
10 operations 50 Hz; 1 s ⁶⁾	5	A
10 operations 50 Hz; 1 s ⁵⁾	10	A
10 operations [5x (+) & 5x (-)] 8/20 μs ⁵⁾	10	kA
10 operations [5x (+) & 5x (-)] 8/20 μs ⁶⁾	5	kA
5 operations 10/250 μs ⁵⁾	2.5	kA
2 operations 10/350 μs ⁵⁾	2.5	kA
300 operations 10/1000 μs ⁵⁾	200	A
DC holdover voltage ⁸⁾		
at 52 V _{DC} / 260 Ω	< 150	ms
at 80 V _{DC} / 330 Ω	< 150	ms
at 135 V _{DC} / 1300 Ω	< 150	ms
Activation after reflow soldering ⁷⁾		
1 operation U = 600 V; 1 s	2	A
Insulation resistance at 100 V _{DC} ⁴⁾	> 1	GΩ
Capacitance at 1 MHz ⁴⁾	< 1.5	pF
Transverse delay time ⁴⁾	< 0.2	μs
Arc voltage at 1 A	~ 10	V
Glow to arc transition current	< 1	A
Glow voltage	~ 60	V
Weight	~ 0.8	g
Operation and storage temperature	-40 ... +125	°C

Continue on next page

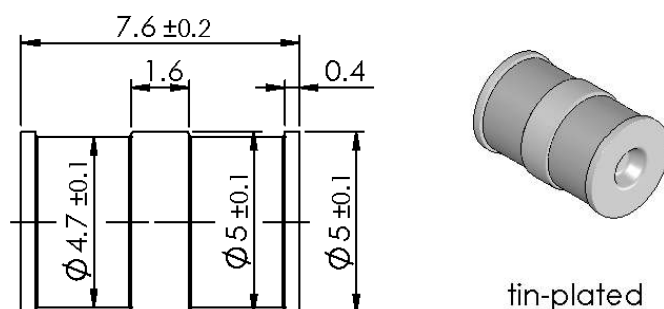
Surge arrester	B88069X6700C253
3-electrode arrester	T90-A230X

Climatic category (IEC 60068-1)	40/125/21
Marking, blue negative	TDK 230 YY 230 - Nominal voltage YY - Year of production
Certifications	UL 497B (E163070)

- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Tip or ring electrode to center electrode
- 4) Tip to ring electrode
- 5) Total current through center electrode, half value through tip respectively ring electrode
- 6) Total current through center electrode, same value through tip respectively ring electrode
- 7) Total current from ring to tip electrode
- 8) Test in accordance with ITU-Rec. K.12

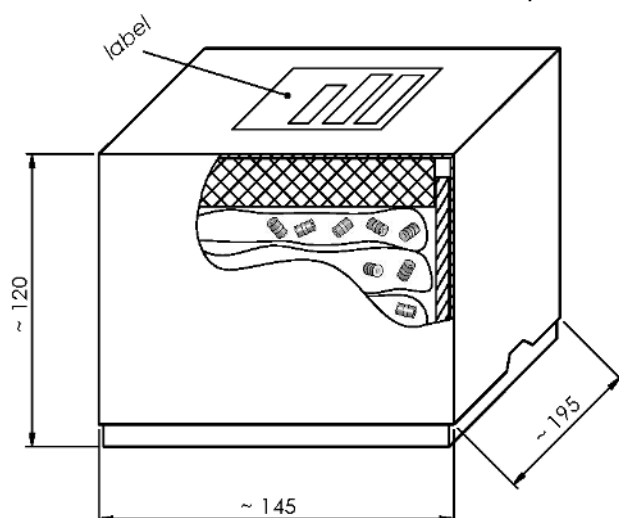
Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.

Dimensional drawing in mm



Ordering code and packing advice

B88069X6700**C253** = container with 2500 pcs.



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.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- 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.

Display of ordering codes for TDK Electronics products

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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.
3. **The warnings, cautions and product-specific notes must be observed.**
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Important notes

8. The trade names EPCOS, CarXield, CeraCharge, CeraDiode, CeraLink, CeraPad, CeraPlas, CSMP, CTVS, DeltaCap, DigiSiMic, FilterCap, FormFit, InsuGate, LeaXield, MediPlas, MiniBlue, MiniCell, MKD, MKK, ModCap, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, PiezoBrush, PlasmaBrush, PowerHap, PQSine, PQvar, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SiMic, SIMID, SineFormer, SIOV, SurfIND, ThermoFuse, WindCap, XieldCap are **trademarks registered or pending** in Europe and in other countries. Further information will be found on the Internet at www.tdk-electronics.tdk.com/trademarks.

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