

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: B88069X3163C203
Manufacturer: TDK
Package: Bulk
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/tdk/b88069x3163c203.html>

Request a Quote:

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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:	T20-C600X
Ordering code:	B88069X3163****
Date:	2026-04-01
Version:	04

Surge arrester

B88069X3163****

3-electrode arrester

T20-C600X

Features

- Standard 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)}	420 ... 700	V
Impulse spark-over voltage ³⁾		
at 100 V/μs - for 99% of measured values	< 900	V
- typical values of distribution	< 800	V
at 1 kV/μs - for 99% of measured values	< 1000	V
- typical values of distribution	< 950	V
Service life		
10 operations 50 Hz; 1 s ⁴⁾	20	A
1 operation 50 Hz; 0.18 s (9 cycl.) ⁴⁾	40	A
10 operations [5× (+) & 5× (-)] 8/20 μs ⁴⁾	20	kA
1 operation 8/20 μs ⁴⁾	20	kA
Insulation resistance at 100 V _{DC} ³⁾	> 10	GΩ
Capacitance at 1 MHz ³⁾	< 1.5	pF
Transverse delay time ⁵⁾	< 0.2	μs
Arc voltage at 1 A	~ 30	V
Glow to arc transition current	< 1	A
Glow voltage	~ 200	V
Weight	~ 2	g
Operation and storage temperature	-40 ... +125	°C
Climatic category (IEC 60068-1)	40/125/21	
Marking, blue negative	TDK 600 YY 600 - 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⁾ Total current through center electrode, half value through tip respectively ring electrode.

⁵⁾ Test according to ITU-T Rec. K.12

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

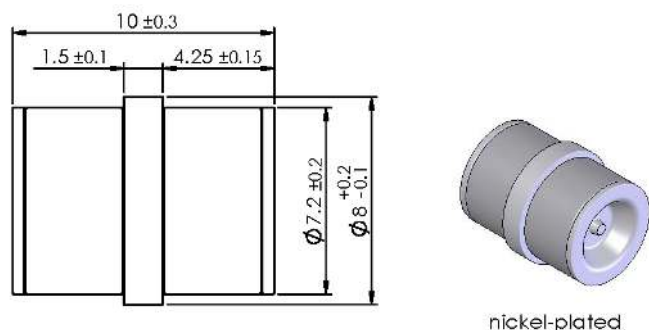
Surge arrester

B88069X3163****

3-electrode arrester

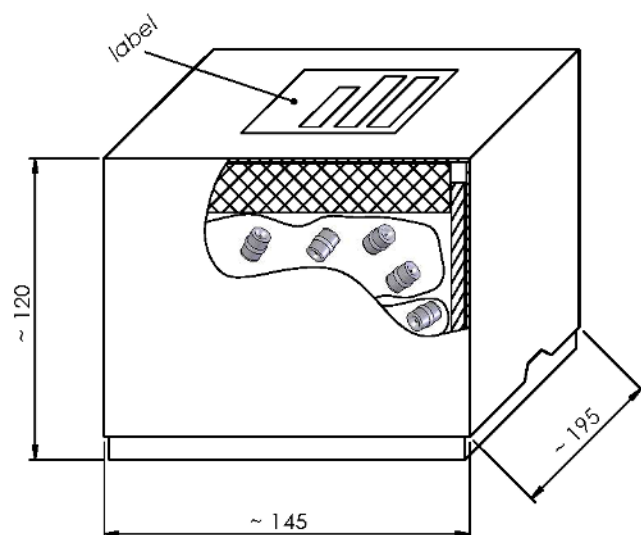
T20-C600X

Dimensional drawing in mm



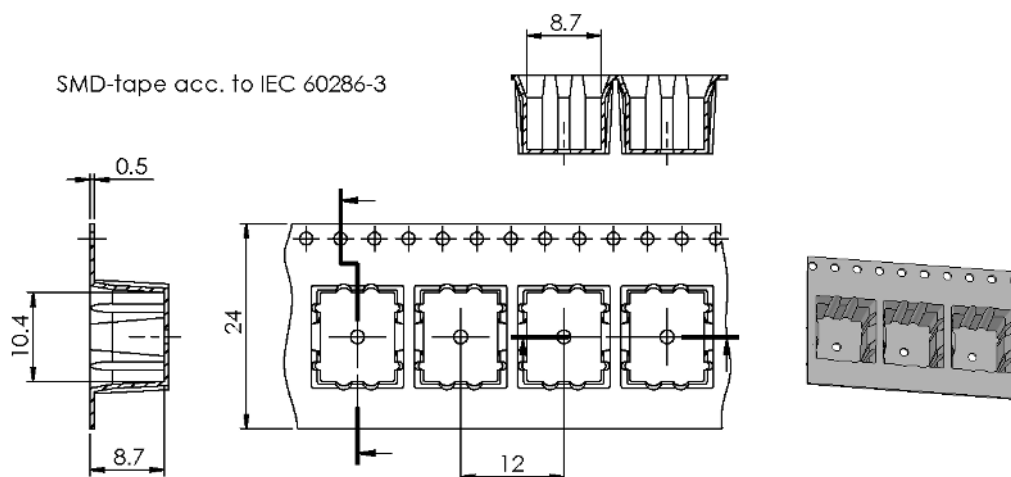
Ordering code and packing advice

B88069X3163**C203** = 2000 pcs. in container



B88069X3163**T502** = SMD-tape with 500 pcs.

SMD-tape acc. to IEC 60286-3



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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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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