

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: B88069X8360C203
Manufacturer: TDK
Package: Bulk
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/tdk/b88069x8360c203.html>

Request a Quote:

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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:	T80-A90X
Ordering code:	B88069X8360****
Date:	2026-04-01
Version:	08

Surge arrester

B88069X8360****

3-electrode arrester

T80-A90X

Features

- Standard size
- Very fast response time
- Very high current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

Applications

- Base stations
- Line protection
- Station protection

Electrical specifications

DC spark-over voltage ^{1) 2) 3)}		90	V
Tolerance		±20	%
Min.		72	V
Max.		108	V
Impulse spark-over voltage ³⁾			
at 100 V/μs	- for 99% of measured values	< 400	V
	- typical values of distribution	< 300	V
at 1 kV/μs	- for 99% of measured values	< 550	V
	- typical values of distribution	< 500	V
Service life			
10 operations	50 Hz; 1 s ⁴⁾	10	A
1 operation	50 Hz; 0.18 s (9 cycl.) ⁴⁾	40	A
10 operations [5× (+) & 5× (-)]	8/20 μs ⁴⁾	10	kA
1 operation	8/20 μs ⁴⁾	15	kA
1 operation	10/350 μs ⁴⁾	2	kA
300 operations	10/1000 μs ⁴⁾	200	A
Insulation resistance at 50 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		~ 15	V
Glow to arc transition current		< 0.5	A
Glow voltage		~ 70	V
Weight		~ 2	g
Operation and storage temperature		-40 ... +125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, red negative		TDK 90 YY 90 - Nominal voltage YY - Year of production	
Certifications		UL 497B (E163070)	

Remarks on next page

Surge arrester

B88069X8360****

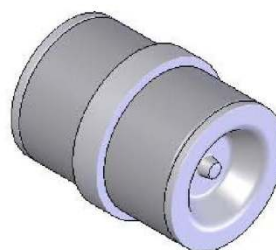
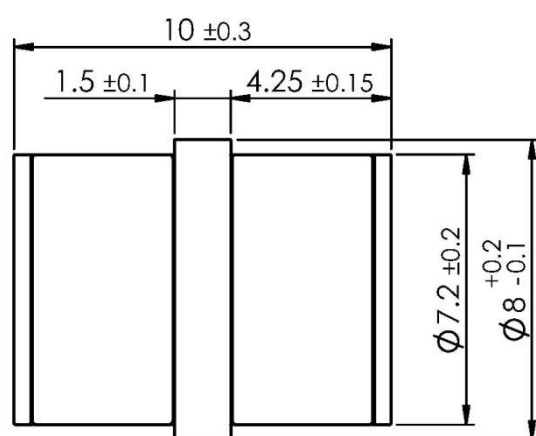
3-electrode arrester

T80-A90X

- 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.

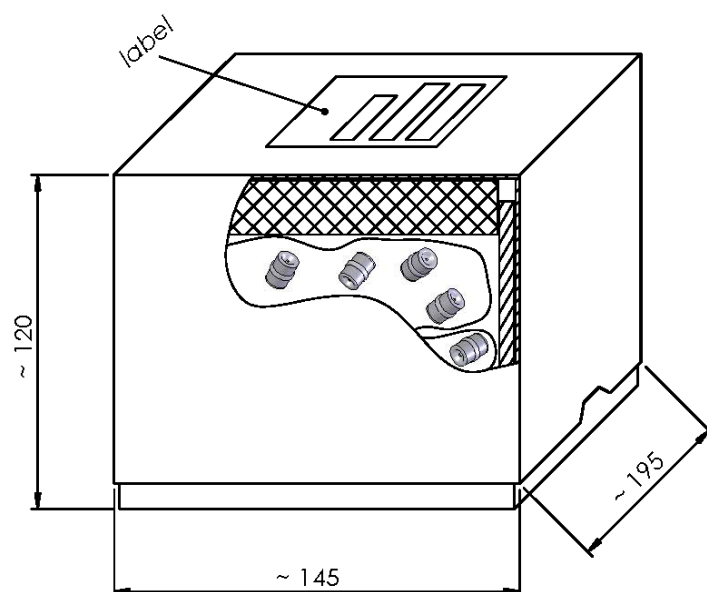
Dimensional drawing in mm



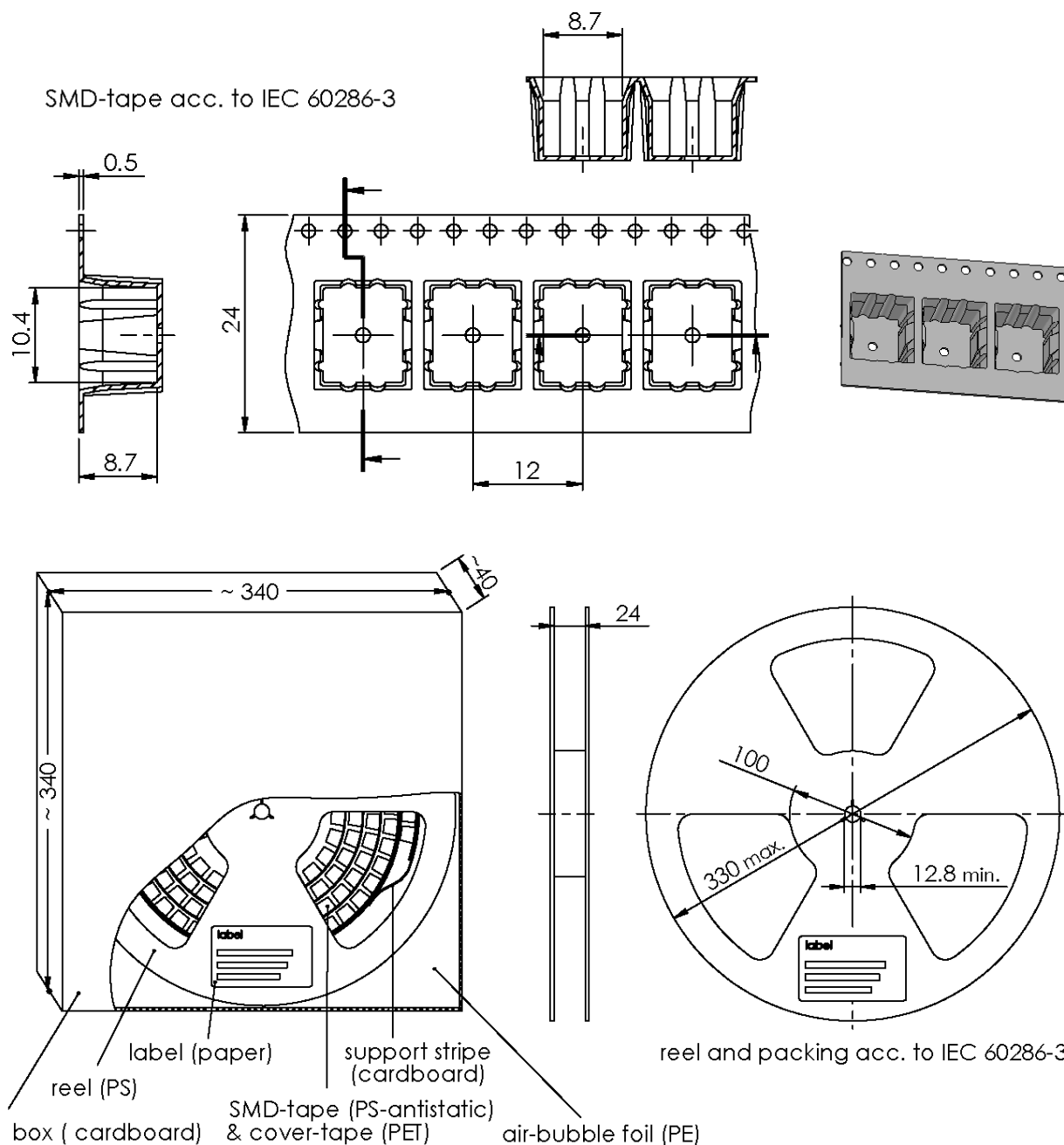
nickel-plated

Ordering code and packing advice

B88069X8360**C203** = 2000 pcs. in container



B88069X8360T502 = SMD-tape with 500 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.

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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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