

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: B88069X3070C203
Manufacturer: TDK
Package: Bulk
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/tdk/b88069x3070c203.html>

Request a Quote:

[Submit RFQ for this part](#)



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Contact Information

Email: info@antrexco.com

WhatsApp: +86-186-8066-5326

Website: <https://antrexco.com>

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:	T30-A500X
Ordering code:	B88069X3070****
Date:	2026-04-01
Version:	07

Surge arrester

B88069X3070****

3-electrode arrester

T30-A500X

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 station

Electrical specifications

DC spark-over voltage ^{1) 2) 3)}	500	V
Tolerance	±20	%
Min.	400	V
Max.	600	V
Impulse spark-over voltage ³⁾		
at 100 V/μs - for 99% of measured values	< 1100	V
- typical values of distribution	< 1050	V
at 1 kV/μs - for 99% of measured values	< 1400	V
- typical values of distribution	< 1350	V
Service life		
10 operations 50 Hz; 1 s ⁴⁾	10	A
1 operation 50 Hz; 0.18 s (9 cycl.) ⁴⁾	30	A
10 operations 50 Hz; 1 s ⁴⁾	5	A
10 operations [5× (+) & 5× (-)] 8/20 μs ⁴⁾	10	kA
10 operations [5× (+) & 5× (-)] 8/20 μs(a-c) ⁴⁾	5	kA
1 operation 8/20 μs ⁴⁾	15	kA
1 operation 10/350 μs ⁴⁾	2	kA
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	~ 30	V
Glow to arc transition current	< 1	A
Glow voltage	~ 200	V
Weight	~ 1.4	g
Operation and storage temperature	-40 ... +125	°C
Climatic category (IEC 60068-1)	40/125/21	
Continued on next page		
Marking, blue negative	TDK 500 YY 500 - Nominal voltage YY - Year of production	

Surge arrester

B88069X3070****

3-electrode arrester

T30-A500X

Certifications

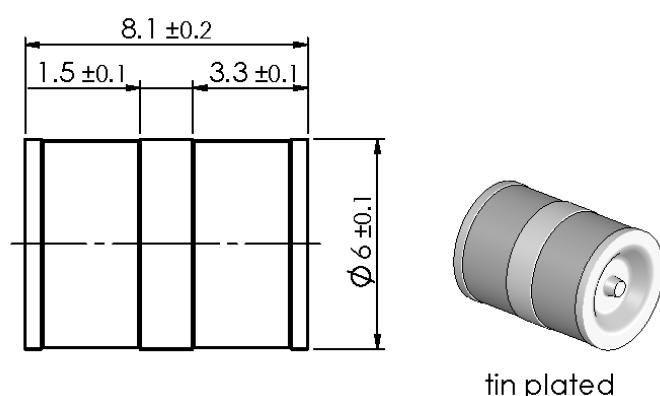
UL 497B (E163070)



- 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

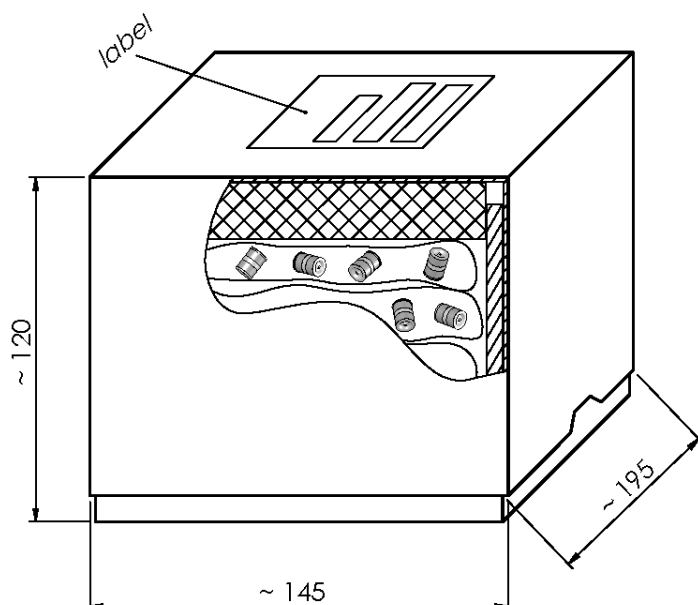
Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.

Dimensional drawing in mm



Ordering code and packing advice

B88069X3070**C253** = 2500 pcs. in container (5 PE-bags á 500 pcs.)



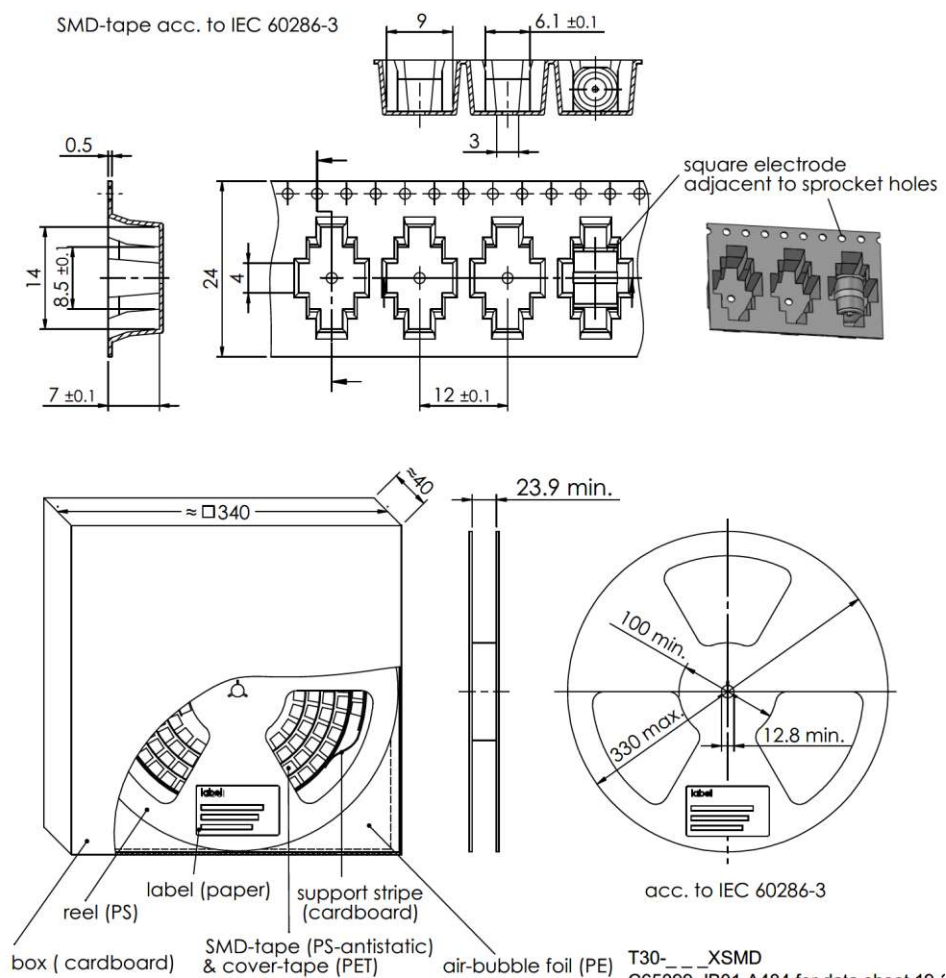
B88069X3070**T702** = 700 pcs on SMD tape

Surge arrester

B88069X3070****

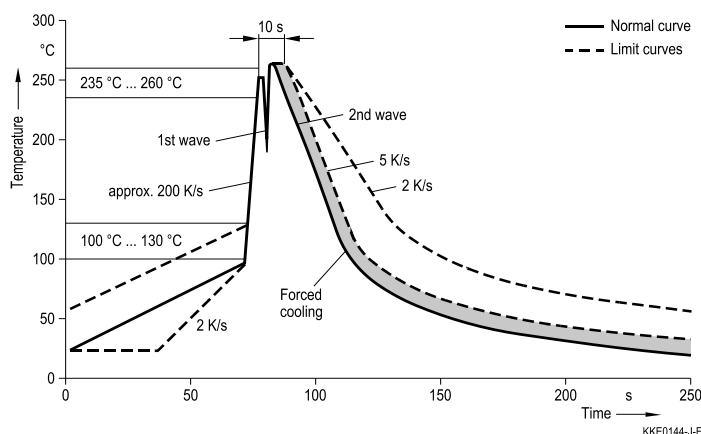
3-electrode arrester

T30-A500X



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.
- 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

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