

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: B88069X7140B502
Manufacturer: TDK
Package: Bulk
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/tdk/b88069x7140b502.html>

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Contact Information

Email: info@antrexco.com

WhatsApp: +86-186-8066-5326

Website: <https://antrexco.com>

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Supplier verification and packaging condition review

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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:	T23-A420XF4
Ordering code:	B88069X7140B502
Date:	2026-04-01
Version:	08

Surge arrester

B88069X7140B502

3-electrode arrester

T23-A420XF4

Features

- Standard size
- Fast response time
- High current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- Reliable failsafe device
- RoHS-compatible

Applications

- Base stations
- Line protection
- Station protection

Electrical specifications

DC spark-over voltage ^{1) 2) 3)}	350 ... 550	V
Impulse spark-over voltage ³⁾		
at 100 V/μs - for 99% of measured values	< 750	V
- typical values of distribution	< 700	V
at 1 kV/μs - for 99% of measured values	< 850	V
- typical values of distribution	< 800	V
Service life		
10 operations 50 Hz; 1 s ⁴⁾	10	A
1 operation 50 Hz; 0.18 s (9 cycl.) ⁴⁾	50	A
10 operations 8/20 μs ⁴⁾	20	kA
1 operation 8/20 μs ⁴⁾	25	kA
1 operation 10/350 μs ⁴⁾	5	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	~ 2.5	g
Storage temperature	-40 ... +125	°C
Climatic category (IEC 60068-1)	40/125/21	
Marking, blue negative	TDK 420 YY M 420 - Nominal voltage YY - Year of production M - Month of production (1 ... 9 = Jan ... Sep O ... D = Oct ... Dec)	
Certifications	UL 497B (E163070)	

Remarks on next page

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

- Depending on the sensor material the short-circuit spring does not trigger until 180 °C is reached. Thermal radiation to adjacent components must be taken into consideration in the circuit design. Depending on the mounting position, the surge arrester may have to be secured by additional mechanical means.
- Do not continue to use surge arresters whose short-circuit mechanisms have been activated.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Do not operate surge arresters in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- 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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