



Outdoor Twisted Pair Lightning Surge Protector,
2 Pair RS-232, 2 Pair 48Vdc, UL 497B



IX-2M2DC48

Features

- UL 497B certified
- Data protection modules optimized for Ethernet, PoE, RS-232, RS-422, RS-485, T1/E1 or POTS
- DC protection modules optimized for 12Vdc, 24Vdc, 48Vdc, 56Vdc or 72Vdc, available with isolated ground
- IP67 weatherized enclosure
- Pole mount kit available

Applications

- Enterprise networks
- Point to point radios
- PoE equipment
- Telco backhaul
- Internet service providers

Description

Modular data surge protector (also known as lightning arrestor) IX-2M2DC48 from PolyPhaser utilizing optimized designs for the most common synchronous data protocols that enables effective, weatherized protection for up to five twisted pairs. Protects critical hardware from lightning and other induced transients while remaining transparent to network traffic. Several commonly used configurations are available, while modules are also sold separately to support custom applications.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Data Rate			25	Mb/s
Series Impedance (Data)		1		Ohms
Capacitance (Differential)		100		pF
Capacitance (Common)		100		pF
DC Operating Current			2	A
Series Impedance (DC)		0.05		Ohms

Surge Protection Specification

Description	Minimum	Typical	Maximum	Units
Surge				
Telcordia GR-1089-CORE 10/1000µs			100	A
Turn On Voltage (Data)		31		Vdc
Turn On Voltage (DC)		56		Vdc

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[Outdoor Twisted Pair Lightning Surge Protector, 2 Pair RS-232, 2 Pair 48Vdc, UL 497B IX-2M2DC48](#)



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Mechanical Specifications

Size

Length	5.25 in [133.35 mm]
Width/Diameter	2.5 in [63.5 mm]
Height	1.09 in [27.69 mm]
Weight	1 lbs [453.59 g]

Configuration

Connector	Screw Terminal Receptacle
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Environmental Specifications

Temperature

Operating Range	-40 to +65 deg C
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Environmental Specification Notes:

MEETS BELLCORE #TA-NWT-000487 PROCEDURE 4.11, WIND DRIVEN (70 MPH) RAIN INTRUSION TEST

Installation

Mount Type	Panel Mount
Cord Diameter	0.114 to 0.35 in [2.9 to 8.89 mm]
Wire Gauge	16 to 28 AWG

Compliance Certifications (see [product page](#) for current document)

UL Compliance	UL 497B
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Plotted and Other Data

Notes:

PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, DC Pass and Ultra Low PIM. Backed by responsive service and expert technical support PolyPhaser continually expands its product offering and services to serve engineers' urgent needs for RF components in mission critical communication networks.

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URL: <https://www.polyphaser.com/surge-protector-2-pair-rs-232-48vdc-ix-2m2dc48>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to

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make modifications to the part and/or the documentation of the part, in order to implement improvements. PolyPhaser reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. PolyPhaser does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and PolyPhaser does not assume any liability arising out of the use of any part or documentation.

IX-2M2DC48 CAD Drawing

