GENERAL FEATURES:
- Three stage protection of both lines of the RS-485 port
- Passive: no need for external power
- Plug-and-Play (Device is hot-pluggable)
- RJ45 connections for easy installation
- Clamping voltage at 6.8 volts
- 600W of surge protection
- 5-year replacement manufacturer’s warranty
- CE, FCC, RoHS and REACH certified

DESCRIPTION:
The SerialComm ISO-ETH-P is an industrial-grade (wide temperature range) bi-directional passive Ethernet surge arrester. It can protect any standard 10Base-T/100Base-TX Ethernet port from voltage peaks, and spikes caused by lightning and other power surges. The unit is passive; therefore, no external power or flow control is required. The ISO-ETH-P has a RJ45 on one Ethernet side and another RJ45 on the other Ethernet side.

The ISO-ETH-P is designed with top quality high response surge arrester. The low capacitance protection provides a clamping voltage with low loss against the high-speed signal. The ISO-ETH-P is designed to protect data communication lines in local and wide area networks up to 100Base-T transmission speeds.

CERTIFICATIONS:
- CE
- FCC
- RoHS
- REACH

FUNCTIONAL DIAGRAM:

SPECIFICATIONS:

COMMUNICATION
STANDARDS:
- 10Base-T/100Base-TX Standard, IEC61000-4-5 and ITU-TK20&K21 Standards

BAUD RATES:
- Up to 100 mbps

CONNECTOR TYPES:
- RJ45 Female Connectors

ELECTRICAL
POWER SOURCE:
- Passive Device: No Power Needed.

VOLTAGE CLAMP:
- 6.8 Volts

VOLTAGE LIMIT:
- 40 Volts

INSERT CONSUMPTION:
- < 0.5 db

DELAY TIME:
- < 1 ns

MECHANICAL
HOUSING:
- Heavy Duty Steel Casing

WEIGHT:
- 0.35oz (10 grams)

DIMENSIONS:
- 3.31” X 1.02” X 1.02” (84.0 mm X 25.8 mm X 25.8 mm)

ENVIRONMENTAL
OPERATING TEMP:
- -40° F to 185° F (-40°C to 85° C)

STORAGE TEMP:
- -40° F to 185° F (-40°C to 85° C)

OPERATING HUMIDITY:
- 5% To 95% - No Condensation

QUALITY
PRODUCT SAFETY:
- CE, FCC RoHS and REACH Conformance Certified

QUALITY MANAGEMENT:
- Manufactured and Distributed to ISO 9001:2015 QMS

RELIABILITY:
- Low Failure Rate – 99+% Reliability Since Inception

WARRANTY:
- 5 Year Replacement Warranty
APPLICATIONS:

ISO-ETH-P

ETHERNET

10 Base-T/100 Base-T SURGE ARRESTOR

ETHERNET

ETHERNET

FIGURE 1: 600W SURGE SUPPRESSION CONNECTION DIAGRAM