CAT5E Dataline Surge Protector

MJ8-CAT5E

The MJ8-CAT5E is designed to protect sensitive data-processing equipment connected to a Gigabit Ethernet network from transient over voltages.
The MJ8-CAT5E surge protector is deployed in signal network applications with data transmission speeds of 100 and 1000 Mbps.
The surge protector is housed in a shielded enclosure with high quality RJ45 shielded jacks.
The transient protection circuit is based on high energy gas discharge tubes (GDT) and a network of fast response silicon avalanche diodes (SAD) to achieve sharp clamping of very large surge events.

- Gigabit Ethernet Surge Protector
- 100 Base T/1000 Base T compatible
- Shielded enclosure and connectors
- 2 kA discharge capability

Characteristics

CITEL part number	MJ8-CAT5E
Application	Gigabit Ethernet Networks
Max. data rate	1000 Mbps
Standard Compliance	IEEE 802-3ab (transmission) IEC 61000-4-5 (surge withstand)
Connections: -input -output	 RJ45 shielded RJ45 shielded
Pinout	8 wires + shielding
Max. DC Power Supply	7.5 Vdc (1-8) - 650 mA
Nominal Discharge Current -Line/Line -Line/Ground	 <500 A @ 8/20 µs 2000 A @ 8/20 µs
Enclosure	Metal
Connection to bonding network	Screw Terminal

Dimensions and Diagram

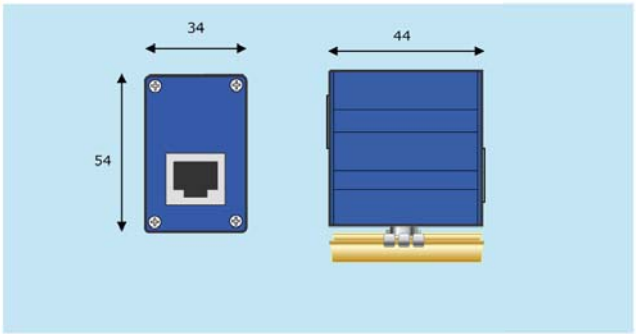
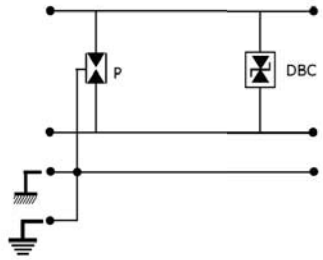
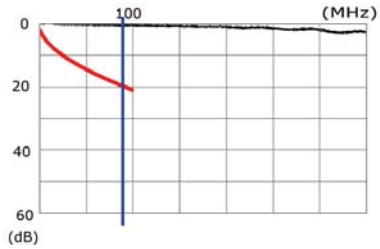


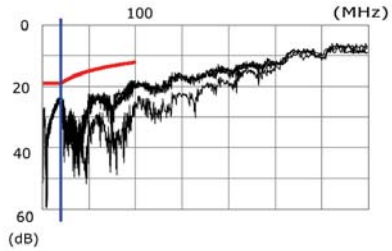
Diagram for one pair

P: 3-electrode gas tube
DBC: 3-pole low-capacitance diode

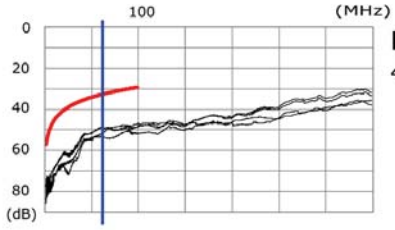




Insertion Loss
1.2 dB @ 100 MHz



Return Loss
20 dB @ 100 MHz



NEXT
45dB @ 100 MHz

red curve: maximum limit

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