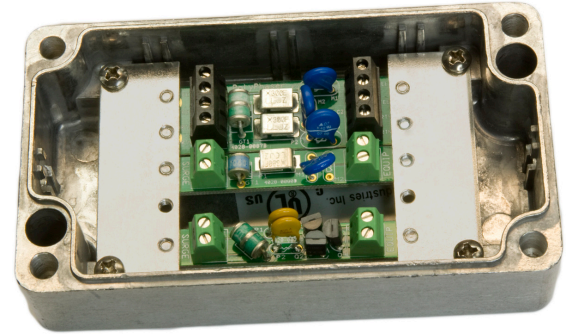


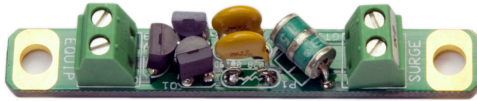
IX-Series

Modular high speed data and ac/dc line protectors for unbalanced and balanced circuits



IX-Series typical weatherized deployment. A total of five slots are available.

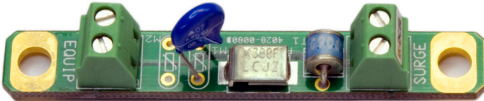
Data Series:



Two-wire balanced, neither side grounded during normal operation.
 Series resistance 1.0 Ohm $\pm 20\%$
 Temperature (storage & operating) -40 to +65 °C
 Wire size 16 to 28 AWG
 Maximum current 500 mA

| Model | H | L | M | N | P | T |
|--|---------------|---------------------|----------|-----------|----------------------|-----------------------|
| Turn-on peak voltage $\pm 10\%$ Vdc | +9 | ± 12 | ± 31 | ± 64 | ± 110 | ± 210 |
| Max data rate, 110Ω, 3dB, sine / square, MHz | 300 / 5 | 17 \ 1.1 | 35 / 1.1 | 17 / 0.7 | 17 / 0.7 | 25 / 1 |
| Capacitance differential/common in pF, typical | 30 / 25 | 110 / 110 | 68 / 68 | 135 / 135 | 115 / 115 | 85 / 85 |
| Typical application | CAT5 UTP, STP | T1/E1, RS422, RS485 | RS232 | POE | Telco Extension Line | POTS, DSL, ADSL, HDSL |

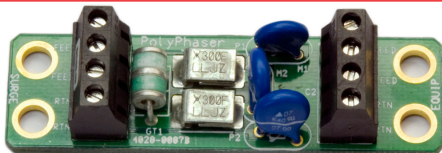
Unbalanced ac and dc:



One side straight through and directly grounded; unbalanced.
 Series resistance 0.05 Ohms $\pm 20\%$
 Temperature (storage & operating) -40 to +65 °C
 Wire size 16 to 28 AWG
 Maximum current 2 Amps (one fuse required)

| Model | DC12 | DC24 | DC48 | DC56 | DC72 |
|--|------------|-----------|----------|----------|------------|
| Maximum usable Vdc | ± 14 | ± 26 | ± 45 | ± 56 | ± 65 |
| Maximum usable Vac RMS | 11 | 20 | 35 | 40 | 50 |
| Max data rate, 110Ω, 3dB, sine / square, MHz | 1.5 / 0.25 | 2.5 / 0.3 | 4 / 0.6 | 5 / 0.8 | 6.5 / 1.25 |
| Capacitance common in nF, typical | 3.1 | 1.9 | 1.2 | 1 | 0.7 |

Balanced ac and dc:



Two-wire balanced, neither side grounded during normal operation.
 Series resistance 0.05 Ohms $\pm 20\%$
 Temperature (storage & operating) -40 to +65 °C
 Wire size 16 to 28 AWG
 Maximum current 2 Amps (two fuses required)

| Model | DC12-IG | DC24-IG | DC48-IG | DC56-IG | DC72-IG |
|--|----------|------------|-----------|-----------|----------|
| Maximum usable Vdc | ± 14 | ± 26 | ± 45 | ± 56 | ± 65 |
| Maximum usable Vac RMS | 11 | 20 | 35 | 40 | 50 |
| Max data rate, 110Ω, 3dB, sine / square, MHz | -- | 1.7 / 0.35 | 3 / 0.4 | 3.7 / 0.4 | -- |
| Capacitance differential/common in nF, typical | -- | 3 / 2.6 | 2.1 / 1.8 | 1.4 / 1.4 | -- |

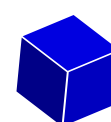
UL 497B Listed: The Series IX is intended for indoor or outdoor use on low power communication loop circuits which have been isolated from the Public Switched Telephone Network. The boards shall be employed in a Listed enclosure suitable for the end-use application and environmental conditions.

RoHS Compliant

Bellcore 1089 10/1000uS 100A

Ver 05, 12Jun08

Distributed by:



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