

DTK-MRJEXTS

Shielded Surge Protection for PoE Extender Circuits



DITEK's DTK-MRJEXTS is designed with state-of-the-art circuitry to provide superior protection for Power over Ethernet Extender Circuits. This point of use surge protector is compatible with CAT5e, CAT6 and CAT6A cabling infrastructure, and is designed to be installed on the outputs of the PoE Extender devices. When used with STP cabling, the DTK-MRJEXTS does not require a separate earth ground.

Product Features

- Uses SAD and GDT technologies for optimal protection
- Data speeds up to 10GbE without signal degradation
- PoE Plus, HiPoE ready for high-wattage applications
- Shielded RJ45 connections with external grounding screw
- Complies with IEEE Std. 802.3af and 802.3at for PoE

Applications

- PoE Extender Circuits
- Power over Ethernet Devices

Accessories

- DIN Rail Mounting Kit – Part Number DTK-DRK

| Category | Max Data Transmission Speed | Max Bandwidth | Typical Distance |
|----------|-----------------------------|---------------|------------------|
| CAT3 | 10 Mbps | 16 MHz | 100 m |
| CAT5 | 10 / 100 Mbps | 100 MHz | 100 m |
| CAT5e | 1 Gbps | 100 MHz | 100 m |
| CAT6 | 1 Gbps | 250 MHz | 100 m |
| CAT6A | 10 Gbps | 500 MHz | 100 m |

* Cabling information obtained from TIA-568-C.2

Every precaution has been taken to ensure that this literature is accurate and complete. DITEK Corporation assumes no responsibility and disclaims all liability for damages resulting from the use of this information or for any errors or omissions.

Technical Specifications

| | |
|--|----------------------|
| Service Voltage: | <60V |
| Protection Modes: | L-G (All), L-L (All) |
| Clamping Voltage Common Mode (L-G): | 75V |
| Clamping Voltage Differential Mode (L-L): | 72V |
| Surge Current Rating: | 20kA/Pair |
| Max. Continuous Current: | 1.5 Amps |
| Power Handling: | 144 Watts |
| Data Rate: | Up To 10GbE |

Mechanical Characteristics

| | |
|------------------------|---|
| Connection Method: | Shielded RJ45 In/Out |
| Housing: | ABS |
| Operating Temperature: | -40F – 158F (-40C – 70C) |
| Maximum Humidity: | 95% non-condensing |
| Dimensions: | 3.0"L X 1.7"W X 1.2"H (76mm x 43mm x 30mm) |
| Weight: | 4oz (113g) |

Quality, Standards & Approval

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|-----------------------|---------------------------------|
| Agency Approvals: | UL497B |
| Standards Compliance: | CAT5e, EIA/TIA568A, EIA/TIA568B |
| Warranty: | Ten Year Limited Warranty |

