

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Three-stage DIN Rail Surge Protector





PRODUCT FEATURES

- •Three stages of protection on every data line
 - 1) Gas discharge tube
 - 2) Series resistor
 - 3) Transient voltage suppressor
- · Protected signal ground connection
- · Rugged terminal block connections
- · Dedicated chassis ground lug
- · Wide operating Temperature
- NEMATS2

Model HESP4DR protects against lightning strikes, power surges, and other types of voltage disturbances with three stages of protection for each line: a gas discharge tube followed by a series resistor and finally a Transient Voltage Suppresser (TVS). Five RS-422/485 signals on terminal blocks are supported with a clamping voltage of 6.8 Volts.

The surge protector is housed in a rugged DIN rail mount case with a protected signal ground connection and dedicated chassis ground lug. In order to work properly, it is important to have a good connection between the #10 grounding screw and a solid earth ground.

ORDERING INFORMATION

| MODEL NUMBER | INTERFACE | LINES PROTECTED | MOUNTING |
|-----------------|------------|-----------------|----------------|
| HESP4DR | RS-422/485 | (5) RS-422/485 | DIN Rail Mount |

ACCESSORIES

CU15B - Copper Grounding Strap



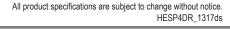
IN THE FIELD

Parking Lot Security

Industry: Transportation – Intelligent Parking Product: High Energy Surge Protector

Learn more about surge suppression & isolation www.advantech-bb.com/TechLibrary

- "Isolation: Your Best Investment for Reliability"
- "Dataline Isolation Theory"
- "Dataline Surge Protection"





Three-stage DIN Rail Surge Protector

HESP4DR



SPECIFICATIONS

| SELCII ICATIONS | | |
|--------------------------------|---|--|
| SERIAL TECHNOLOGY | | |
| Connectors, line | 5-position terminal blocks | |
| Connectors, equipment | 5-position terminal blocks | |
| SURGE SUPPRESSION | | |
| Clamping Voltage - stage 1 | 72 VDC, minimum 108 VDC, maximum | |
| Series Resistance - stage 2 | 2.7 Ohms | |
| Clamping Voltage - stage 3 | 6.45 VDC, minimum 7.14 VDC, maximum | |
| Clamping Time | Less than 5 x10 ⁻⁹ seconds | |
| MECHANICAL | | |
| Dimensions | 3.55 x 7.88 x 10.53 cm (1.4 x 3.1 x 4.2 in) | |
| Installation | DIN rail mount | |
| Weight | 0.114 kg (4.02 oz) | |
| MTBF | 862813 hours | |
| MTBF Calc. Method | MIL 217F, Parts Count Reliability Prediction Method | |

| ENVIRONMENTAL | | | |
|---|------------------------------|--|--|
| Operating Temperature | -40 to 80 °C (-40 to 176 °F) | | |
| Storage Temperature | -40 to 85 °C (-40 to 185 °F) | | |
| Operating Humidity | 0 to 95% Non-condensing | | |
| APPROVALS / CERTIFICATIONS - HESP4DR | | | |
| CE, NEMATS2 | | | |
| 2011/65/EU - Reduction of Hazardous Substance Directive | | | |
| 2012/19/EU - Waste Electrical and Electronic Equipment (WEEE) | | | |

MECHANICAL DIAGRAM

