

Coaxial Surge Protectors (SPD's)

Part Number: **CX-H-ECS-1** "Coax Guard Series"



Features:

- High reliability protection from surges caused by lightning or other electrical transients
- Meets IEC 61643-21 compliance, Category C2 & D1 Impulse Requirements
- High energy / low capacitance GDT technology
- High durability and RoHS compliant
- High frequency and low insertion loss
- Variable grounding configurations allowing for use in numerous applications
- DIN rail (35mm) mountable



100% Lead-Free (RoHS Compliant)

| Electrical Characteristics | |
|--|---|
| Frequency Range | DC - 30MHz |
| DC Breakdown (Turn-On) | < 260V (conductor to ground - 100V/s), < 75V (between conductors - 1mA) |
| Impulse Breakdown (1.2/50us 10kV) | < 500V (conductor to ground), < 250V (between conductors) |
| Technology Type | Gas Discharge Tube (GDT) |
| Insertion Loss | < 1.0dB |
| Rated Current and DC Resistance | 1A and 1Ω ±20% (between LINE and EQUIP) |
| AC Durability | 50Hz, 0.5A, 1 second (5 times) |
| Maximum Continuous Operating Voltage | DC 58V (between conductors) (1A rated current) |
| Maximum Current - Category C2 (8/20 us) | 10kA (10 times) |
| Maximum Current - Category D1 (10/350 us) | 5kA (2 times) |
| Impedance | 50 Ω / 75 Ω |
| Insulation Resistance (at 100V _{DC}) | ≥ 100M Ω (between conductors), ≥ 58M Ω (at 58V _{DC} , cond. to ground) |

| Mechanical Characteristics | |
|----------------------------|----------------------------|
| Connector Type | BNC Type (J-J) |
| Connection Method | Series (Not Bidirectional) |
| Grounding | Screw |
| Weight | 125g (4.41oz) |

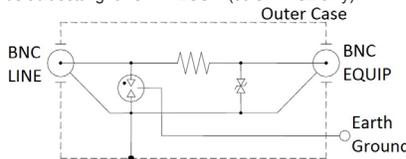
| Environmental Characteristics | |
|-------------------------------|---------------------------------|
| Environmental Rating | IP20 |
| Operating Temperature Range | -35°C to +60°C (-31°F to 140°F) |
| Maximum Operating Altitude | 2000m (6562ft) |
| Relative Humidity | ≤ 90% |

Applications:

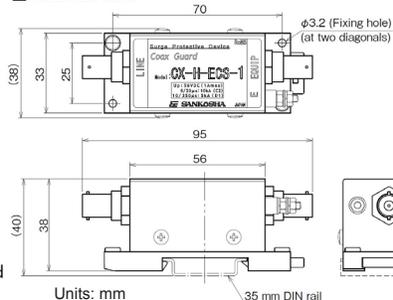
- Monitoring Cameras
- Security Systems
- Baseband Video
- Video / Data Transmission and Receiving
- High Frequency Coaxial Lines using BNC-type Connectors

Grounding Configuration:

On the underside of this part are two grounding configuration jumper screws (S1 and S2). CH-E-ECS, CH-H-ECS-1, and CH-H-ECS-2 are identical parts except for the factory default setting for the screws. This is the default setting for CH-H-ECS-1 (screw in S2 only):



External view



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