

CEIA-158



RF Equipment Protection High Power

The Novaris CEIA range is specifically designed for high power Co-Axial surge protection applications including MF, HF and VHF transmitters to 50kW. The CEIA range comes with two mounting types to suit in-line EIA connectors or via a bulkhead/cable entry plate. The CEIA is available to suit all EIA connectors 7/8" to 6 1/8".

Adjustable Spark Gap

The spark gap electrode is externally adjustable to suit a range of transmitter powers from 1 to 50kW and is removable to allow cleaning and routine maintenance. The heavy duty electrode offers a long service life even in severe conditions.

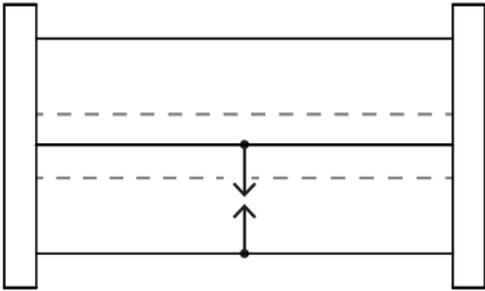
Enclosure

The CEIA is manufactured from 50 ohm rigid line with integral EIA connector flanges. Two connector bullets are supplied with each CEIA. The body is nickel plated.

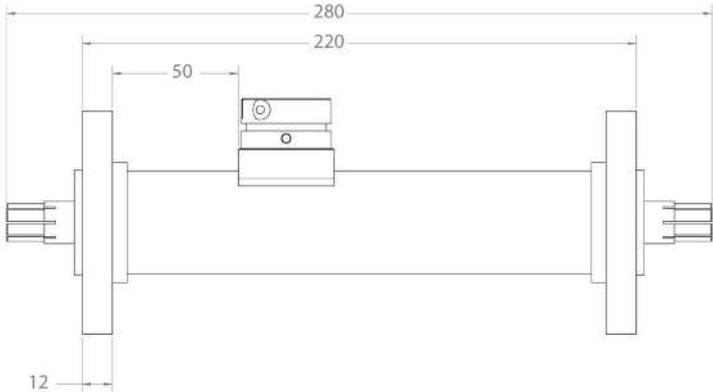
Optional arc sensor

The CEIA range is also available with an optional arc sensor which is used via control electronics to momentarily interrupt the transmitter output to ensure any arc is extinguished and the transmitter is not damaged.

Wiring



Dimensions



Standards

IEC 61643-21
AS1768

SPD connected to telecommunications and signalling networks - Cat C2, D1
Signalling/Telecommunications surge protection



Electrical Specifications

| | | |
|--|---|-----------------------------|
| Connection type |  | Series |
| Modes of protection | | Signal-Earth |
| Sparkover voltage (1.5mm spark gap) | | 1.5kV, adjustable up to 8kV |
| Maximum discharge current (8/20 μ s) | | 100kA |
| Maximum Average RF Power | | 3.4kW |
| Overstressed fault mode | | Mode 3 |
| Characteristic impedance | | 50 Ω |
| Return loss | | >26dB @ 500MHz |
| Return loss (1.5mm spark gap) | | >20dB @ 1GHz |
| Insertion loss | | <0.1dB @ 500MHz |
| Insertion loss (1.5mm spark gap) | | <0.2dB @ 1GHz |

Mechanical Specifications

| | | |
|-------------------------------|---|------------------|
| Connection type | | 1 5/8" EIA |
| Minimum operating temperature |  | -40°C |
| Maximum operating temperature |  | 85°C |
| Minimum operating humidity |  | 5% |
| Maximum operating humidity |  | 95% |
| Mounting method |  | Bulkhead |
| Environmental rating |  | IP55 |
| Enclosure material |  | Brass and copper |
| Enclosure finish |  | Nickel Plated |

Other Specifications

| | | |
|--------------|---|----------|
| Product Code |  | CEIA-158 |
|--------------|---|----------|

Shipping Specifications

| | | |
|----------------|---|--------------------|
| Weight |  | 2kg |
| Customs tariff |  | 85363000, 85363010 |

Options

| | | |
|---------------------------------------|--|----------|
| Spark gap only, no TX controller | | Standard |
| 1RU 19" rack, one TX controller only | | 1 |
| 3RU 19" rack, up to 14 TX controllers | | n* |

* Denotes number of TX controllers