

BCN-MF-6

**DC blocking coaxial protection**

To protect low power RF equipment like wireless access points and cellular modems with external antennas, normal gas discharge tube (GDT) based SPDs may not have a sufficiently low let through voltage to provide complete protection. The Novaris BCN-MF-6 is a blocking unit that will block frequencies from DC up to several tens of megahertz. This will successfully block lightning impulses. The BCN-MF-6 may be used alone or following a GDT based SPD in areas of high lightning activity.

From 100MHz up to 6GHz the insertion loss of the BCN-MF-6 is less than 0.5dB and the return loss greater than 20dB. It therefore has almost negligible effect on the performance of the protected equipment.

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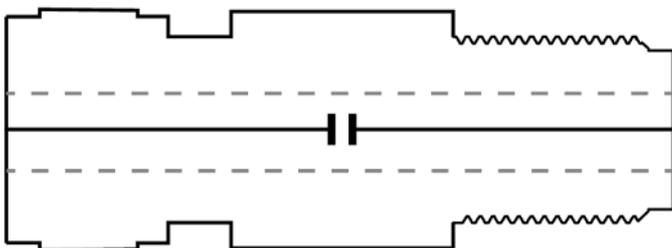
Installation

The BCN-MF-6 can be connected to the equipment antenna port and the antenna reconnected to the BCN-MF-6. Because this is a blocking unit it does not require external earthing - it is simply installed in line.

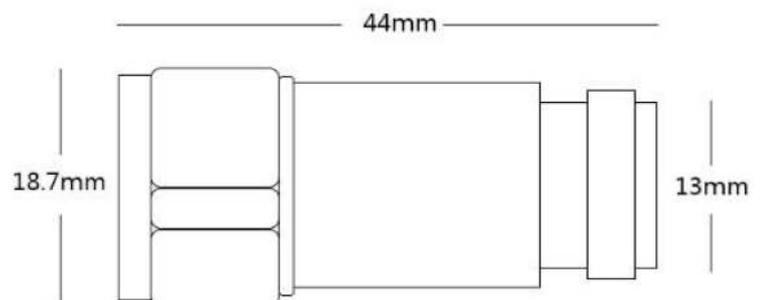
Premium All-Metal Enclosure

CNC machined brass and high gloss nickel plating is utilized for the body of the product. This provides excellent durability and high frequency characteristics.

Wiring



Dimensions



Product Datasheet

Electrical Specifications

| | | |
|--------------------------|---|-------------|
| Modes of protection | | Blocking |
| Connection type |  | Series |
| Max blocking voltage | | 200VDC |
| Working frequency range | | 100MHz-6GHz |
| Characteristic impedance | | 50Ω |
| VSWR | | <1.2:1 |
| Return loss | | >20dB |
| Insertion loss | | <0.5dB |

Mechanical Specifications

| | | |
|-------------------------------|---|---------------|
| Connection type | | N-Type |
| Connection orientation | | M/F |
| Minimum operating temperature |  | -40°C |
| Maximum operating temperature |  | 70°C |
| Minimum operating humidity |  | 5% |
| Maximum operating humidity |  | 95% |
| Mounting method |  | Inline |
| Environmental rating |  | IP55 |
| Enclosure material |  | Brass |
| Enclosure finish |  | Nickel Plated |
| Length |  | 44mm |
| Width |  | 19mm |
| Dimensional tolerance | | 1mm |

Shipping Specifications

| | | |
|--------|---|------|
| Weight |  | 480g |
|--------|---|------|