

This DC Block is used to prevent the flow of direct current and low frequency current surges along the inner and outer conductors of a transmission line, while permitting the unimpeded flow of RF signals. Applications include the blocking of current surges in subway tunnels. The unit consists of a length of coaxial line with a series capacitor in both the center conductor and outer conductor to block the flow of low frequencies, while passing RF with negligible loss or reflections.

FEATURES / BENEFITS

- Broadband frequency range from 80 to 3800MHz
- 3 kV High voltage rating
- Inner and Outer conductor separated
- PIM optimized design to minimize network interferences
- Minimal RF insertion loss
- 4.3-10 male/female connector

Technical features

GENERAL SPECIFICATIONS

| | | |
|------------------------|--|----------|
| Product Type | | DC Block |
| Techn. Application | | Indoor |
| Number of Input Ports | | 1 |
| Number of Output Ports | | 1 |

ELECTRICAL SPECIFICATIONS

| | | |
|------------------------------|---------|--|
| Frequency Range | MHz | 80 - 3800 |
| Impedance | Ohm | 50 |
| Insertion Loss | dB | 0.25 @80 - 3800 MHz |
| Max. VSWR / Return Loss, dB | VSWR/dB | 1.40/15.5 @80 - 100 MHz 1.30/17.7 @100 - 300 MHz 1.10/26.4 @300 - 1880 MHz 1.20/20.8 @1880 - 2700 MHz 1.25/19 @2700 - 3800 MHz |
| Intermodulation (IM3) | | 160dBc, typ -165dBc (2x20W) |
| Max. DC Blocking Voltage, KV | kV | 3 |

MECHANICAL SPECIFICATIONS

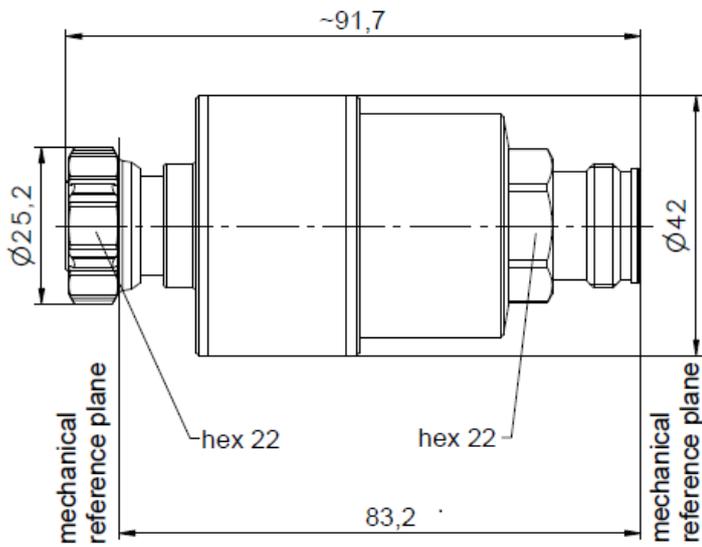
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|-----------------------|---------|---------------|
| Connectors | | 4.3-10 |
| Input Connector Type | | 4.3-10 male |
| Output Connector Type | | 4.3-10 female |
| Weight | kg (lb) | 0.3 (0.661) |

TEMPERATURE SPECIFICATIONS

| | | |
|-------------------|---------|------------------------|
| Temperature Range | °C (°F) | -40 to 55 (-40 to 131) |
|-------------------|---------|------------------------|

TESTING AND ENVIRONMENTAL

| | | |
|---------------------|--|------------------|
| Environmental Class | | IP67 per EN60529 |
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External Document Links

Notes

1. RF CW Power, max: 1500W @ 80MHz, 300W @1880MHz, 250W @ 2700MHz, 130W @3800MHz ((for VSWR=1,0 at sea level, ambient temperature 40°C)
2. Blocking DC voltage for VSWR=1,0 at sea level, ambient temperature 20°C