



2.4 mm Coaxial DC Block, 10 MHz to 50 GHz

Description:

Model SCB-050-2F2M-U2 is a 2.4 mm coaxial DC block that prevents the flow of DC current in the frequency range of 10 MHz to 50 GHz. The DC block has a typical insertion loss of 1 dB, a nominal return loss of 15 dB, and a characteristic impedance of 50 ohms, respectively. It is manufactured with 2.4 mm male and female connectors for convenient circuit insertion. The breakdown voltage is +50 Volts.



Features:

- Broad Band Coverage
- High Return Loss
- Low Cost

Applications:

- Test Lab
- Instrumentations
- System Integration

Electrical Specifications:

| Parameter | Minimum | Typical | Maximum |
|---------------------------|------------------|------------------|------------------|
| Frequency | 10 MHz | | 50 GHz |
| Insertion Loss | | 1 dB | |
| Return Loss | | 15 dB | |
| Breakdown Voltage | | | 50 Volts |
| Impedance | | 50 Ω | |
| Specification Temperature | | +25 $^{\circ}$ C | |
| Operating Temperature | -40 $^{\circ}$ C | | +85 $^{\circ}$ C |

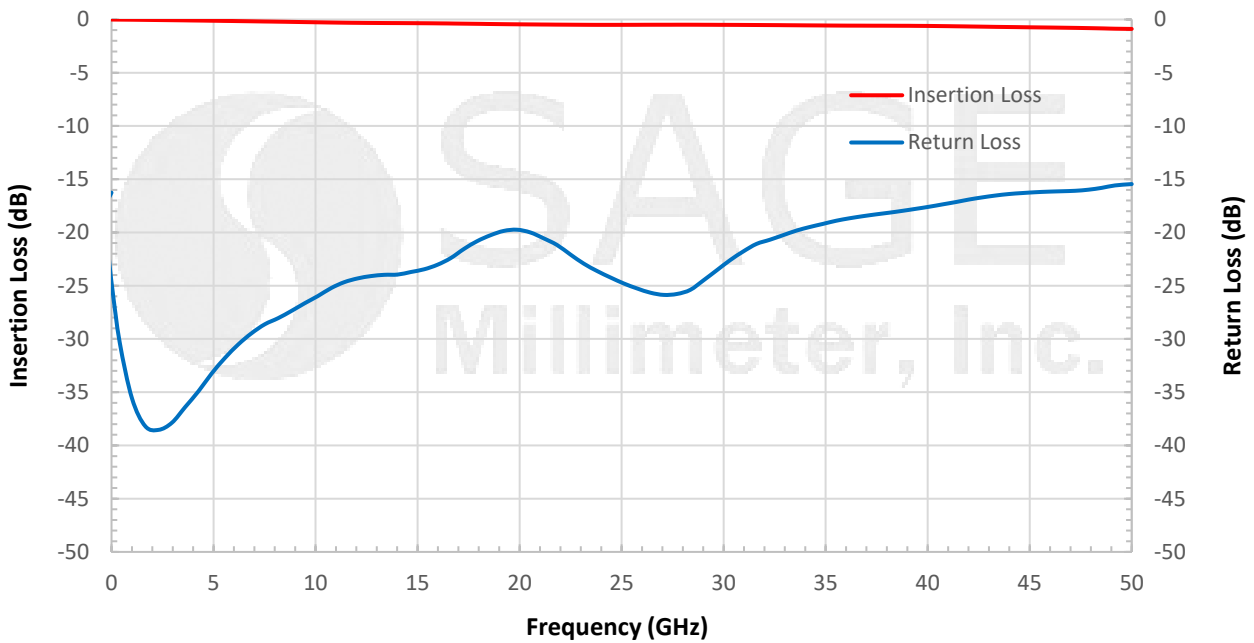
Mechanical Specifications:

| Port | Connector |
|-------------|-----------------|
| Connector 1 | 2.4 mm Female |
| Connector 2 | 2.4 mm Male |
| Material | Stainless Steel |
| Finish | Passivated |
| Length | 0.96" |
| Outline | CB-2-050-CE1 |

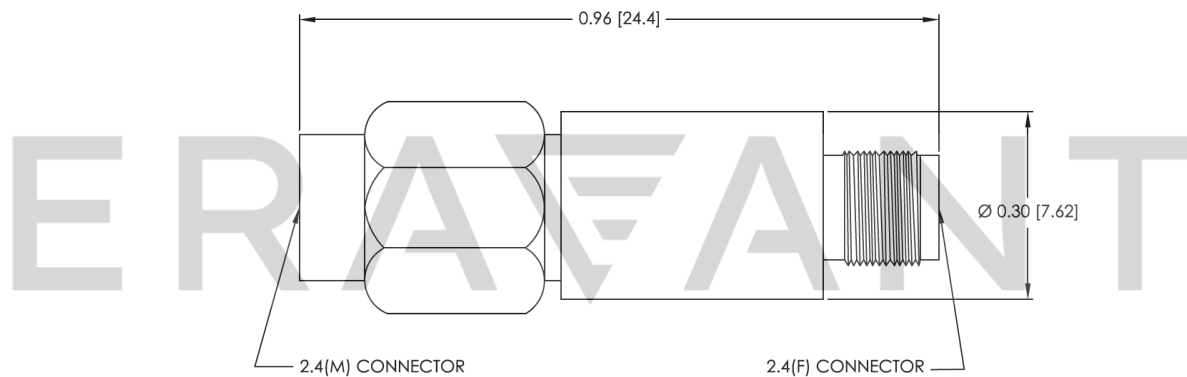


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Typical Performance vs. Frequency



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- All testing was performed under +25 °C case temperature.
- Eravant reserves the right to change the information presented without notice.

Caution:

- Proper torque, 8.0 ± 0.15 inch-pounds (0.92 ± 0.05 Nm), should be applied. **Eravant torque wrench, model SCH-08008-U3, is highly recommended.**

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