

## 2.4 mm Coaxial DC Block, 5 MHz to 50 GHz

### Description:

**Model SCB-050-2F2M-U7** is a coaxial DC block that prevents the flow of DC current in the frequency range of 5 MHz to 50 GHz. The DC block has a typical insertion loss of 0.4 dB, a nominal return loss of 18 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:

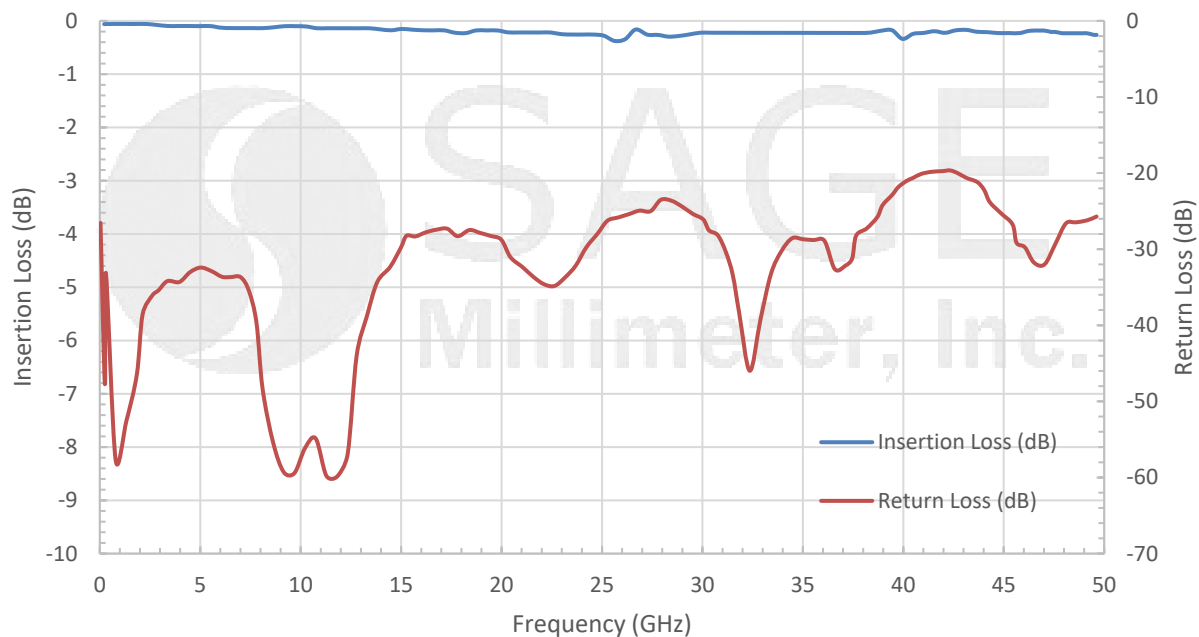
Parameter	Minimum	Typical	Maximum
Frequency	5 MHz		50 GHz
Insertion Loss		0.4 dB	0.6 dB
Return Loss	16 dB	18 dB	
Input Power			+33 dBm
Breakdown Voltage			50 V
Impedance		50 $\Omega$	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

### Mechanical Specifications:

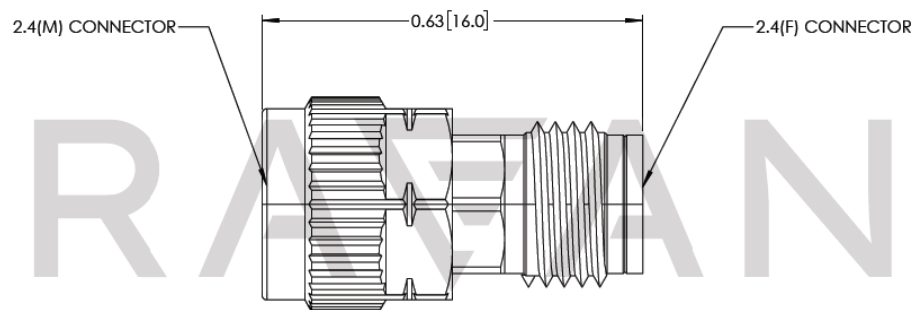
Port	Connector
Connector 1	2.4 mm Female
Output Port	2.4 mm Male
Material	Stainless Steel
Finish	Passivated
Length	0.63"
Outline	CB-2-050-SR1

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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,  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm), should be applied. **Eravant torque wrench, model SCH-08008-U3, is highly recommended.**