SCB-050-3F3M-U6

Rev. 1.0

3.5 mm Coaxial DC Block, 0.03 GHz to 26.5 GHz

Description:



Model SCB-050-3F3M-U6 is a 3.5 mm coaxial DC block to operate in the frequency range of 0.03 to 26.5 GHz. The typical insertion loss of the coaxial DC block is 0.6 dB and the DC block has a typical return loss of 19 dB and a characteristic impedence of 50 Ohms, respectively. It is manufactured with 3.5 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	0.03 GHz		26.5 GHz
Insertion Loss		0.6 dB	
Return Loss @ DC to 15 GHz		22 dB	
Return Loss @ 15 to 26.5 GHz		19 dB	
Breakdown Voltage			50 V
Impedance		50 Ω	
Specification Temperature		+25 ˚C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
Connector 1	3.5 mm Female
Connector 2	3.5 mm Male
Mating Life Cycle	500 Cycles
Body Material	Stainless Steel
Body Finish	Passivated
Connector Material	Beryllium Copper
Connector Finish	Gold Plated
Length	1.33”
Outline	CB-3-050-QW1

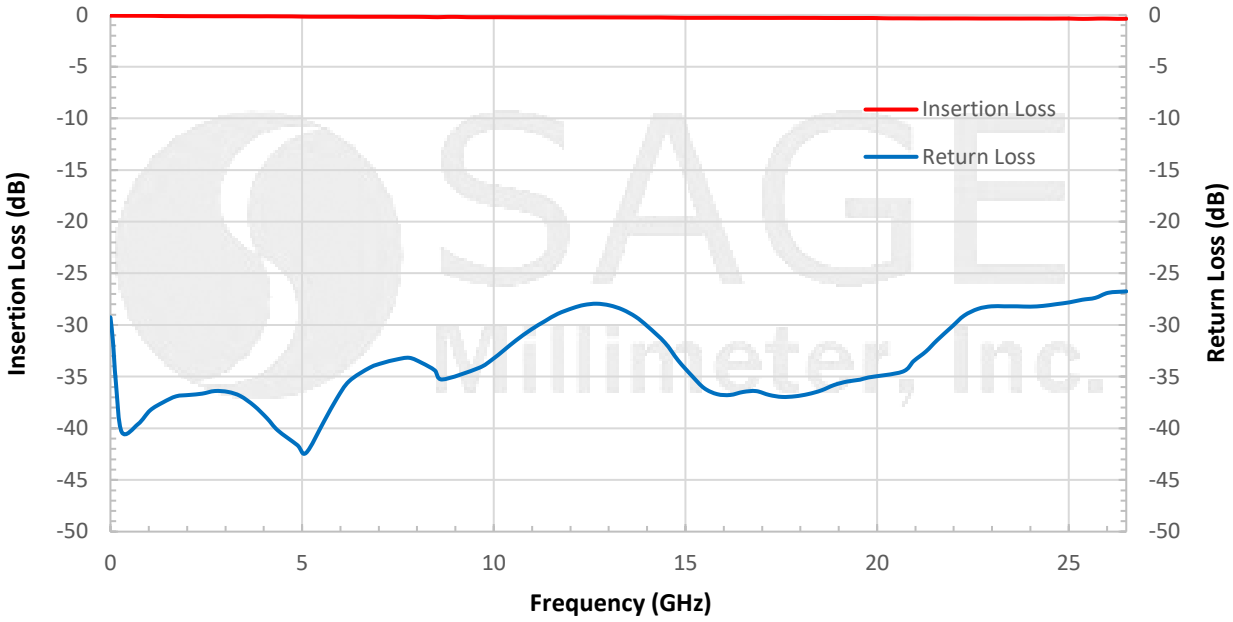
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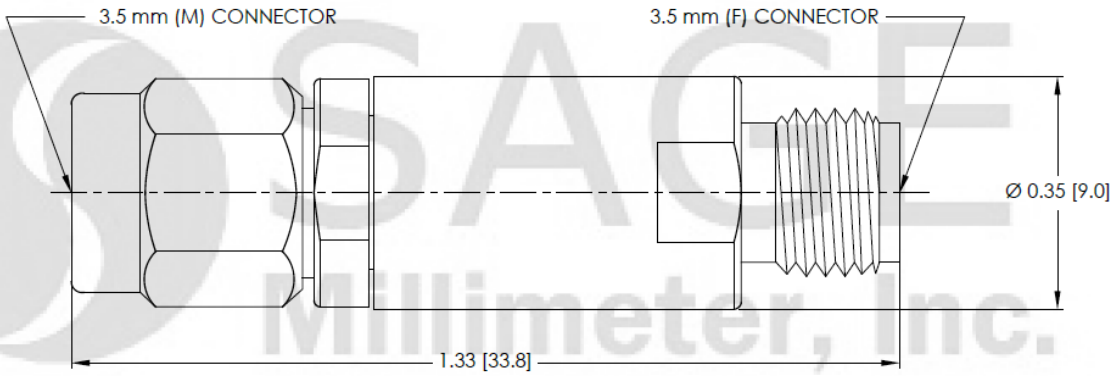
SAGE Millimeter, Inc.

3.5 mm Coaxial DC Block, 0.03 GHz to 26.5 GHz

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, slightly.
- All testing was performed under +25 °C case temperature.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Exceeding absolute maximum ratings shown will damage the device.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-U3, is highly recommended.**

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