

## Full Ka Band Coax Isolator, 16 dB Insertion Loss, 14 dB Isolation

### Description:

**Model SNC-2734031614-KFKM-I7** is a full Ka band coaxial isolator that covers the frequency range of 26.5 to 40 GHz. The full band isolator is designed and manufactured to provide an insertion loss of 1.6 dB typical with good flatness. The isolator also offers a moderate isolation of 14 dB and a high-power handling for system integration. The input port is K (F) connector and output ports is K (M) connector. The RF interface of other type of connector combinations are also offered under different model numbers.



### Features:

- Broad Band Operation
- High Power Handling
- Moderate Isolation

### Applications:

- Port Isolation
- Instrumentation
- Module Integration

### Electrical Specifications:

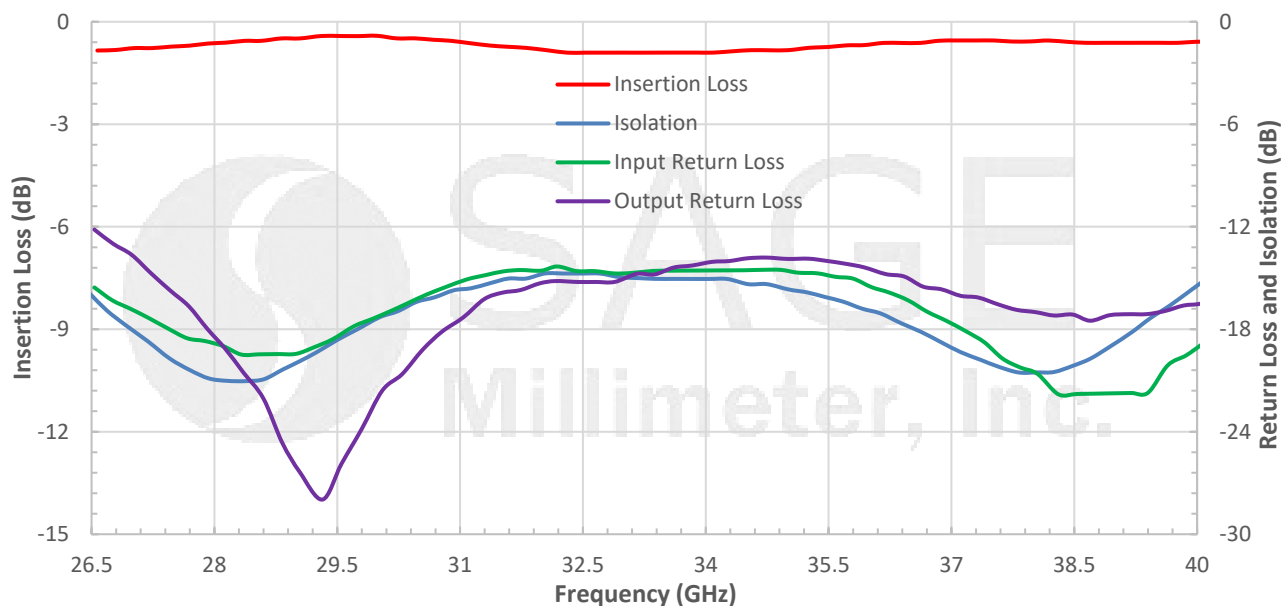
Parameter	Minimum	Typical	Maximum
Frequency	26.5 GHz		40 GHz
Insertion Loss		1.6 dB	
Isolation		14 dB	
Return Loss		12 dB	
Forward Power Handling			10 W (CW)
Reverse Power Handling			1 W (CW)
Impedance		50 $\Omega$	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+80 °C

### Mechanical Specifications:

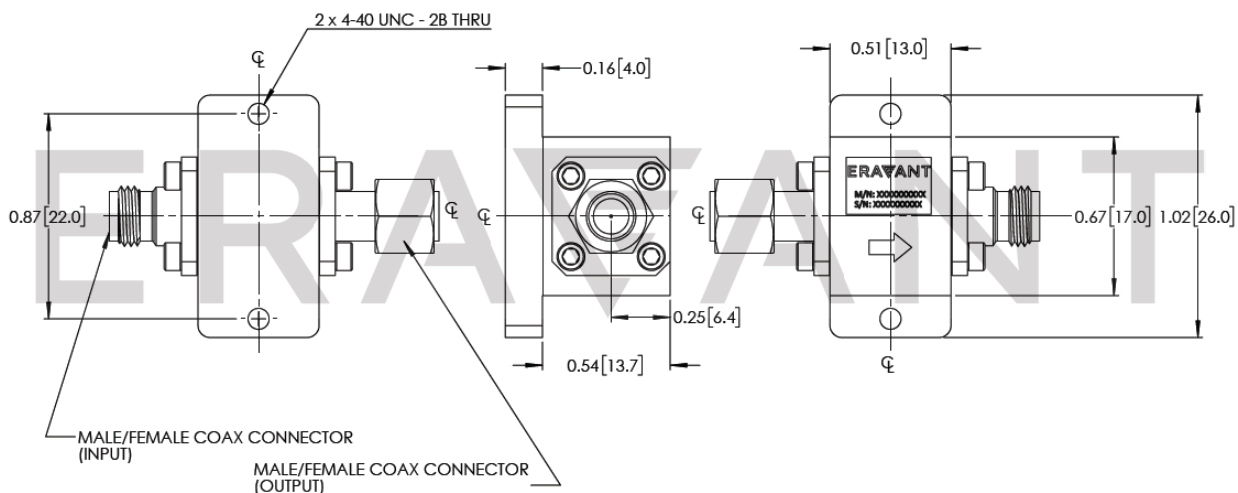
Item	Specification
Input Port	K(F)
Output Port	K(M)
Case Material	Copper
Finishing	Nickel Plated
Connector Material	Stainless Steel
Connector Finishing	Passivation
Weight	1.06 Oz
Size	0.51" (L) x 1.02" (W) x 0.70" (H)
Outline	NC-IA-DB1

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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 slightly.
- Other input/output connector type combinations are available under different model numbers.
- Eravant reserves the right to change the information presented without notice.

### Caution:

- Exceeding absolute maximum ratings will damage the device.
- The device is magnetic field sensitive. Always keep magnetic fields a minimum of 6 inches away.
- Proper torque,  $8.0 \pm 0.15$  inch-pounds ( $0.92 \pm 0.05$  Nm), should be applied. **Eravant torque wrench, model SCH-08008-S1, is highly recommended.**



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