



## Full K Band Coax Circulator, 1.6 dB Insertion Loss, 14 dB Isolation

### Description:

**Model SNC-1832731614-KFKFKF-C7** is a full K band coaxial circulator that covers the frequency range of 18 to 26.5 GHz. The full band circulator is designed and manufactured to provide an insertion loss of 1.6 dB typical with good flatness. The circulator also offers a moderate isolation of 14 dB and a high-power handling for system integration. The input and output ports are 2.92 mm (K) female connectors. The RF interface of other type of connector combinations are also offered under different model numbers.



### Features:

- Full Band Operation
- High Power Handling
- Moderate Isolation

### Applications:

- Port Isolation
- Instrumentation
- Module Integration

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	18 GHz		26.5 GHz
Insertion Loss		1.6 dB	
Isolation		14 dB	
Return Loss		12 dB	
Forward Power Handling			10 W (CW)
Impedance		50 $\Omega$	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+80 °C

### Mechanical Specifications:

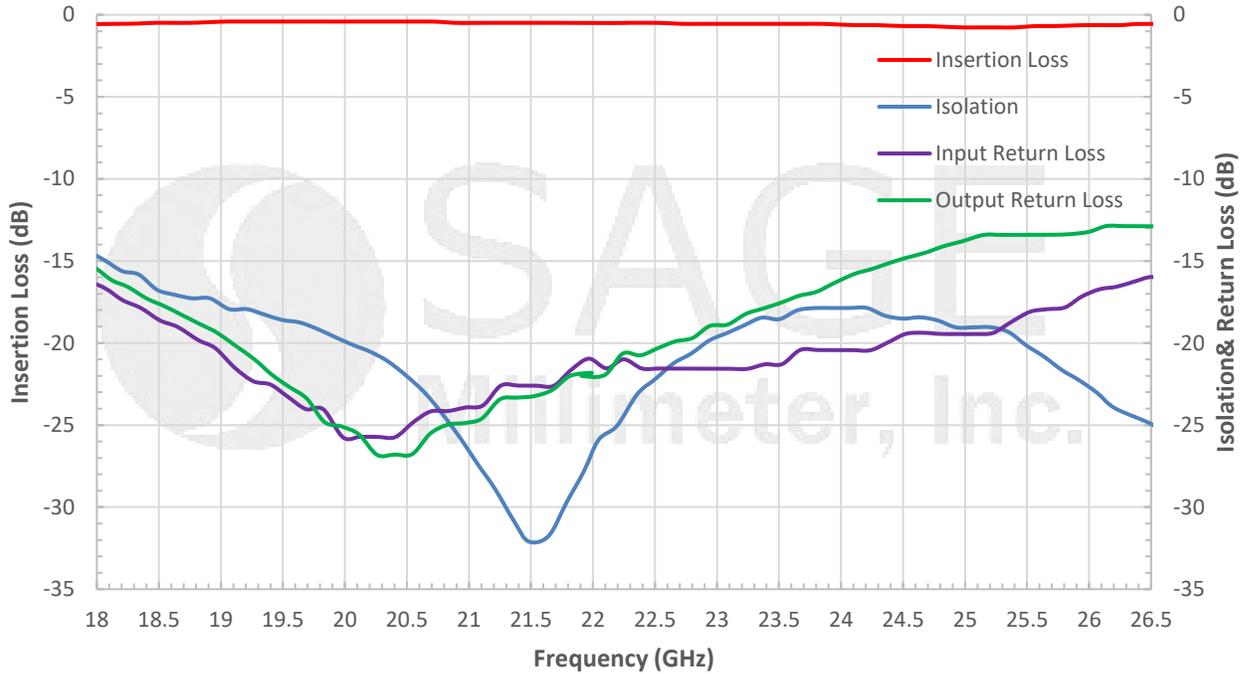
Item	Specification
Connector 1	2.92 mm Female
Connector 2	2.92 mm Female
Connector 3	2.92 mm Female
Case Material	Copper
Finishing	Nickel Plated
Connector Material	Stainless Steel
Connector Finishing	Passivation
Weight	1.06 Oz
Size	0.51" (L) x 0.98" (W) x 0.66" (H)
Outline	NC-CA-DB1



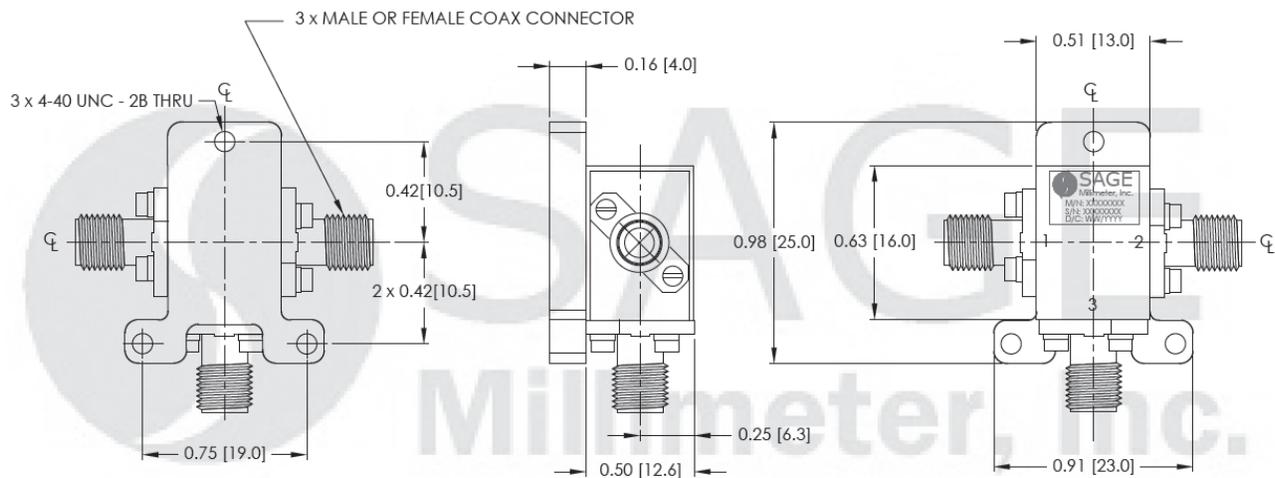


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Typical Performance vs. Frequency



**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.
- Other input/output connector type combinations are available under different model numbers.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.



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### 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 ( $0.90 \pm 0.02$  Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-U3, is highly recommended**

