



## 2-Way Coaxial Power Splitter, 1 to 40 GHz

### Description:

**Model SCS-0134031215-KFKF-22** is a coaxial 2-way power splitter with a typical insertion loss of 1.2 dB at each output port and a typical isolation of 15 dB across the frequency range of 1 to 40 GHz. The power splitter has a maximum power handling of 20 W (CW) and a typical amplitude unbalance of 0.5 dB. The return loss for all ports is 11 dB typical. The RF connectors of the power splitter are female 2.92 mm (K) connectors.



### Features:

- Low Insertion Loss
- High Isolation
- Compact Package

### Applications:

- Test Lab
- Sub-assemblies
- Test Instrumentation

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	1.0 GHz		40.0 GHz
Insertion Loss*		1.2 dB	
Amplitude Unbalance		0.5 dB	
Phase Unbalance		±8.0°	
Port Isolation		15 dB	
Forward Power Handling			20 W (CW)
Reverse Power Handling			2 W (CW)
Impedance		50 Ohms	
Return Loss		11 dB	
Specification Temperature		+25°C	
Operating Temperature	-55°C		+125°C

\*Note: The insertion loss is circuit loss, which does not include the power dividing loss.

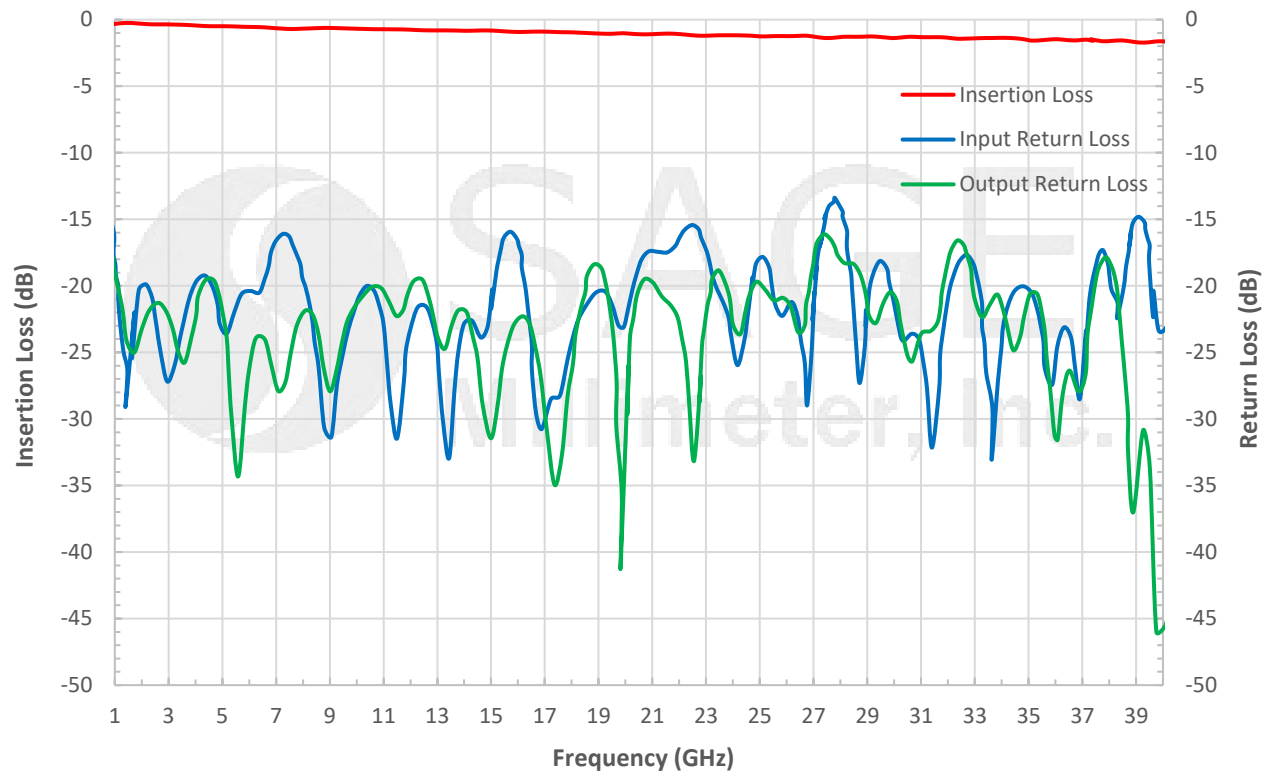
### Mechanical Specifications:

Item	Parameter
RF Connectors	K(F)
Case Material	Aluminum
Finish	Black Paint
Size	3.07" (L) x 1.02" (W) x 0.50" (H)
Outline	CS-A2-R4

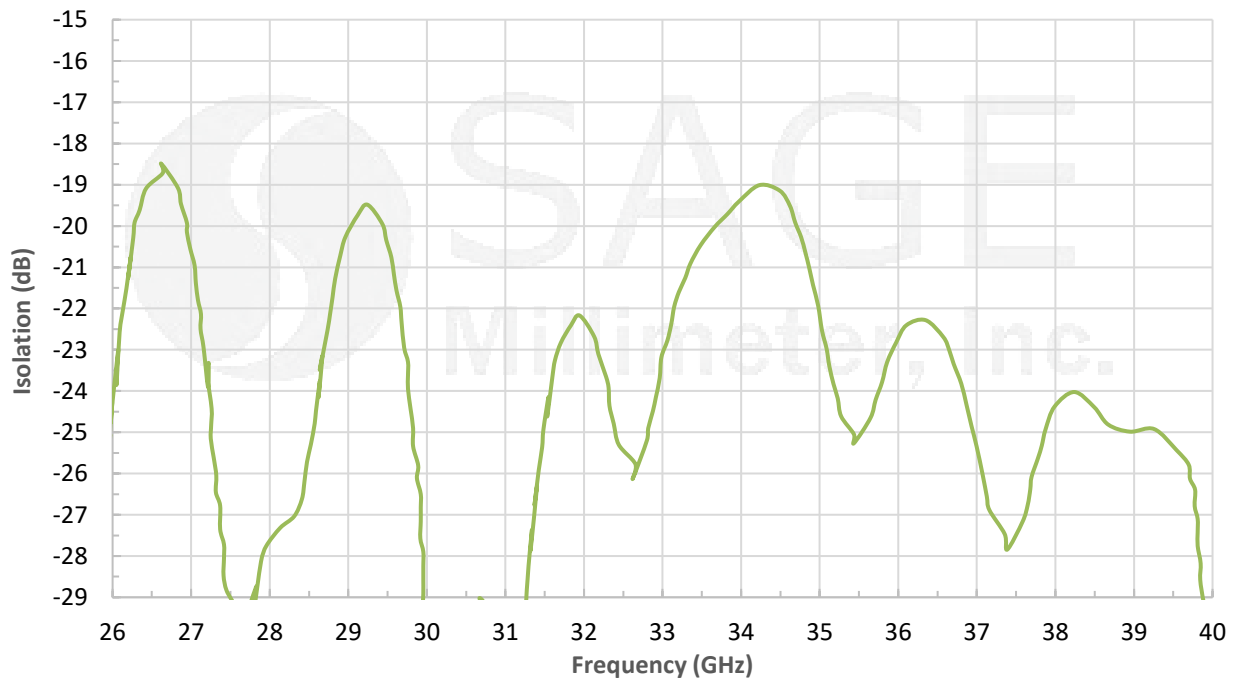


## 2-Way Coaxial Power Splitter, 1 to 40 GHz

### Typical Performance vs. Frequency



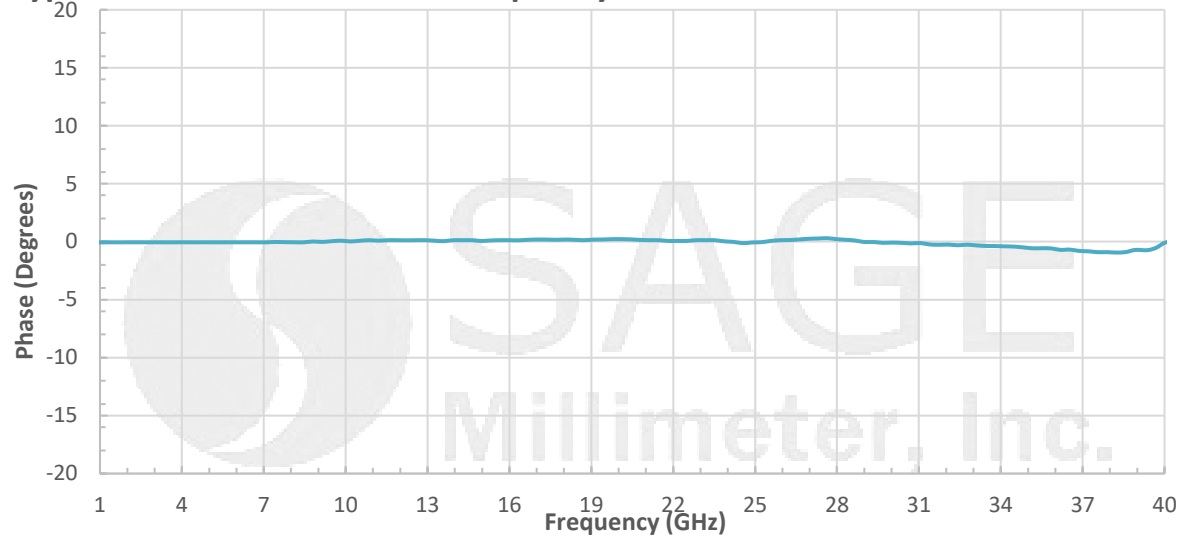
### Typical Isolation vs. Frequency



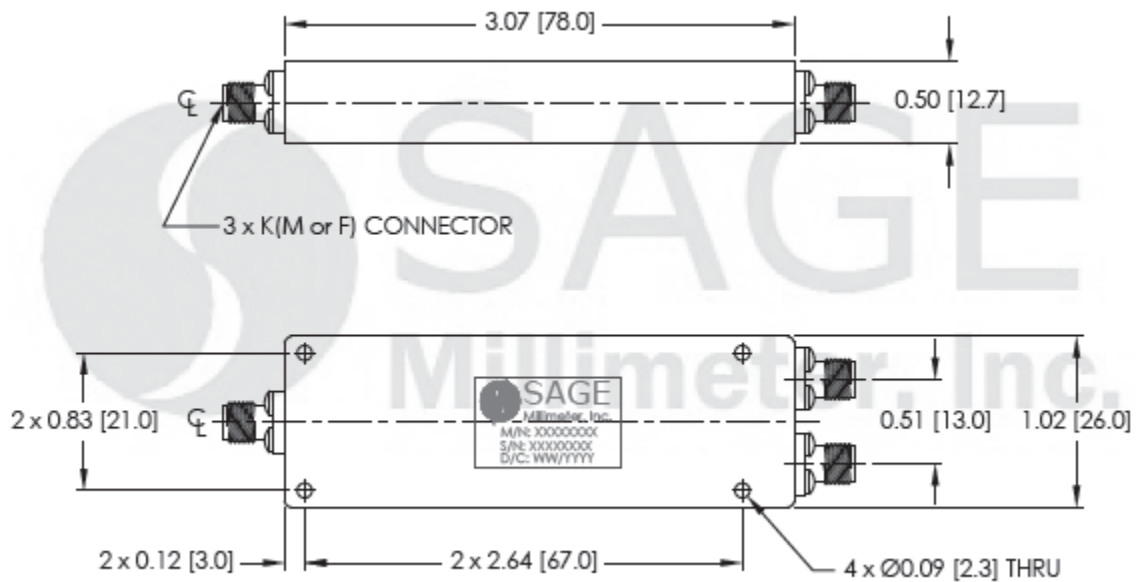


## 2-Way Coaxial Power Splitter, 1 to 40 GHz

Typical Phase Unbalance 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:**

- Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**

www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505  
 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com