# SWC-222M-R1-599-WP

#### Q-Band Waveguide to 2.4 mm Connector Adapter, Right Angle, Non-Standard Flange

### **Description:**

**Models SWC-222M-R1-599-WP** are right angle (90°) Q-Band waveguide to coax adapters with a nonstandard square flange (UG599/U-M) that cover the frequency range of 33 to 50 GHz. They are designed and manufactured for instrumentation grade quality but offered at a commercial grade price, allowing for an efficient transition between the rectangular waveguide to 2.4 mm coax connector. The end launch (180°) versions are offered under model numbers SWC-222F-E



### **Features:**

- Broad Band Coverage
- Lower Insertion Loss and VSWR
- Instrumentation Grade
- DC Open Circuit

**Electrical Specifications:** 

### Applications:

- Test Lab
- Instrumentations
- Sub-assemblies

Parameter	Minimum	Typical	Maximum
Frequency Range	33 GHz		50 GHz
Insertion Loss*		0.4 dB	0.7 dB
Return Loss	16 dB	18 dB	
Power Handling	A CONTRACT OF A		40 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

\*Insertion loss is tested back to back with a male and female adapter, the result is divided by 2.

### **Mechanical Specifications:**

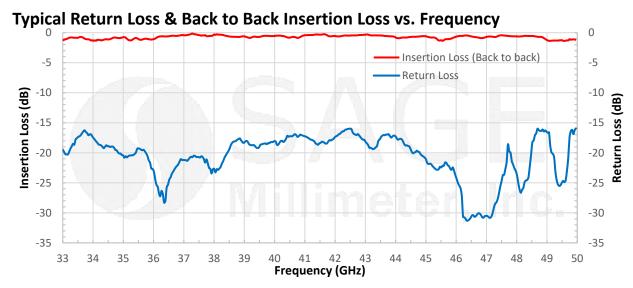
Item	Parameter
Waveguide	WR-22 with Non-Standard UG-599/U-M Square Flange
Coaxial	2.4 mm Male for Model Number: SWC-222M-R1-599-WP
Size	1.00" (L) x 0.75" (S)
Housing Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WC-QS-599



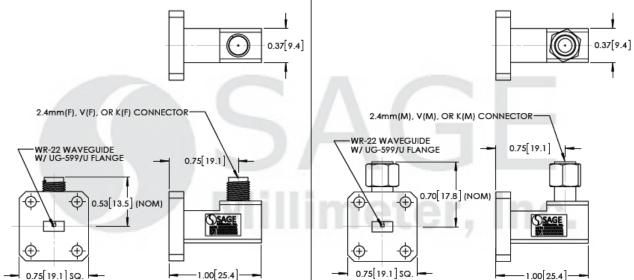
www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com

## SWC-222M-R1-599-WP

### Q-Band Waveguide to 2.4 mm Connector Adapter, Right Angle, Non-Standard Flange



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.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

**Caution:** 

- Any foreign objects in the waveguide will cause performance degradation and may damage the adapter.
- 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