SWD-4040H-28-BB

Description:

Model SWD-4040H-28-BB is a Ka band, four-port waveguide bi-directional coupler that delivers a 40 dB nominal coupling level and 35 dB minimum directivity across the full waveguide band from 26.5 to 40 GHz. The four-port coupler uses a traditional multi-hole and split block design to achieve a flat coupling level, high directivity, and low insertion loss. The interfaces of the coupler are WR-28 waveguides with UG-599/U flanges. Custom coupling levels are available under different model numbers.



Features:

- Full Band Operation
- Low Insertion Loss
- High Directivity

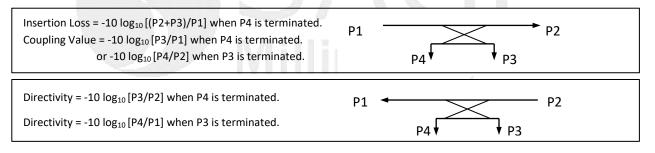
Applications:

- Test Labs
- Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	26.5 GHz		40 GHz
Insertion Loss*		0.5 dB	
Coupling*		40 dB	
Directivity*	35 dB		
VSWR			1.1:1
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

* The definition of the insertion loss, coupling and directivity is show as following.





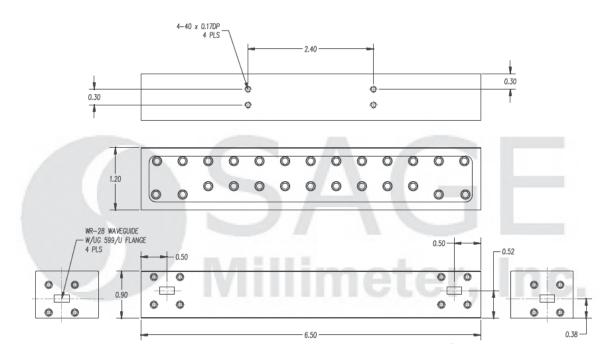
www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com Rev. 1.0

Ka-Band Waveguide Bi-Directional Coupler, 40 dB

Mechanical Specifications:

Item	Specification	
Through Ports	WR-28 Waveguide with UG/599 Flange	
Coupled Port	WR-28 Waveguide with UG/599 Flange	
Size	6.50" (L) X 1.20" (W) x 0.90" (H)	
Material	Brass	
Finish	Gold Plated	
Weight	1.4 lb	
Outline	WD-SB-A	

Mechanical Outline: (Unless otherwise specified, all dimensions are in inches)



Note:

- All data was presented using a limited sample lot. Actual data may vary unit to unit.
- The insertion loss shown includes the loss due to coupling.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

RoHS

• Any foreign objects in the waveguide will degrade performance and/or damage the device.

www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505

Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com

SAGE Millimeter, Inc.