

V-Band Waveguide Directional Coupler, 6 dB

Description:

Model SWD-0640H-15-SB is a V band, three-port waveguide directional coupler that delivers a 6 dB nominal coupling level and 30 dB minimum directivity across the full waveguide band from 50 to 75 GHz. The three-port coupler uses a traditional multihole and split block design to achieve a flat



coupling level, high directivity, and low insertion loss. The interfaces of the coupler are WR-15 waveguides with UG-385/U anti-cocking flanges. Custom coupling levels are available under different model numbers.

Features:

- Full Band Operation
- Low Insertion Loss
- High Directivity

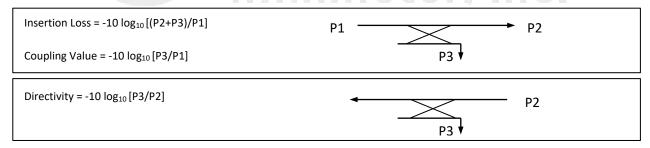
Applications:

- Test Labs
- Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	50 GHz		75 GHz
Insertion Loss*	A	0.7 dB	69
Coupling*	//	6 dB	
Directivity*	30 dB	40 dB	10
VSWR		Ø	1.1:1
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

^{*} The definition of insertion loss, coupling and directivity is show below:





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



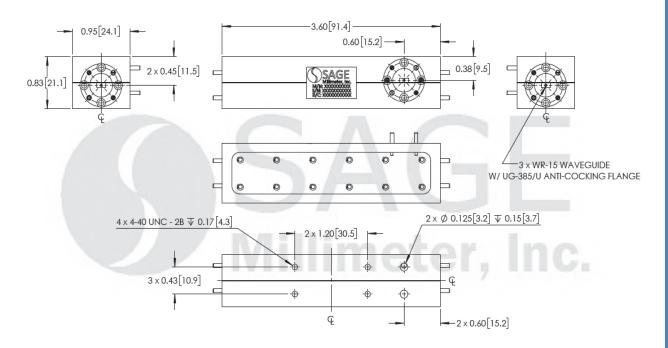
V-Band Waveguide Directional Coupler, 6 dB

Mechanical Specifications:

Item	Specification	
Through Ports	WR-15 Waveguide with UG-385/U Anti-Cocking Flange	
Coupled Port	WR-15 Waveguide with UG-385/U Anti-Cocking Flange	
Size	3.60" (L) X 0.95" (W) x 0.83" (H)	
Material	Brass	
Finish	Gold Plated	
Weight	7.5 Oz	
Outline	WD-SB-V-A	



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



Note:

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

Caution:

• 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