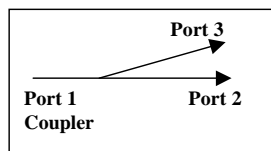


New High Frequency WR2 & WR5 Branch Couplers

February 2006

VDI has recently developed a series of Branch Couplers (BC) for operation in the 150-650 GHz Band. The challenge of designing and fabricating couplers at these high frequencies has been addressed by VDI with initial success in the WR2 & WR5 bands. Further development and refinement is expected during 2006. VDI recognizes the importance of couplers for the advancement of mm-wave and THz system integration and reliability.



Coupler Insertion Loss (i.e. port 1 to 2)	3.8 dB
Coupling Factor (i.e. port 1 to 3)	12.6 dB
Difference in Power between Port 2 and Port 3 (power incident port 1)	8.8 dB
Isolation (i.e. port 2 to 3)	26.2 dB

WR2 BC shown above and WR5 BC shown below

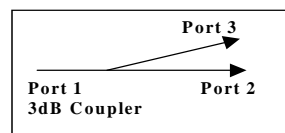
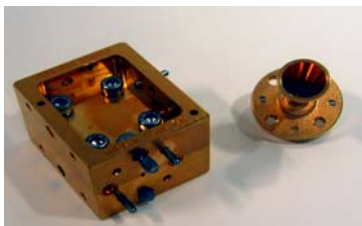
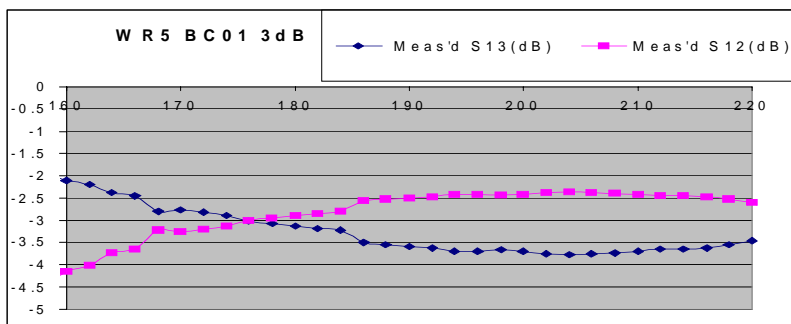


Figure 1 Photograph and diagram of the product is shown.



Contact VDI today for further information about this and other VDI products

Virginia Diodes, Inc., 979 2nd Street SE, Suite 309, Charlottesville, VA 22902, USA
 Phone: 434.297.3257 FAX: 434.297.3258 e-mail: VDIRFQ@virginiadiodes.com