VDI Broadband Frequency Doubler Specifications

Product Name	WR15X2	WR12X2	WR10X2	WR8.0X2	WR6.5X2	WR5.1X2	WR4.3X2	WR3.4X2
RF Output Frequency (GHz)	50-75	60-90	75-110	90-140	110-170	140-220	170-260	220-330
Output Flange	WR-15 UG-387/U-M	WR-12 UG-387/U-M	WR-10.0 UG-387/U-M	WR-8.0 UG-387/U-M	WR-6.5 UG-387/U-M	WR-5.1 UG-387/U-M	WR-4.3 UG-387/U-M	WR-3.4 UG-387/U-M
Input Flange	2.9mm(f)	2.4mm(f)	WR-21.0 UG-383/U	WR-15 UG-387/U-M	WR-12.2 UG-387/U-M	WR-10 UG-387/U-M	WR-8.6 UG-387/U-M	WR-6.5 UG-387/U-M
RF Input Power (mW)	250-1000	500-1000	250-500	50-200	50-200	20-50	20-50	20-50
Typical Efficiency (%)*	9	8	9	9	8	7.5	6	6

Product Name	WR2.8X2	WR2.2X2	WR1.9X2					
RF Output Frequency (GHz)	260-400	330-500	400-600					
Output Flange	WR-2.8 UG-387/U-M	WR-2.2 UG-387/U-M	WR-1.9 UG-387/U-M					
Input Flange	WR-5.1 UG-387/U-M	WR-4.6 UG-387/U-M	WR-3.8 UG-387/U-M					
RF Input Power (mW)	10-35	5-20	10-30					
Typical Efficiency (%)*	4	3	2.5					

*Efficiency assumes appropriate RF input power is applied to frequency doubler.

General Notes:

- VDI broadband doublers require bias. Current bias box included. Customer must be able to supply +12VDC (0.25A max) to bias box.
- Reduced efficiency possible at band edges & upper and lower input power limits.
- The multiplier can be configured to operate at an RF input power level within the wide RF input power range specified above. However, the multiplier is expected to operate approximately ±1dB centered around the RF input power level specified, not exceeding the maximum or minimum RF input power range listed above. Different biases may be required to achieve optimal performance across the full input power range specified above. Efficiency may be reduced at low RF input power levels.

Purchasing Notes:

- Customer must specify available input power, so bias can be configured appropriately at VDI.

Typical data is available at www.vadiodes.com

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