



VDI Broadband Frequency Tripler Specifications

Product Name	WR15X3	WR12X3	WR10X3	WR9.0X3	WR8.0X3	WR6.5X3	WR5.1X3	WR4.3X3	WR3.4X3	WR2.8X3
RF Output Frequency (GHz)	50-75	60-90	75-110	82-125	90-140	110-170	140-220	170-260	220-330	260-400
Output Flange*	WR-15	WR-12	WR-10	WR-9.0	WR-8.0	WR-6.5	WR-5.1	WR-4.3	WR-3.4	WR-2.8
Input Flange*	2.9mm(f)	2.9mm(f)	2.9mm(f)	2.9mm(f)	2.4mm(f)	WR-19.5	WR-15.3	WR-12.9	WR-10.2	WR-8.4
Available Input Power Options	HP (100-500mW)	HP (75-400mW)	MP (40-220mW) HP (60-360mW)	HP (60-250mW)	MP (20-100mW) HP (40-240mW)	S (20-100mW) HP (40-200mW)	S (10-40mW) HP (20-100mW)	S (10-40mW) HP (20-100mW)	S (5-35mW) HP (20-90mW) UHP (30-160mW)	S (5-35mW) HP (20-90mW) UHP (30-160mW)
Typical Efficiency (%)**	3.5	3.5	3.5	3.5	3	3	3	3	3	3

Product Name	WR2.2X3	WR1.9X3	WR1.5X3	WR1.2X3	WR1.0X3	WR0.8X3	WR0.65X3	WR0.51X3		
RF Output Frequency (GHz)	330-500	400-600	500-750	600-900	750-1100	900-1400	1100-1700	1400-2200		
Output Flange*	WR-2.2	WR-1.9	WR-1.5	WR-1.2	WR-1.0	WR-0.8	WR-0.65 UG-387/U-M	~25dBi Diagonal Horn		
Input Flange*	WR-6.6	WR-5.7	WR-4.5	WR-3.6	WR-3.0	WR-2.4	WR-1.9	WR-1.5		
Available Input Power Options	S (5-25mW) HP (15-70mW) UHP (20-150mW)	S (5-25mW) HP (15-65mW) UHP (20-140mW)	S (5-25mW) HP (15-65mW)	S (5-25mW) HP (15-60mW)	S (5-25mW) HP (15-60mW)	S (5-25mW)	LP (0.5-4.5mW)	LP (0.5-3mW)		
Typical Efficiency (%)**	2	1.5	1.5	1	0.5	0.2	0.2	0.1		

*All waveguide flanges are UG-387/U-M flanges except for WR19.5, which has a UG-383/U flange.

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

General Notes:

- VDI broadband frequency triplers do not require bias.
- Reduced efficiency possible at band edges & upper and lower input power limits.
- For WR1.0 and higher frequency, VDI will only test over ~25% of RF Output Frequency range (e.g. 800-880 GHz for WR1.0X3). Please specify the desired frequency range. Additional testing can be purchased, contact VDI.

How to Order:

PRODUCT-AA

PRODUCT= Choose from "Product Name" in above table.

AA = Power Option

Examples:

WR2.2X3HP - VDI Frequency Tripler with output frequency of 330-500GHz and RF input power of 15-70mW

WR10X3MP - VDI Frequency Tripler with output frequency 75-110GHz and RF input power of 40-220mW

Typical data is available on the VDI website.