

Virginia Diodes, Inc. Waveguide Band Designations

12/2021

VDI Designation	Internal Dimensions (µm)		Cut-off frequency (GHz) *	Suggested min. frequency (GHz)	Suggested max. frequency (GHz)	Calculated Loss (dB/cm) for Au *		Alternate Designations	
	Width	Height				At min. frequency	At max. frequency		
WR-28	7112	3556	21.1	26.5	40	0.008	0.006	Ka	-
WR-22	5690	2845	26.35	33	50	0.012	0.008	Q	-
WR-19	4775	2388	31.39	40	60	0.015	0.010	U	-
WR-15	3759	1880	39.88	50	75	0.022	0.015	V	-
WR-12	3099	1549	48.37	60	90	0.030	0.020	E	-
WR-10	2540	1270	59.01	75	110	0.039	0.027	W	-
WR-8.0	2032	1016	73.77	90	140	0.059	0.038	F	WR-8
WR-6.5	1651	825.5	90.79	110	170	0.081	0.052	D	WR-6
WR-5.1	1295	647.5	115.8	140	220	0.12	0.074	G	WR-5
WR-4.3	1092	546	137.3	170	260	0.14	0.1	-	WR-4
WR-3.4	864	432	173.5	220	330	0.2	0.14	-	WR-3
WM-710 (WR-2.8)	710	355	211.1	260	400	0.28	0.18	-	-
WM-570 (WR-2.2)	570	285	263.0	330	500	0.37	0.25	-	-
WM-470 (WR-1.9)	470	235	318.9	400	600	0.5	0.34	-	-
WM-380 (WR-1.5)	380	190	394.5	500	750	0.67	0.47	-	-
WM-310 (WR-1.2)	310	155	483.5	600	900	0.95	0.64	-	-
WM-250 (WR-1.0)	250	125	599.6	750	1100	1.3	0.88	-	-
WM-200 (WR-0.8)	200	100	749.5	900	1400	2	1.2	-	-
WM-164 (WR-0.65)	164	82	914.0	1100	1700	2.6	1.7	-	-
WM-130 (WR-0.51)	130	65	1153	1400	2200	3.7	2.3	-	-
WM-106 (WR-0.43)	106	53	1414	1700	2600	5.1	3.2	-	-
WM-86 (WR-0.34)	86	43	1743	2200	3300	6.3	4.3	-	-

* Cutoff frequency and waveguide loss calculated according to IEEE P1785.1