

MCS INC – MICROWAVE COMPONENTS AND SYSTEMS INC
WAVEGUIDE SPECIFICATIONS

WR	RG	MIL-W-85/	WG	R	FREQ. RANGE GHZ	CUTOFF FREQ. GHZ	MATERIAL	INSERTION LOSS dB/ft	DIMENSIONS INCH	TOL.+/(INCH)	WALL THICKNESS (INCH)
WR 19	RG 358/U	3-015	WG 24	R-500	40.00-60.00	31.38	COPPER	.406-.285	.188 X .094	0.002	.040
		3-014	-	-	-	-	SILVER	.388-.273	.478 X .239 cm	0.005 cm	.101 cm
WR 22	RG 272/U	3-011	WG-23	R 400	33.00-50.00	26.34	COPPER	.322-.219	.224 X .112	.002	.040
	RG 97/U	3-010	-	-	-	-	SILVER	.309-.210	.568 X .284 cm	0.005 cm	.101 cm
WR 28	RG 271/U	3-007	WG-22	R 320	26.50-40.00	21.07	COPPER	.229-.157	.280 X .140	.002	.040
	RG 96/U	3-006	-	-	-	-	SILVER	.219-.150	.711 X .355 cm	0.005 cm	.101 cm
WR 34	RG 354/U	1-207	WG 21	R 260	22.00-33.00	17.35	COPPER	.168-.117	.340 X .170	.003	.040
	RG 355/U	1-111	-	-	-	-	6061 AL.	.253-.176	.863 X .431 cm	.007 cm	.101 cm
WR 42	RG 53/U	1-100	WG 20	R 220	18.00-26.50	14.05	COPPER	.138-.101	.420 X .170	.003	.040
	RG 121/U	1-104	-	-	-	-	6061 AL.	.207-.152	1.066 X .431 cm	.007 cm	.101 cm
WR 62	RG 91/U	1-087	WG 18	R 140	12.40-18.00	9.48	COPPER	.064-.047	.622 X .311	.003	.040
	RG 349/U	1-091	-	-	-	-	6061 AL.	.097-.071	1.579 X .789 cm	.007 cm	.101 cm
WR 75	RG 346/U	1-081	WG 17	R 120	10.00-15.00	7.86	COPPER	.051-.036	.750 X .375	.003	.050
	RG 347/U	1-084	-	-	-	-	6061 AL.	.077-.054	1.905 X .952 cm	.007 cm	.127 cm
WR 90	RG 52/U	1-075	WG 16	R 100	8.20-12.40	6.55	COPPER	.043-.030	.900 X .400	.003	.050
	RG 67/U	1-078	-	-	-	-	6061 AL.	.065-.045	2.286 X 1.016 cm	.007 cm	.127 cm
WR112	RG 51/U	1-069	WG 15	R 84	7.05- 10.00	5.25	COPPER	.028-.022	1.122 X .497	.004	.064
	RG 68/U	1-072	-	-	-	-	6061 AL.	.042-.032	2.849 X 1.262 cm	.010 cm	.162 cm
WR137	RG 50/U	1-063	WG 14	R 70	5.85-8.20	4.30	COPPER	.020-.016	1.372 X .622	.004	.064
	RG 106/U	1-066	-	-	-	-	6061 AL.	.030-.023	3.484 X 1.579 cm	.010 cm	.162 cm
WR159	RG 343/U	1-057	WG 13	R 58	4.90-7.05	3.71	COPPER	.016-.012	1.590 X .795	.004	.064
	RG 344/U	1-060	-	-	-	-	6061 AL.	.023-.017	4.038 X 2.019 cm	.010 cm	.162 cm
WR187	RG 49/U	1-051	WG 12	R 48	3.95-5.85	3.15	COPPER	.014-.010	1.872 X .872	.005	.064
	RG 95/U	1-054	-	-	-	-	6061 AL.	.021-.015	4.754 X 2.214 cm	.012 cm	.162 cm
WR229	RG 340/U	1-045	WG11A	R 40	3.30-4.90	2.57	COPPER	.009-.007	2.290 X 1.145	.005	.064
	RG 341/U	1-048	-	-	-	-	6061 AL.	.014-.010	5.816 X 2.908 cm	.012 cm	.162 cm
WR284	RG 48/U	1-039	WG 10	R 32	2.60-3.95	2.07	COPPER	.007-.005	2.840 X 1.340	.005	.080
	RG 75/U	1-042	-	-	-	-	6061 AL.	.011-.008	7.213 X 3.403 cm	.012 cm	.203 cm
WR340	RG 112/U	1-033	WG 9A	R 26	2.10-3.00	1.73	COPPER	.006-.004	3.400 X 1.700	.005	.080
	RG 113/U	1-036	-	-	-	-	6061 AL.	.009-.006	8.636 X 4.318 cm	.012 cm	.203 cm
WR430	RG 104/U	1-027	WG 8	R 22	1.70-2.60	1.37	COPPER	.004-.003	4.300 X 2.150	.008	.080
	RG 105/U	1-030	-	-	-	-	6061 AL.	.006-.004	10.922 X 5.48cm	.020 cm	.203 cm