

VSWR vs. Return loss (dB)

VSWR	RETURN LOSS (DB)
1.00	Infinite
1.05	32.3
1.10	26.4
1.15	23.1
1.20	20.8
1.22	20.1
1.25	19.1
1.30	17.7
1.40	15.6
1.50	14.0
1.70	11.7
1.92	10.0
2.00	9.5
3.00	6.0
6.00	2.9
10.00	1.7

Half wave dipole vs. isotropic dipole

Half wave dipole gain (with reference to isotropic radiator) 2.2 dB

Units:

Antenna gain (with reference to isotropic radiator): dBi

Antenna gain (with reference to half wave dipole): dBd

Generally: dBd = dBi - 2.2

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