

ELECTRICAL SPECIFICATIONS- PARABOLIC ANTENNAS

17.7-19.7 GHz (WR42)

Model Number	Frequency,	Diameter	3dB BW	Gain, dBi			XPD	F/B Ratio	VSWR, Max
	GHz	ft. (m)	degs	Low	Mid	High	dB	dB	(R.L., dB)
High Performance - Plane Polarized									
HPLP1-18	17.7-19.7	1 (0.3)	3.0	33.5	34.0	34.4	30	55	1.37:1 (16.1)
HP2-18	17.7-19.7	2 (0.6)	2.0	38.2	38.6	39.0	30	67	1.37:1 (16.1)
HP3-18	17.7-19.7	3 (0.9)	1.3	41.6	42.0	42.4	30	69	1.37:1 (16.1)
HP4-18	17.7-19.7	4 (1.2)	1.0	44.1	44.5	44.9	30	72	1.37:1 (16.1)
HP6-18	17.7-19.7	6 (1.8)	0.7	47.5	48.0	48.5	30	74	1.37:1 (16.1)
High Performance - Dual Polarized									
HPLPD1-18	17.7-19.7	1 (0.3)	3.0	33.3	33.8	34.2	30	55	1.37:1 (16.1)
HPD2-18	17.7-19.7	2 (0.6)	2.0	38.0	38.4	38.8	30	67	1.37:1 (16.1)
HPD3-18	17.7-19.7	3 (0.9)	1.3	41.4	41.8	42.2	30	69	1.37:1 (16.1)
HPD4-18	17.7-19.7	4 (1.2)	1.0	43.9	44.3	44.7	30	72	1.37:1 (16.1)
HPD6-18	17.7-19.7	6 (1.8)	0.7	47.3	47.8	48.3	30	74	1.37:1 (16.1)

21.2-23.6 GHz (WR42)

Model Number	Frequency, GHz	Diameter ft. (m)	3dB BW degs	Gain, dBi			XPD dB	F/B Ratio dB	VSWR, Max (R.L., dB)
				Low	Mid	High			
High Performance - Plane Polarized									
HPCPE-23	21.2-23.6	1 (0.3)	2.9	34.0	34.4	34.8	30	60	1.37:1 (16.1)
HPLP1-23	21.2-23.6	1 (0.3)	2.7	34.7	35.1	35.5	30	60	1.37:1 (16.1)
HP2-23	21.2-23.6	2 (0.6)	1.7	39.7	40.2	40.7	30	68	1.37:1 (16.1)
HP3-23	21.2-23.6	3 (0.9)	1.1	43.2	43.7	44.2	30	68	1.37:1 (16.1)
HP4-23	21.2-23.6	4 (1.2)	0.8	45.7	46.2	46.6	30	72	1.37:1 (16.1)
HP6-23	21.2-23.6	6 (1.8)	0.5	48.5	49.2	49.4	30	72	1.37:1 (16.1)
High Performance - Dual Polarized									
HPDCPE-23	21.2-23.6	1 (0.3)	2.9	33.8	34.2	34.6	30	60	1.37:1 (16.1)
HPLPD1-23	21.2-23.6	1 (0.3)	2.7	34.5	34.9	35.3	30	60	1.37:1 (16.1)
HPD2-23	21.2-23.6	2 (0.6)	1.7	39.5	40.0	40.5	30	68	1.37:1 (16.1)
HPD3-23	21.2-23.6	3 (0.9)	1.1	43.1	43.5	44.0	30	68	1.37:1 (16.1)
HPD4-23	21.2-23.6	4 (1.2)	0.8	45.4	46.0	46.4	30	72	1.37:1 (16.1)
HPD6-23	21.2-23.6	6 (1.8)	0.5	48.3	49.0	49.2	30	72	1.37:1 (16.1)

24.25-26.50 GHz (WR42)

Model Number	Frequency, GHz	Diameter ft. (m)	3dB BW degs	Gain, dBi			XPD dB	F/B Ratio dB	VSWR, Max (R.L., dB)
				Low	Mid	High			
High Performance - Plane Polarized									
HPCPE-26	24.25-26.50	1 (0.3)	2.6	35.3	35.7	35.9	30	62	1.37:1 (16.1)
HPLP1-26	24.25-26.50	1 (0.3)	2.5	35.7	36.1	36.5	30	62	1.37:1 (16.1)
HP2-26	24.25-26.50	2 (0.6)	1.4	40.7	41.1	41.5	30	69	1.37:1 (16.1)
HP3-26	24.25-26.50	3 (0.9)	1.0	44.2	44.6	45.0	30	72	1.37:1 (16.1)
HP4-26	24.25-26.50	4 (1.2)	0.7	46.5	46.9	47.2	30	74	1.37:1 (16.1)
High Performance - Dual Polarized									
HPLPD1-26	24.25-26.50	1 (0.3)	2.5	35.5	35.9	36.3	30	62	1.37:1 (16.1)
HPLPD2-26	24.25-26.50	2 (0.6)	1.4	40.5	40.9	41.3	30	66	1.37:1 (16.1)
HPLP2-26	24.25-26.50	2 (0.6)	1.4	40.7	41.1	41.5	30	66	1.37:1 (16.1)
HPD2-26	24.25-26.50	2 (0.6)	1.4	40.5	40.9	41.3	30	69	1.37:1 (16.1)
HPD3-26	24.25-26.50	3 (0.9)	1.0	44.0	44.4	44.8	30	72	1.37:1 (16.1)
HPD4-26	24.25-26.50	4 (1.2)	0.7	46.3	46.7	47.0	30	74	1.37:1 (16.1)

27.3-29.5 GHz (WR28)

Model Number	Frequency, GHz	Diameter ft. (m)	3dB BW degs	Gain, dBi			XPD dB	F/B Ratio dB	VSWR, Max (R.L., dB)
				Low	Mid	High			
High Performance - Plane Polarized									
HPCPE-28	27.3-29.5	1 (0.3)	2.2	35.8	36.1	36.3	30	64	1.37:1 (16.1)

27.3-31.3 GHz (WR28)

Model Number	Frequency, GHz	Diameter ft. (m)	3dB BW degs	Gain, dBi			XPD dB	F/B Ratio dB	VSWR, Max (R.L., dB)
				Low	Mid	High			
High Performance - Plane Polarized									
HPLP1-28	27.3-31.3	1 (0.3)	2.3	36.0	36.5	37.0	30	62	1.37:1 (16.1)
HP2-28	27.3-31.3	2 (0.6)	1.3	42.0	42.5	43.0	30	72	1.37:1 (16.1)
High Performance - Dual Polarized									
HPLPD1-28	27.3-31.3	1 (0.3)	2.3	35.8	36.3	36.8	30	62	1.37:1 (16.1)
HPD2-28	27.3-31.3	2 (0.6)	1.3	41.8	42.3	42.8	30	72	1.37:1 (16.1)

Radio Waves, Inc.

36 <http://www.radiowavesinc.com>

sales@radiowavesinc.com