

18 GHz High Performance Antenna

17.7 to 19.7 GHz High Performance Parabolic Antenna

Features

- Antenna diameters and weights:
 - 1' (30 cm).....17 lbs. (7.7 kg)
 - 1.5' (45 cm).....19 lbs. (8.6 kg)
 - 2' (60 cm).....27 lbs. (12.2 kg)
 - 3' (90 cm).....50 lbs. (22.5 kg)
 - 4' (120 cm).....85 lbs. (38.3 kg)
- HP models: high-performance, plane polarized
- HPD models: dual polarized
- IEC or EIA flanges available
- Direct mounting for RF units available
- Ease of installation: antennas shipped completely assembled, minimal mount required
- Planar radomes standard with high-performance model
- Rugged and lightweight cast aluminum mount with fine adjustment for both azimuth and elevation
- Compact size with innovative feed design
- Standard white; other colors and/or logos available on request
- Corrosive resistant: coated aluminum, hot dipped galvanized steel and stainless steel

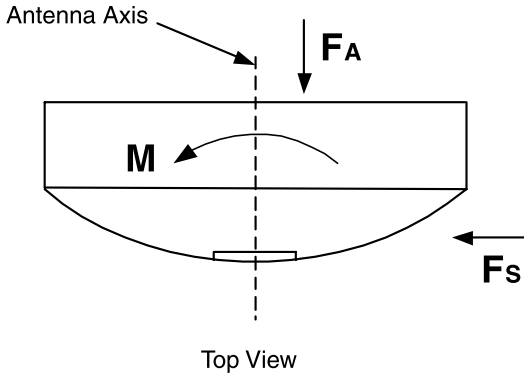


17.7 - 19.7 GHz Electrical Specifications (typical performance)

Model Number	Diameter ft (cm)	Gain, dBi			Beamwidth Degrees, 3dB	X Pol. Disc., dB	F/B Ratio, dB	VSWR Max. (R.L., dB)
		Low	Mid	High				
<i>Plane Polarized</i>								
HPLP1-18	1 (30)	33.5	34.0	34.4	3.0	30	53	1.4:1 (15.5)
HPLP1.5-18	1.5 (45)	35.7	36.2	36.7	2.5	30	58	1.4:1 (15.5)
HP2-18	2 (60)	38.2	38.6	39.0	2.0	30	66	1.4:1 (15.5)
HP3-18	3 (90)	41.6	42.0	42.4	1.3	30	69	1.4:1 (15.5)
HP4-18	4 (120)	44.1	44.5	44.9	1.0	30	72	1.4:1 (15.5)
<i>Dual Polarized</i>								
HPLPD1-18	1 (30)	33.3	33.8	34.2	3.0	30	53	1.4:1 (15.5)
HPLPD1.5-18	1.5 (45)	35.5	36.0	36.5	2.5	30	58	1.4:1 (15.5)
HPD2-18	2 (60)	38.0	38.4	38.8	2.0	30	66	1.4:1 (15.5)
HPD3-18	3 (90)	41.4	41.8	42.2	1.3	30	69	1.4:1 (15.5)
HPD4-18	4 (120)	43.8	44.3	44.7	1.0	30	72	1.4:1 (15.5)

SPECIFICATIONS

WINDLOAD SPECIFICATIONS



*Dimensions = Inches/cm

Antenna Windloading		2' (60 cm)		3' (90 cm)		4' (120 cm)	
Fs max	202 lbs. (905N)	Fs max	403 lbs. (1800N)	Fa max	737 lbs. (3290N)		
Fs max	100 lbs. (445N)	Fs max	200 lbs. (890N)	Fs max	365 lbs. (1630N)		
MT max	194 lbs. (260Nm)	MT max	344 lbs. (530Nm)	MT Max	784 lbs. (1055Nm)		
SP Series Windloading							
Without Radome		Without Radome		Without Radome			
Fa max	222 lbs. (988N)	Fa max	492 lbs. (2189N)	Fa max	855 lbs. (3803N)		
Fs max	14 lbs. (62N)	Fs max	40 lbs. (178N)	Fs max	45 lbs. (200N)		
MT max	225 lbs. (305Nm)	MT max	545 lbs. (732Nm)	MT Max	1120 lbs. (1500Nm)		
With Radome		With Radome		With Radome			
Fa max	122 lbs. (543N)	Fa max	271 lbs. (1206N)	Fa max	469 lbs. (2087N)		
Fs max	24 lbs. (107N)	Fs max	64 lbs. (285N)	Fs max	93 lbs. (414N)		
MT max	194 lbs. (260Nm)	MT max	394 lbs. (530Nm)	MT max	784 lbs. (1055Nm)		