PAR-SERIES STANDARD PARABOLIC ANTENNAS

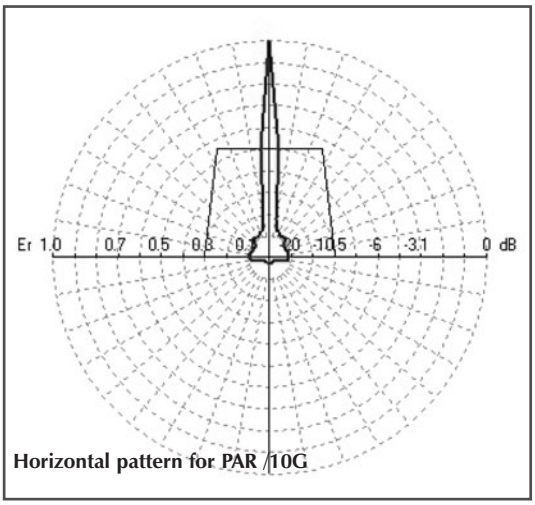
- **Generals.** The PAR Standard Parabolic Antennas series is widely used for terrestrial microwave communication systems where high front to back ratios and high directivity are not required. Each antenna is characterized by high gain, low VSWR and reduced cost.
- **Frequency bands.** The PAR Series parabolic antennas family is suitable for terrestrial microwave communication system operating in the 0.8 to 24.3 GHz frequency bands.
- **Broadcast applications.** The PAR Series antennas provide a cost-effective solution for digital or analog broadcast applications.
- **Easy installation.** The low total weight and the special mounting systems make easier the installation and reduce tower load.
- **Radomes.** Optional planar or moulded long life radomes are available for all PAR Series models. Radomes provide an excellent snow, ice, water shedding and reduce the wind load.
- **Antenna finish.** Special antenna colour is available to match the local surroundings.

R.F. Data:

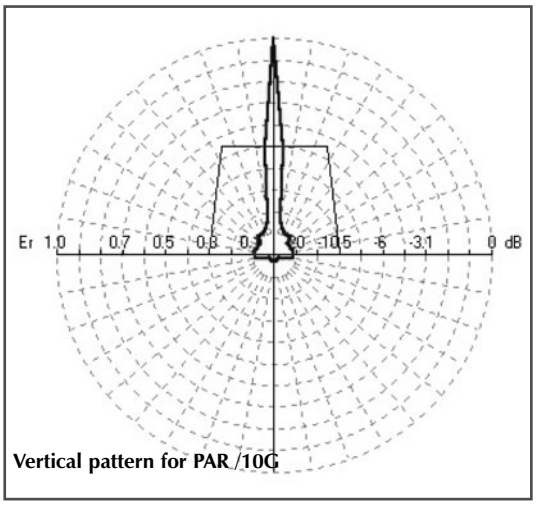
Available frequencies:	
/GHz	**0.8 ÷ 1 GHz - N connector**
/2G	**1.2 ÷ 2.7 GHz - N connector**
/6G	**5.4 ÷ 6.8 GHz – Rectangular waveguide flange**
/8G	**6.8 ÷ 9.9 GHz – Rectangular waveguide flange**
/10G	**10.0 ÷ 12.7 GHz – Rectangular waveguide flange**
/13G	**12.8 ÷ 15.0 GHz - Rectangular waveguide flange**
/17G	**16.7 ÷ 17.9 GHz - Rectangular waveguide flange**
/23G	**22.4 ÷ 24.3 GHz - Rectangular waveguide flange**

Fiberglass moulded radomes:	
RAD-F 06	**for PAR 06**
RAD-F 1	**for PAR 1.0**
RAD-F 1.2	**for PAR 1.2**

Planar radomes:	
RAD-P 1	**for PAR 1.0**
RAD-P 1.2	**for PAR 1.2**
RAD-P 1.5	**for PAR 1.5**
RAD-P 1.8	**for PAR 1.8**
RAD-P 2.4	**for PAR 2.4**



Horizontal pattern for PAR /10G



Vertical pattern for PAR /10G

NOTE: the patterns for the other models are available on request.

PAR 06

R.F. Data:

Frequency (Ghz)	1	1.7	2.4	8	10	12	14	17	23
Gain (dBi)	13.36	17.98	20.97	31.42	33.36	34.95	36.29	37.49	38.81
Radiation Angle (-3 dB)	35.35°	20.79°	14.72°	4.41°	3.53°	2.94°	2.52°	2.31°	2.19°

Mechanicals

Diameter	0.6 meters
Feeder adaptor diameter	65 mm flange
Materials	Painted aluminium
Mounted bracket	diameter 40/115 mm
Wind load	0.352

PAR 1.0

R.F. Data:

Frequency (Ghz)	1	1.7	2.4	8	10	12	14	17	23
Gain (dBi)	17.8	22.41	24.24	35.87	37.8	39.39	40.73	42.05	43.26
Radiation Angle (-3 dB)	21.21°	12.47°	8.83°	2.65°	2.12°	1.76°	1.51°	1.38°	1.23°

Mechanicals

Diameter	1.0 meters
Feeder adaptor diameter	65 mm flange
Materials	Painted aluminium
Mounted bracket	diameter 40/115 mm
Wind load	0.849

PAR 1.2

R.F. Data:

Frequency (Ghz)	1	1.7	2.4	8	10	12	14	17	23
Gain (dBi)	19.38	24	26.99	37.44	39.38	40.97	42.31	43.45	44.58
Radiation Angle (-3 dB)	17.67°	10.39°	7.36°	2.20°	1.76°	1.47°	1.26°	1.13°	1.03°

Mechanicals

Diameter	1.2 meters
Feeder adaptor diameter	100 mm flange
Materials	Painted aluminium
Mounted bracket	diameter 40/115 mm
Wind load	1.326

PAR 1.5

R.F. Data:

Frequency (Ghz)	1	1.7	2.4	8	10	12	14	17	23
Gain (dBi)	21.32	25.93	28.93	39.38	41.32	42.9	44.25	45.28	46.35
Radiation Angle (-3 dB)	14.14°	8.31°	5.89°	1.76°	1.41°	1.17°	1.01°	0.88°	0.76°

Mechanicals

Diameter	1.5 meters
Feeder adaptor diameter	100 mm flange
Materials	Painted aluminium
Mounted bracket	diameter 40/115 mm
Wind load	2.009

PAR 1.8

R.F. Data:

Frequency (Ghz)	1	1.7	2.4	8	10	12	14	17	23
Gain (dBi)	22.9	27.52	30.51	40.97	42.9	44.49	45.83	47.07	48.12
Radiation Angle (-3 dB)	11.78°	6.93°	4.90°	1.47°	1.17°	0.98°	0.84°	0.72°	0.61°

Mechanicals

Diameter	1.8 meters
Feeder adaptor diameter	100 mm flange
Materials	Painted aluminium
Mounted bracket	diameter 40/115 mm
Wind load	2.984