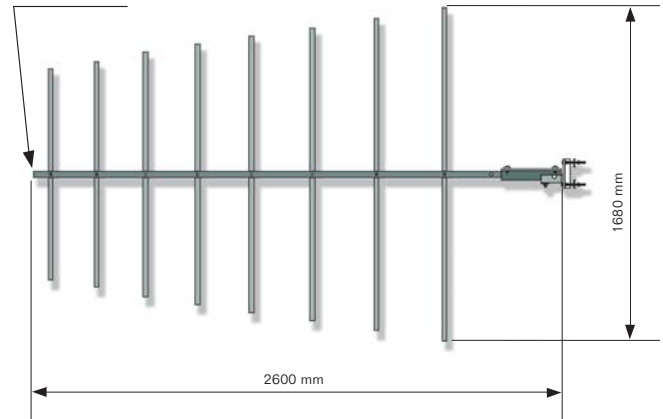


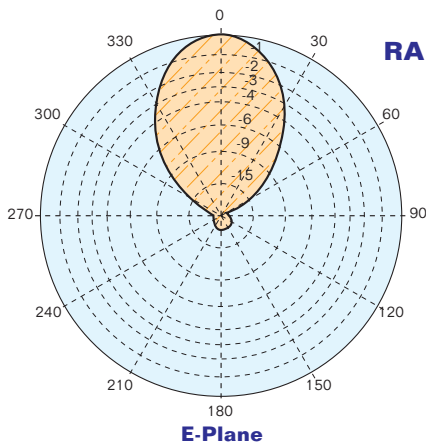
Models: LGPRD-LGPRD/I-LGPRD/S

- Band II
- Broadband 87.5÷108 MHz
- Demountable
- Vertical or Horizontal polarization

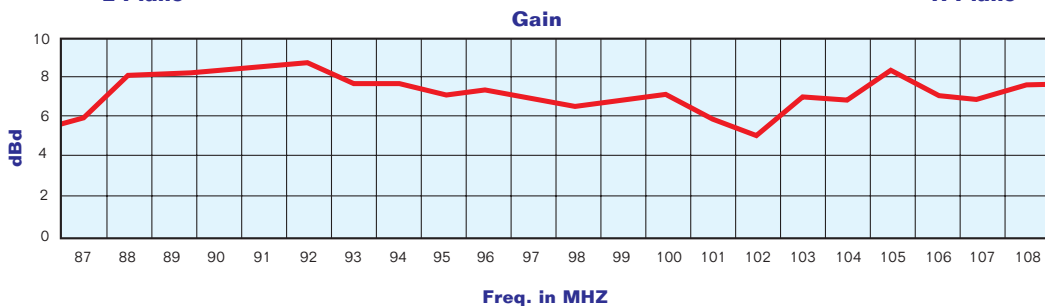
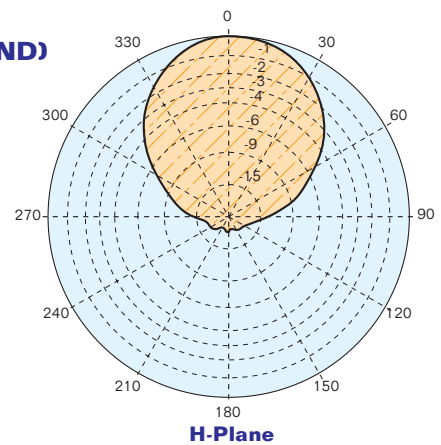


ELECTRICAL DATA	
Frequency range	87.5÷108 MHz
Impedance	50 Ohm
Connectors	N or 7/16" or 7/8" EIA
Max Power	800W (N) – 2KW (7/16") – 2.5KW (7/8" EIA)
VSWR	≤ 1.4:1
Polarization	Horizontal or Vertical
Gain	7.0 dB (referred to half-wave dipole)
Half power beam width	E plane ± 30° H plane ± 45°
Lightning protection	All metal parts DC grounded

MECHANICAL DATA	
Dimensions	2600x1680x150 mm
Weight	15.0 kg
Wind surface	0.27 m ²
Wind load	41 kg (wind speed at 160 km/h)
Max wind velocity	140 km/h.
Materials	LGPRD: Aluminium LGPRD/I: Stainless steel LGPRD/S: Welded version
Mounting	With special pipe clamps 50÷110 mm dia.



RADIATION PATTERN (MID BAND)



Models: LGPRD-LGPRD/I-LGPRD/S

Radiations systems with LGPRD yagi antenna

Directional pattern

ELECTRICAL DATA	
Frequency range	87.5+108 MHz
Impedance	50 Ohm
Connector	EIA flange according to system power rating
VSWR	≤ 1.4:1 Max
Polarization	Horizontal or Vertical
Gain	According to requirement
Horizontal pattern	Any type according to requirements
Vertical pattern	Null fill, beam tilt and special requirements to order
Other facilities	The antenna system can be supplied in split feed with two equal half antennas. Each half can accept full power

MECHANICAL DATA	
Height of array	Subject to number of bays (refer to table)
Total net weight	Refer to table
Wind load	Refer to table
Mounting hardware	Hot dip galvanized steel clamps
Shipping	As required

Number of bays	Dipole per bay	Gain ¹		Weight ² kg	Antenna height L m	Wind load (v=160 km/h) kg
		dB	times			
2	1	10.0	10.0	30	4.3	82.0
4	1	13.0	20.0	60	9.5	164.0
6	1	14.8	30.0	90	14.7	246.0
8	1	16.0	40.0	120	20.0	328.0
12	1	17.8	60.0	180	30.3	492.0

¹ Referred to a half wave dipole. Attenuation of connecting cables not taken into account.

² Without mounting hardware.

- Gain is provided for vertical polarization.
- If the antenna is side mounted, the supporting structure will have a slight effect on the radiation pattern and VSWR.
- Vertical tower space, wind load and weight numbers given are typical. Actual values vary with the specific installation. Contact us for more details of your installation.
- Gain will be reduced if null fill, beam tilt or special wavelength spacing is provided.
- Antenna radiation aperture is the distance from the centre of the top bay to the centre of the bottom bay.
- Five ft(1.6m) of pipe required above the top bay and below the bottom bay for to protect from pattern interference by other antennas.
- Antenna wind load is calculated for 100 Mph (160Km/h) per EIA-222-C standard.

