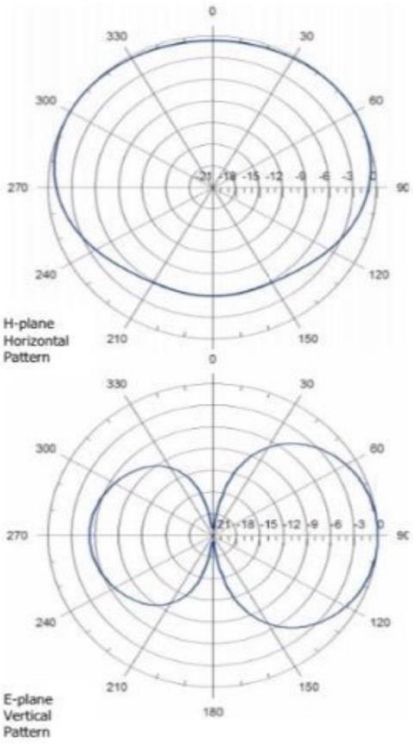
FMDP - Vertical Broadband Dipole

RADIO FM





Notes:

- *Radiation patterns and gain values at the table are including the effect of supporting pole*
- *Null fill, beam tilt, hamess & feeder losses NOT INCLUDED*
- *Wind load & weight figures without considering cables, splitters & hardware*

Electrical Specifications

Frequency Range	87.5 -108 MHz
Peak gain	0 dB (ref. □ / 2 dipole, free space) 1.75 dB (ref. □ / 2 dipole, with pole)
3 db beam width	E-plane:75º | H-plane: 220º
Polarization	Vertical
Impedance	50 Ohm
VSWR	≤ 1.3:1
Maximun power handling	3 kW
Connector type	DIN 7/16
Pressurization	Non pressurized

Mechanical & Environmental Specifications

Materials:	Dipole	Stainless steel
	Isolators	PTFE
Dimensions (W x D x H)		85 x 1000 x 1340 mm
Maximun wind speed		200 km/h
Wind load		165 N (@ 160 km /h)
Weight		9 kg
Clamp Type		To Ø 60 – 80 mm pipe
Vertical spacing		0,8 0,9 typical
Grounding		DC grounded
Temperature range		-40ºC to +80ºC
Humidity		100%

Antenna System Characteristics

Number of Bays	Number ant. Per bay	Peak gain (dbd)	Weight (kg)	Wind load (@160 km/h)	System height (mm)
1	1	1.8	10	0,17 kN	1340
2	1	4.8	20	0,34 kN	3949
4	1	7.8	40	0,68 kN	9166
6	1	9.5	60	1,02 kN	14383
8	1	10.8	80	1,36 kN	19601
10	1	11.8	100	1,70 kN	24821
12	1	12.6	120	2,04 kN	30039

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