



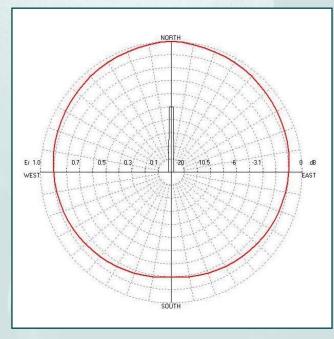
## I TECHNICAL CHARACTERISTICS

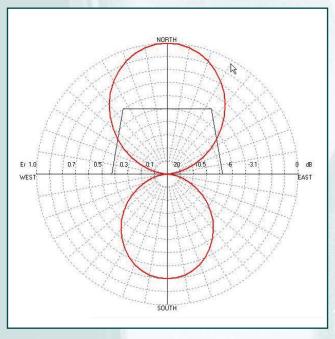
## RF DATA

Frequency Range	87.5 - 108.0 MHz
Bandwidth	Broadband
Polarization	Vertical
Connectors:	
P1/N	N female
P1/716	DIN 7/16"
P1/LC	LC
P1/78	EIA 7/8"
Maximum Power Handling Capability:	
P1/N	0.6 kW
P1/716	1.4 kW
P1/LC	1.6 kW
P1/78	3.5 kW
Gain (at mid band, ref. to λ/2 dipole)	2.15 dBd
VSWR (in the whole band)	< 1.3 :1
Impedance	50 Ω
Wind load (ref 150 Km/h):	7 L 7 L 7 L 7 L 7 L 7 L 7 L 7 L 7 L 7 L
Frontal	18 Kg
Lateral	26 Kg
Grounding	Via clamps
Vertical Beamwidth (at -3 dB, at mid band)	72°

## **MECHANICALS**

Materials:	
P1	Anodized Aluminium
PX1	Stainless Steel
Pole diameter	32 - 90 mm (others on request)
Dimensions (HxWxD)	1430x40x840 mm
Weight (with pole clamp):	
P1	4.2 kg
PX1	6.5 kg

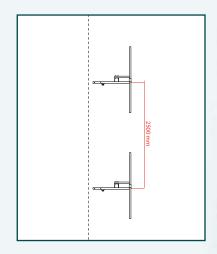




**Horizontal** pattern

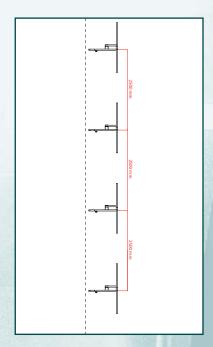
**Vertical pattern** 

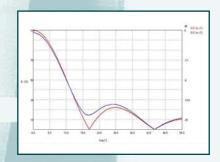
DIPOLES ARRANGEMENT

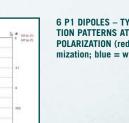


2 P1 DIPOLES – TYPICAL VERTICAL RADIA-TION PATTERNS AT MID-BAND IN VERTICAL POLARIZATION

DIPOLES ARRANGEMENT







6 P1 DIPOLES - TYPICAL VERTICAL RADIA-TION PATTERNS AT MID-BAND IN VERTICAL POLARIZATION (red = without null fill optimization; blue = with null fill optimization)

4 P1 DIPOLES - TYPICAL VERTICAL RADIA-TION PATTERNS AT MID-BAND IN VERTICAL

POLARIZATION (red = without null fill optimization; blue = with null fill optimization)

General arrays specifications

MODEL	NUMBER OF	MAXIMUM	GAIN	WEIGHT (KG)	VERTICAL
	ANTENNAS	POWER (W)	(dBd)	P1-PX1	DIMENSIONS (mt)
P1/N-2	2	1.200	+ 5.1	8.4 - 13.0	3.93
P1/N-3	3	1.800	+ 6.6	12.6 – 19.5	6.43
P1/N-4	4	2.400	+ 7.9	16.8 – 26.0	8.93
P1/N-6	6	3.600	+ 9.4	25.2 – 39.0	12.93
P1/N-8	8	4.800	+ 10.6	33.6 - 52.0	18.93
P1/716-2	2	2.800	+ 5.1	8.4 - 13.0	3.93
P1/716-3	3	4.200	+ 6.6	12.6 – 19.5	6.43
P1/716-4	4	5.600	+ 7.9	16.8 – 26.0	8.93
P1/716-6	6	8.400	+ 9.4	25.2 – 39.0	13.93
P1/716-8	8	11.200	+ 10.6	33.6 - 52.0	18.93
P1/LC-2	2	3.200	+ 5.1	8.4 - 13.0	3.93
P1/LC-3	3	4.800	+ 6.6	12.6 – 19.5	6.43
P1/LC-4	4	6.400	+ 7.9	16.8 – 26.0	8.93
P1/LC-6	6	9.600	+ 9.4	25.2 – 39.0	13.93
P1/LC-8	8	12.800	+ 10.6	33.6 - 52.0	18.93
P1/78-2	2	7.000	+ 5.1	8.4 - 13.0	3.93
P1/78-3	3	10.500	+ 6.6	12.6 – 19.5	6.43
P1/78-4	4	14.000	+ 7.9	16.8 – 26.0	8.93
P1/78-6	6	21.000	+ 9.4	25.2 – 39.0	13.93
P1/78-8	8	28.000	+ 10.6	33.6 - 52.0	18.93



## DB Elettronica Telecomunicazioni SpA

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