OMNI 900 6 dBi

Base Station GSM 900 Antenna

Installation Manual

DESCRIPTION

Base station antenna conceived for GSM 900 MHz system. The radiant element is made on PCB and raw brass to guarantee high power and low losses. It is protected by fibrelgass tube and supplied with a stainless steel bracket for an easy installation.

SPECIFICATIONS

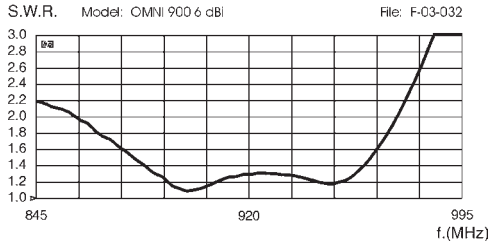
Electrical Data

Type	:	3 x 1/2 λ Colinear Dipole Array
Frequency Range	:	880-960 MHz for GSM 900 MHz system
Impedance	:	50 Ω Unbalanced
3 dB Beamwidth Horizontal	:	H-plane 18°
Radiation Angle	:	5°
Polarization	:	Linear Vertical
Gain	:	3.9 dBd - 6 dBi
V.S.W.R. in Bandwidth	:	≤ 1.6:1
Max Power	:	20 Watts (CW) @ 30° C
Grounding protection	:	All metal part are DC-grounded, the inner conductor shows a DC-short
Connector type	:	SMA-male, other type on request
Cable lenght / type	:	5 m / white RG 58

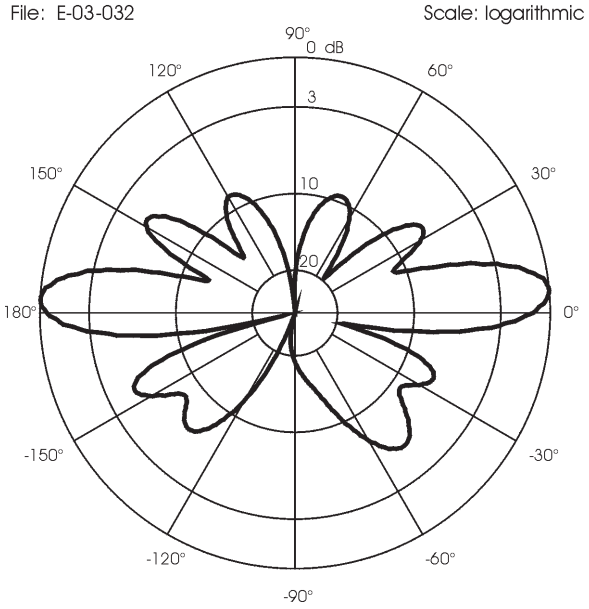
Mechanical Data

Materials	:	Fiberglass, Chromed brass, PCB
Wind Load / Resistance	:	35 N @ 150 Km/h / 120 Km/h
Wind Surface	:	0.03 m^2
Height (approx.)	:	1045 mm
Weight (approx.)	:	950 gr
Operating Temperature	:	-20° C to +80° C

TYPICAL S.W.R. RESPONSE



TYPICAL RADIATION PATTERN in E-plane at 920 MHz



TYPICAL GAIN DIAGRAM vs FREQUENCY