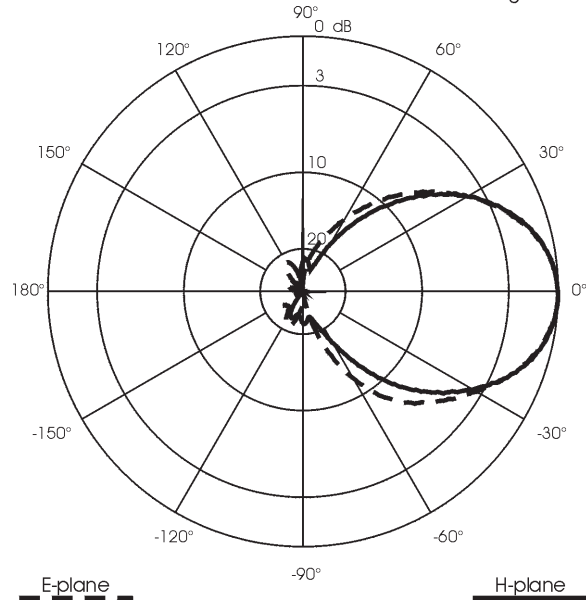


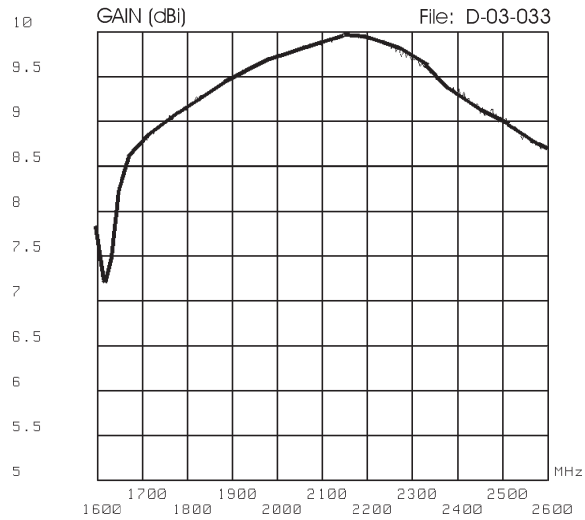
TYPICAL RADIATION PATTERN at 2045 MHz

File: E-03-033

Scale: logarithmic



TYPICAL GAIN DIAGRAM vs FREQUENCY



Directional 1.7-2.5 GHz
SPB - 1.7 ÷ 2.5 - 11
Base Station Multi-Band Antenna (DCS, DECT, UMTS, WLAN)



DESCRIPTION

Multi-band base station antenna working on 1.7-2.5 GHz conceived for DCS 1.8 GHz, PCS 1.9GHz, DECT, UMTS and WLAN systems. The radiant element is made on a PCB and it is protected by a UV-stabilized radome to get the best performance for long periods of time. It's supplied with an aluminium bracket for an easy installation on the mast.

SPECIFICATIONS

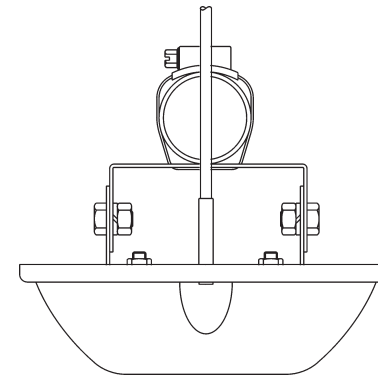
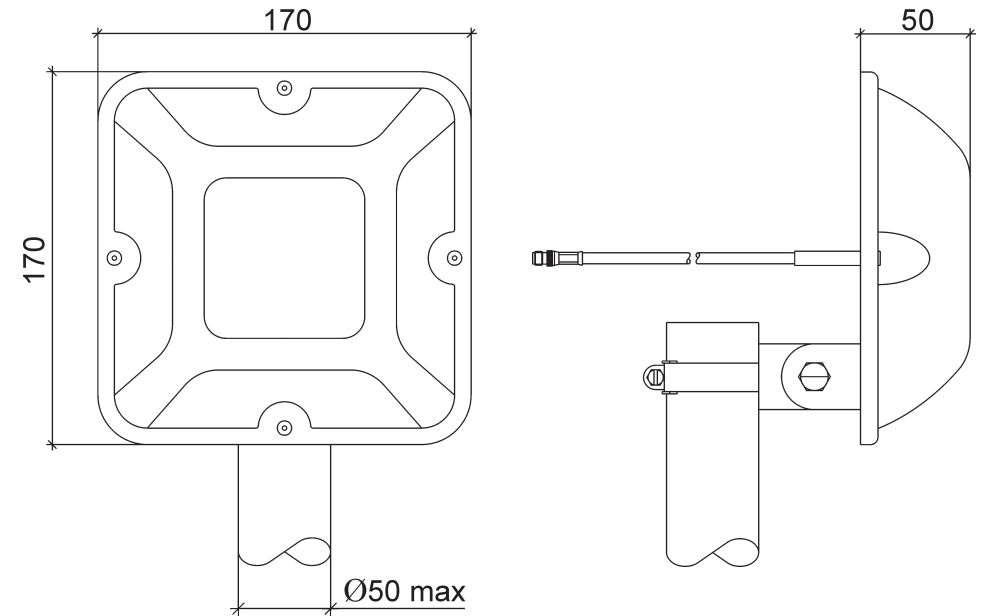
Electrical Data

Type	: Planar Reflector
Frequency Range	: 1700-2500 MHz
Impedance	: 50 Ω Unbalanced
Polarization	: Linear Vertical
Gain	: 10 dBi
3 dB Beamwidth Vertical	: E-plane 53° at 2045 MHz
3 dB Beamwidth Horizontal	: H-plane 54° at 2045 MHz
Downtilt	: 0°
Front to back ratio	: ≥ 20 dB
S.W.R. in Bandwidth	: $\leq 1.5:1$ from 1.7 to 2.17 GHz; $\leq 2.0:1$ from 2.17 to 2.5 GHz
Max Power	: 20 Watts (CW) at 50° C
Feed System / Position	: Direct DC-ground / Center
Cable lenght / Type	: 30 cm, other length on request / RG 58 C/U or CO 100
Connector type	: SMA-male, other type on request

Mechanical Data

Housing Materials	: PCB, Aluminium, Brass
Radome Material	: White ABS UV Stabilized
Wind Load / Resistance	: 60 N at 150 Km/h / 180 Km/h
Wind Surface	: 0.03 m ²
Dimensions (approx.)	: 170 x 170 x 50 mm without bracket
Weight (approx.)	: 500 gr
Operating Temperature	: -20° C to 80° C
Mounting Mast	: \varnothing 35-50 mm

MOUNTING INSTRUCTIONS



Tilting bracket system

TYPICAL S.W.R. RESPONSE

