



All Band GSM Omnidirectional Antenna

Operating Frequency 860-980MHz & 1710-2170MHz

Product code: Product Code OMNI-A0121



This medium gain omnidirectional antenna covers the GSM 900 and GSM1800 / UMTS bands. Its configuration is suitable for various GSM communications systems including 3G/HSPA.

Features:

- Broadband.
- Covers most international GSM bands.
- Robust and weatherproof

Application areas:

This antenna provides communications capabilities for the following:

Standard	Frequency (MHz)
GSM900	880 - 960
GSM 1800 / PCS/ PCN	1710 - 1880
DECT	1880 - 1900
PHS Japan, Taiwan and China only	1895 - 1918
GSM "GSM1900" USA and Canada only	1850 – 1990
UMTS	1900 - 2170



Specifications:

Product Code:

OMNI-A0121

Features

8 m HDF195 with SMA(m) connector, wall mount anchor

Electrical:

Frequency (MHz)

860-980

1710-2170

Gain (max)*

2.8 dBi (+/- 0.5 dB)

5 dBi (+/- 0.5 dB)

Gain (min over the band)*

0 dBi (+/- 0.5 dB)

0 dBi (+/- 0.5 dB)

VSWR

< 2.5:1

<2.5:1

E-plane 3 dB beamwidth

40° (± 5°)

25° (± 5°)

H-plane 3 dB beamwidth

360°

H-Plane Ripple (max)

4 dB

Feed power handling

10 W

Nominal input impedance

50 Ohm

Polarisation

Linear

Environmental:

Wind Survival

160 km/h

Temperature Range (Operating)

- 20° C to +70° C

Shock

40G at 10 msec

Thermal Shock

-20°C to +70°C:10 cycles

Water Ingress Rating

IP65 (NEMA 4X)

Mechanical:

Dimensions (l x w x d)

550mm x 50mm x 50 mm

Weight

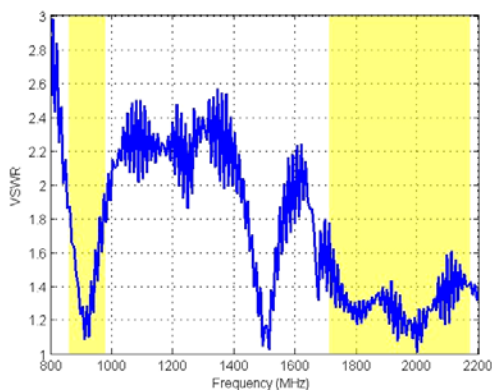
0.3 kg

Mounting

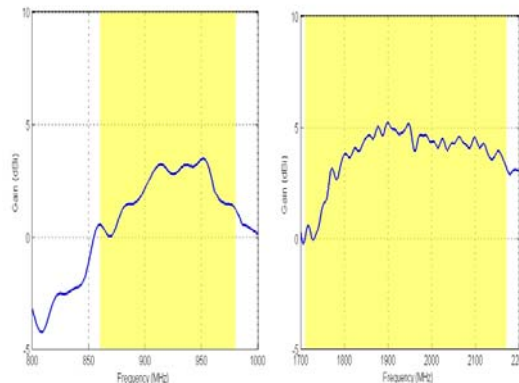
Wall Mount Anchors

*Measured at the antenna

VSWR and Gain Pattern:

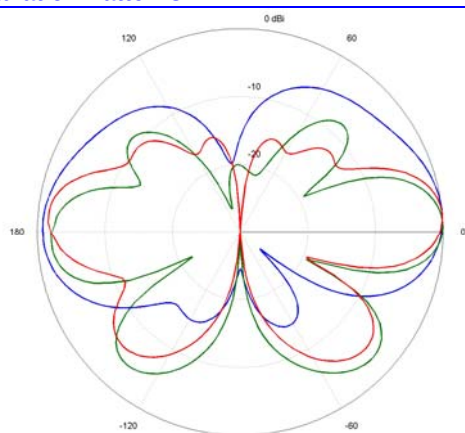


VSWR (at end of 8m Cable)

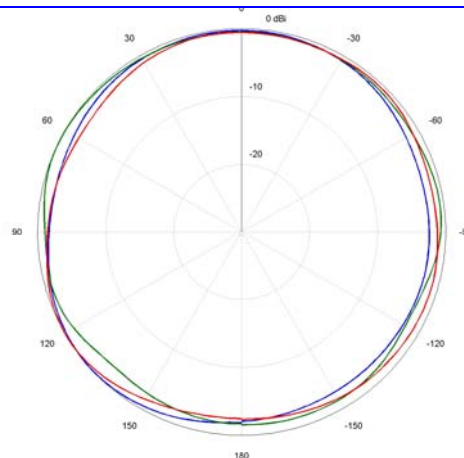


Gain (Measured at Antenna)

Radiation Patterns



E-Plane



H-Plane

Legend: -935MHz -1861MHz -2110MHz



Mechanical Drawings

