

Tri-Band GSM Antenna

VERSION: 1.2

GSM 850 (869 – 894 MHz)
GSM 1800 (1805 – 1880 MHz)
GSM 1900 (1930 -1990 MHz)
Product Code: OMNI-A0115



SPECIFICATIONS:

Electrical:	
Frequency range	869 – 894 MHz (GSM 850) 1805 – 1880 MHz (GSM 1800) 1930 – 1990 MHz (GSM 1900)
VSWR	< 2.5:1
Nominal input impedance	50 Ω
Connector	N-type female
Feed power handling	50 W
Gain (typical)	4 dBi (GSM 850) 5.5 dBi (GSM 1800) 5.5 dBi (GSM 1900)
H-plane 3 dB beamwidth	360°
Polarisation	vertical
Mechanical:	
Dimensions (l x d)	650 mm x 135 mm
Weight	750 g
Mounting method	NATO flange 4 and 6 holes
Environmental: designed to meet the following specifications	
Wind survival	160 km/h
Temperature (operational)	- 20 °C to +70 °C
Water ingress rating	IP 65 (NEMA 4X)

PRODUCT FEATURES:

- 50 W continuous power handling
- Gain over 5 dBi (1805 to 1990 MHz)
- Self-contained balanced antenna, no groundplane required
- Spring-mounted whip
- Omni-directional H-plane (azimuth) pattern

APPLICATIONS:

- RCIED signal suppression
- VIP protection
- Convoy protection

PRODUCT DESCRIPTION:

The OMNI-A0115 is a tri-band omni-directional GSM Antenna that has been designed to be used in high-powered transmit applications to suppress signals in applications like convoy protection and for RCIED. The design of this antenna allows it to bend up to 70°.

The OMNI-A0115 has an omni-directional azimuth pattern with a low level of ripple to ensure all-round protection and an elevation pattern that shows no pattern break-up. This antenna is rated for 50 W indefinite continuous duty power handling.

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GSM 1800 (1805 – 1880 MHz)

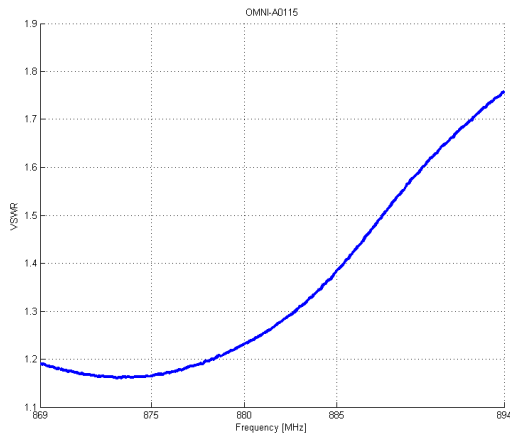
GSM 1900 (1930 -1990 MHz)

Product Code: OMNI-A0115

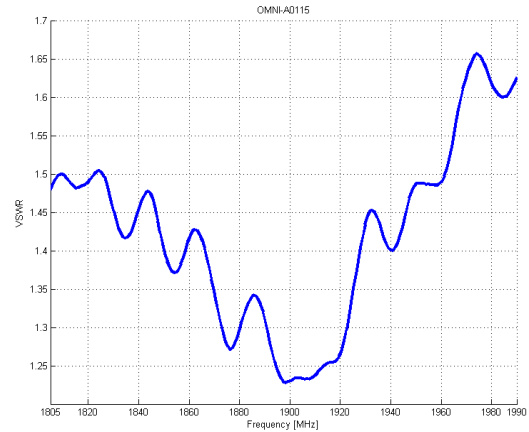
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VSWR:

GSM 850:

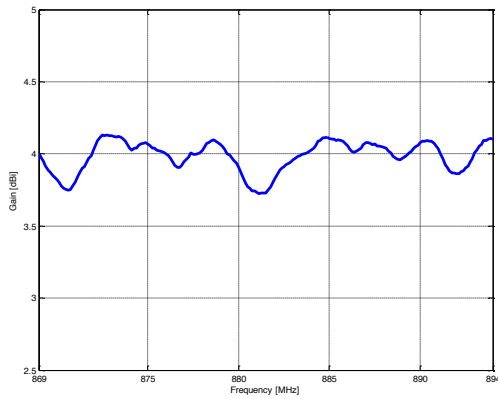


GSM 1800/1900:

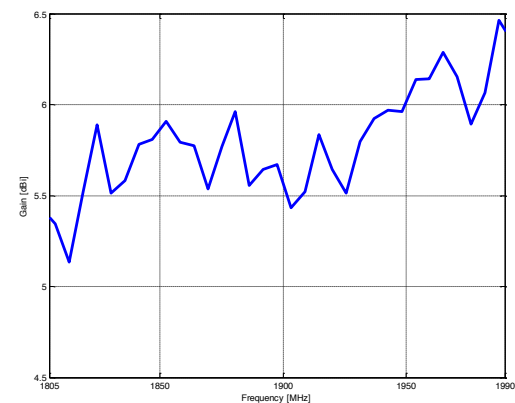


GAIN (dBi in free space):

GSM 850:



GSM 1800/1900:



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Cyntony Corporation
195 Follen Road
Lexington, Massachusetts
sales@cyntony.com
781-430-0675



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