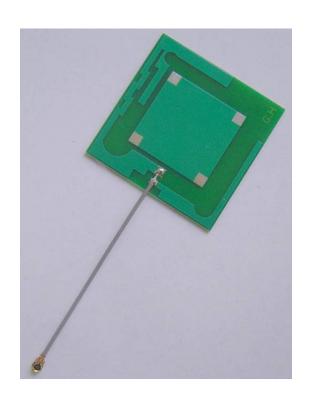


GSM Penta Band Antenna

ANT-PCB4242

Features

- 800/900/1800/1900/2100MHz
- Omni Directional 1/2 Wave
- Miniature 42 x 42 x 1mm
- VSWR < 3.0
- RG178 Coax 50Ω Impedance
- 2-3dBi Gain (nominal)
- Vertical Polarization
- Admitted Radiation Power 1W
- iPex/UFL Connector
- Operating temp -40 to +70°C



Applications

- Embedded GSM Systems
- For World-wide Use

Ordering Information

Part Number	Description
ANT-PCB4242-FL	Miniature PCB Penta Band Antenna

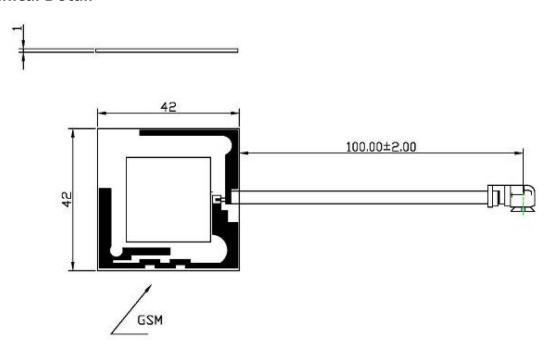




ANT-PCB4242



Mechanical Detail



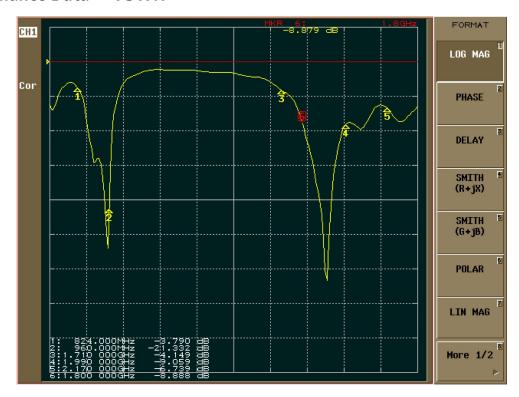
Performance Data — TEST VSWR



ANT-PCB4242



Performance Data — VSWR

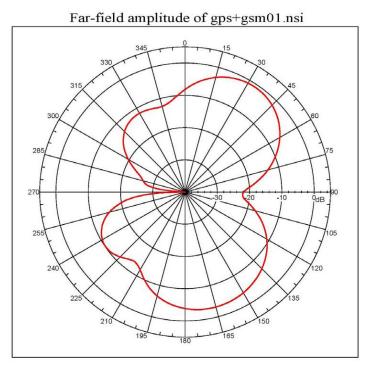


Performance Data — RETURN LOSS



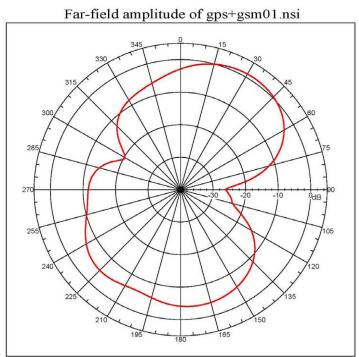


Performance Data—Smith Chart @ 880MHz



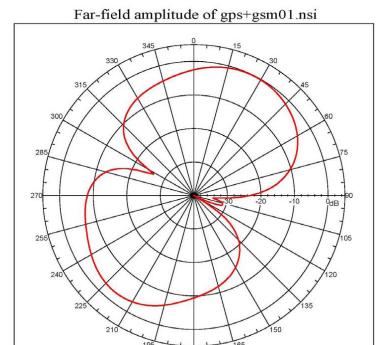
Far-field amplitude, Eprincipal: Linear, Tau * 0.000 deg
Gaim = -0.93736 dbl
Max Tar-field (plobal) = -34.95309 dB, Max far-field (plot) =
Max Tar-field (plobal) = -34.95309 dB, Max far-field (plot) =
Max Tar-field (plot) = -34.95309 dB, Max far-field (plot) =
Max Tar-field (plot) = -34.95309 dB, Max far-field (plot) =
Mornalization: Refecence, Network offset = 0.000 dB
Mornalization: Refecence, Network of 1.000 dB
Mornalization: National offset of 1.000 dB
Mornalization of

Performance Data—Smith Chart @ 920MHz



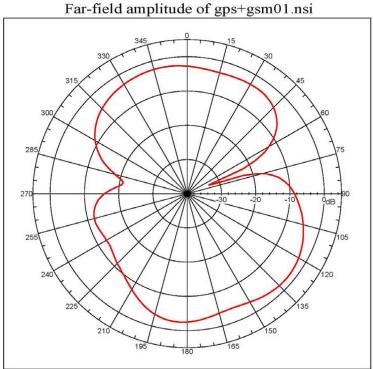


Performance Data—Smith Chart @ 960MHz



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gaim = -0.12529 dB1
Max far-field (global) = -35.22531 dB, Max far-field (plot) =
Max far-field (global) = -35.22531 dB, Max far-field (plot) =
Max far-field (global) = -35.22531 dB, Max far-field (plot) =
Moraelization: Reference, Network offset = 0.000 dB
Hypeak at: 208 0.000 deg, Vpeak at: 0.000 deg
Flot centering: Ga
MAX 1000 deg, Vpeak at: 0.000 deg
Flot centering: Ga
MAX 1000 deg, Vpeak at: 0.000 deg
Flot centering: Ga
MAX 1000 deg, Max 1000 deg, Max 1000 deg
M

Performance Data—Smith Chart @ 1710MHz

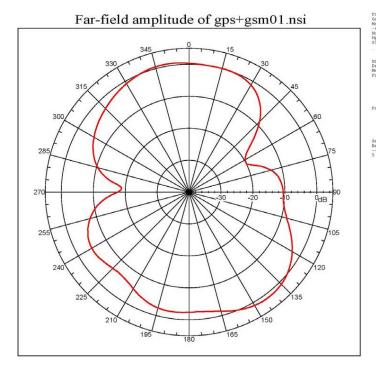


Far-field emplitude principal: Linear, Tau = 0.000 deg dain = 1.8908 db.

Mass far-field (global) = -41.01911 db, Max far-field (plot) = -41.01913 db Bornalization: December of deg, Vpeak at: 0.000 db Policy of the Common of t



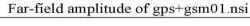
Performance Data—Smith Chart @ 1785MHz

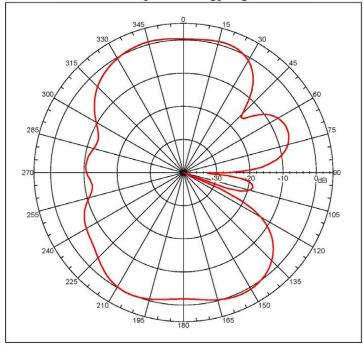


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 1.3446 dbi
Max Tar-field (global) = -40.52198 dB, Max far-field (plot) =
Max Tar-field (global) = -40.52198 dB, Max far-field (plot) =
Max Tar-field (global) = -40.52198 dB, Max far-field (plot) =
Max Tar-field (global) = -40.52198 dB, Max far-field (plot) =
Mormalization: Reference, Network offset = 0.000 dB
Plot centering: Ca

National Call (global) = -40.52198 dB, Max far-field (global) =
Max far-field (global) = -40.52198 dB, Filetyne: NaI-97
Far-field (global) = -4

Performance Data—Smith Chart @ 1850MHz

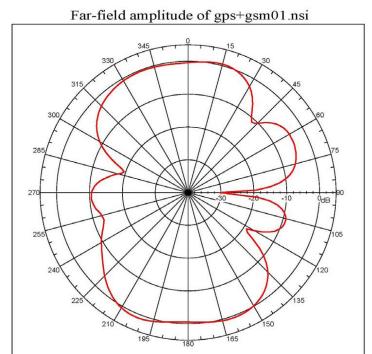




Star-field smplitude, Eprincipal; Linear, Tau = 0.000 deg Smin = 0.2940 des Smin = 0

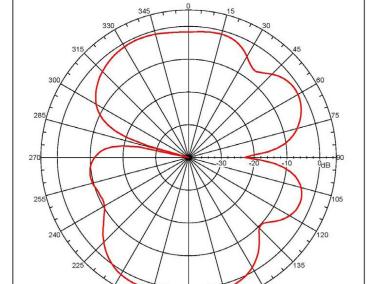


Performance Data—Smith Chart @ 1880MHz



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 1.1229 dis Max far-field (plobal) = -41.25224 dB, Max far-field (plot) =
Max far-field (global) = -41.25224 dB, Max far-field (plot) =
Max far-field (global) = -41.25224 dB, Max far-field (plot) =
Moraeliation: Reference, Network offset = 0.000 dB
Hock activation: Reference, Network offset = 0.000 dB
Hock activation: Reference, Network of deg
Flot centering: On
MAXILORO V4.0.116, Filmame::C\Documents and Settings\Administrator\Decktop\Linearing: Tage of the Composition of the

Performance Data—Smith Chart @ 1920MHz



Far-field amplitude of gps+gsm01.nsi

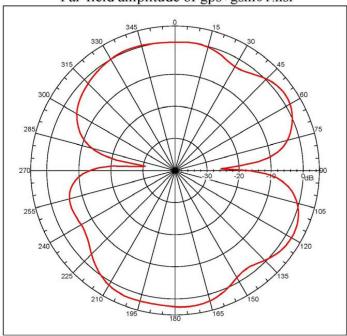
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Goaln = 1.8702 dbl

Max far-field (global) = -42.12482 db, Max far-field (plot) db, Max far-



Performance Data—Smith Chart @ 1990MHz





r-field smplitude, Eprincipal: Linear, Tau = 0.000 deg
in = 2.02109 (dobal) = -42.02542 dB, Max far-field (plota) = 4.02100 (plobal) = -42.02542 dB, Max far-field (plot) = 4.02100 (plota) = -42.02542 dB, Max far-field (plot) = 4.02100 (plota) = -42.02542 dB, Max far-field (plot) = 4.0210 (plota) = 4.0210 (

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Specifies certain limits for hazardous substances.

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Waste Batteries and Accumulators

Directive 2006/66/EC

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Environment Agency producer registration number: WEE/JB0104WV.

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