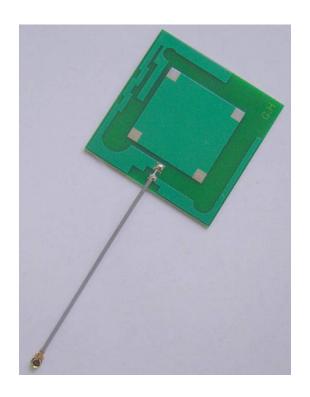


GSM Penta Band Antenna

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

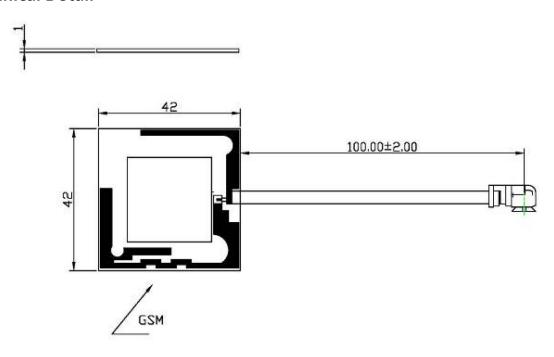




ANT-PCB4242



Mechanical Detail



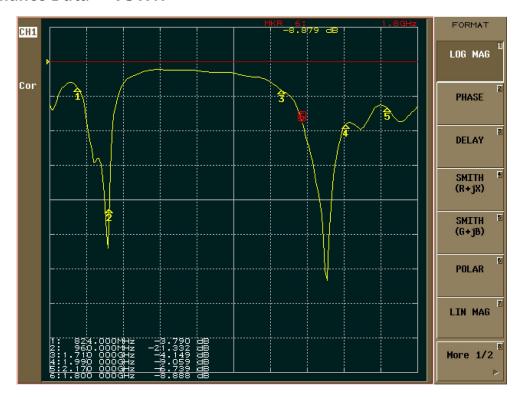
Performance Data — TEST VSWR



ANT-PCB4242



Performance Data — VSWR

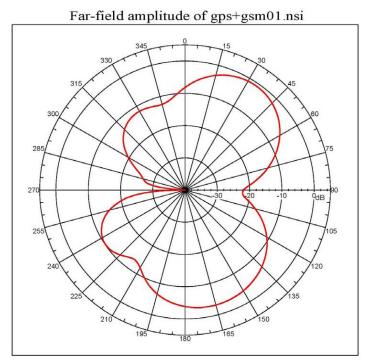


Performance Data — RETURN LOSS



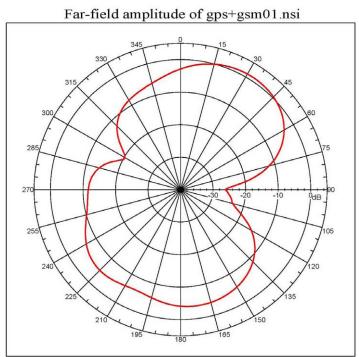


Performance Data—Smith Chart @ 880MHz



Far-field amplitude, Eprincipal: Linear, Tau * 0.000 deg
Goim * -0.93736 dil
Wax far-field (global) = -34.95309 dB, Max far-field (plot) =
Max far-field (global) = -34.95309 dB, Max far-field (plot) =
Max far-field (global) = -34.95309 dB, Max far-field (plot) =
Mormalization: Eprincipal (global) = -3.060 dB
Hepsk att 214.000 deg, Vpeak att 0.000 deg
Flot centering: Ga
Hazzono v4.0.116, Filename:C:\Documents and Settings\Administrator\Desktop

Performance Data—Smith Chart @ 920MHz

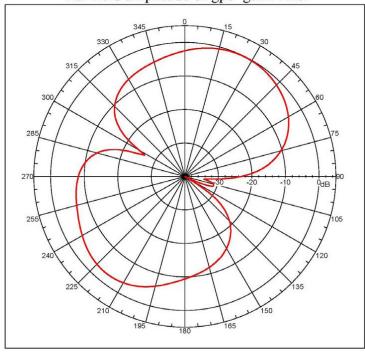


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Onin = 1.08371 dm;
Wax far-field (global) = -33.66037 dm, Max far-field (plot) =
-33.66056 dm
-33.66056 dm
Hardel (global) = -33.66037 dm, Max far-field (plot) =
-33.66056 dm
Hardel (global) = -33.66037 dm, Max far-field (plot) =
-33.66056 dm
Head at 212.000 deg, Vpeak at 0.000 deg
Flot centering: On
Hardel (global) = -3.000 deg
Flot (global) = -3.000 deg
-6.000 deg
-6.000 deg
Hardel (global) = -3.000 deg
Flot (global) = -3.000 deg
Flot



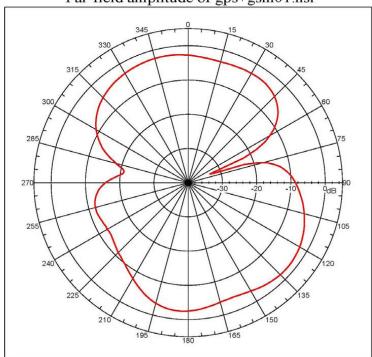
Performance Data—Smith Chart @ 960MHz





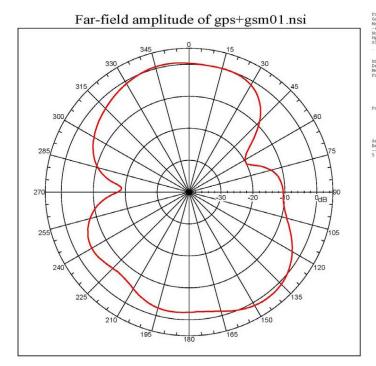
Performance Data—Smith Chart @ 1710MHz

Far-field amplitude of gps+gsm01.nsi





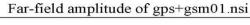
Performance Data—Smith Chart @ 1785MHz

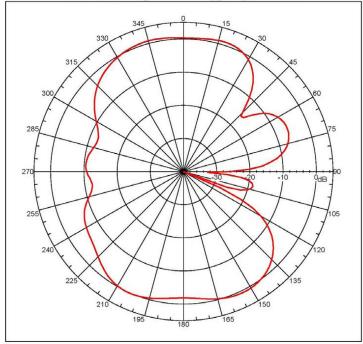


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 1.3446 dbi
Max Tar-field (global) = -40.52198 dB, Max far-field (plot) =
Max Tar-field (global) = -40.52198 dB, Max far-field (plot) =
Max Tar-field (global) = -40.52198 dB, Max far-field (plot) =
Max Tar-field (global) = -40.52198 dB, Max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

National Carlos (global)
N

Performance Data—Smith Chart @ 1850MHz

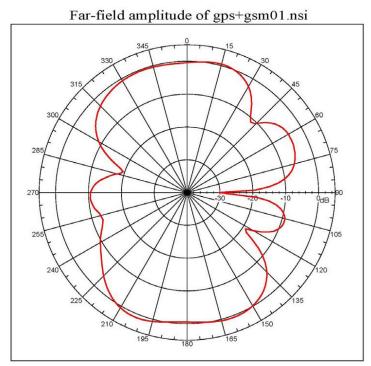




The field smplitude, Eprincipal: Linear, Tau = 0.000 deg Calla = 0.7945 del Mar Sar-field (global) = -41.31947 del Max far-field del Max f

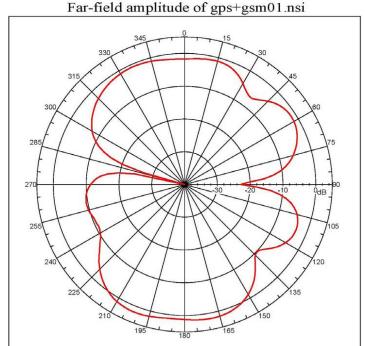


Performance Data—Smith Chart @ 1880MHz



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Osin = 1.12250 dis
Osin = 1.12250 dis
Nax far-field (global) = -41.25224 dB, Max far-field (plot) =
Max far-field (global) = -41.25224 dB, Max far-field (plot) =
Mormalization: Enforcement, Network offset = 0.000 dB
Hepeak at 22.000 deg, Vpeak at: 0.000 deg
Flot centering: On
MAIJ2000 v4.0.116, Filename:C:\Documents and Settings\Administrator\Decktop\u00e4blillypergmollon:
Mosaurcement date/time: 11/26/2009 8:04:08 BM, Filetype: M31-97
Far-field Cut Raijysis:
3. db beam width: Not Found
1-6. db beam width: Not Found
1-7. db beam width: Not Found
1-8. db beam width: Not Fou

Performance Data—Smith Chart @ 1920MHz

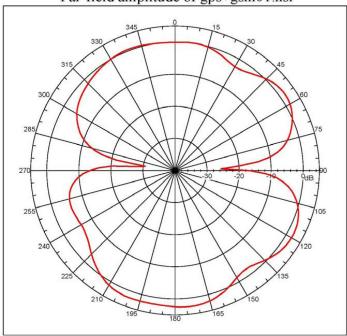


Far-field amplitude. Drincipal: Linear, Tau = 0.000 deg Caim = 1.80702 dbi Mast far-field (global) = -42.12482 db, Mast far-field (global) = -42.000 deg Vyeak at: 22.000 deg, Vyeak at: 0.000 deg Stitings\Administrator\Decktop\Lambda{chieldone} = 11.72472000 8:04400 PM, Filetype: N91-97 Far-field dur Analysis db, Mast far-field dater\Lambda{chieldone} = 11.72472000 8:04400 PM, Filetype: N91-97 Far-field discherible to Found -0.000 beam width: Not Found Right Sidelobe: -11.39 db at -99.53 deg Far-field display setup \Decktop\Lambda{chieldone} = 11.39 db at -99.53 deg Far-field display setup \Decktop\Lambda{chieldone} = 10.000 deg \Decktop\Lambda{chieldone} = 10.00001 deg, \Deck



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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Meets the following EC Directives:

DO NOT

Discard with normal waste, please recycle.

ROHS Directive 2002/95/EC

Specifies certain limits for hazardous substances.

WEEE Directive 2002/96/EC

Waste electrical & electronic equipment. This product must be disposed of through a licensed WEEE collection point. RF Solutions Ltd., fulfils its WEEE obligations by membership of an approved compliance scheme.

Waste Batteries and Accumulators

Directive 2006/66/EC

Where batteries are fitted, before recycling the product, the batteries must be removed and disposed of at a licensed collection point.

Environment Agency producer registration number: WEE/JB0104WV.

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