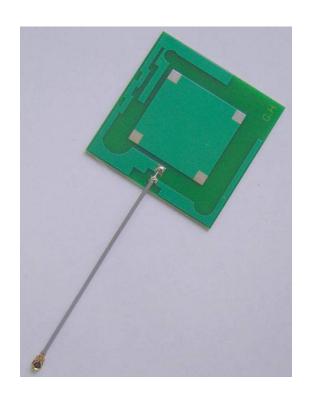


GSM Penta Band Antenna

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

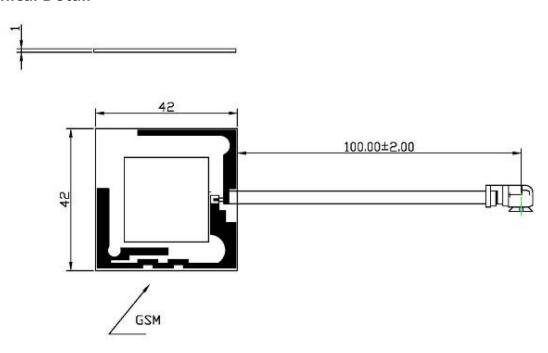




ANT-PCB4242



Mechanical Detail



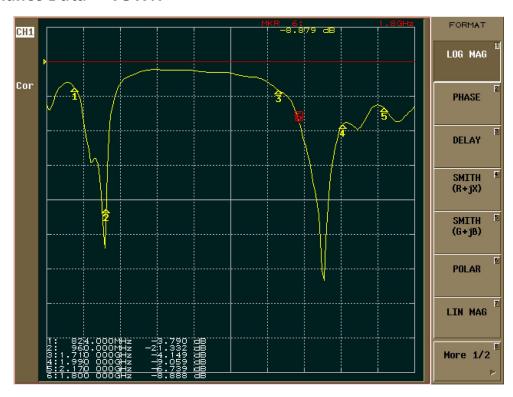
Performance Data — TEST VSWR



ANT-PCB4242



Performance Data — VSWR

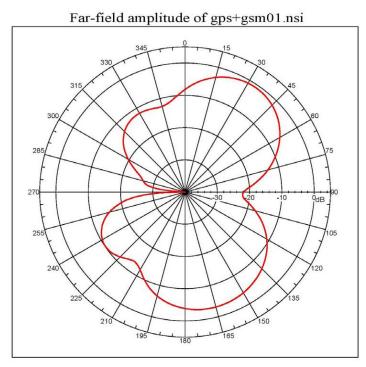


Performance Data — RETURN LOSS



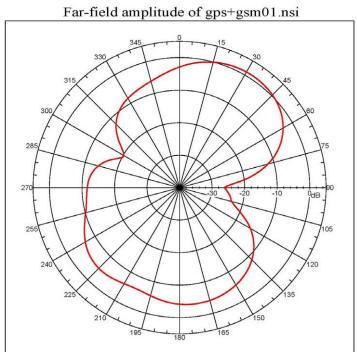


Performance Data—Smith Chart @ 880MHz



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) =
Mormalization: Refecence, Network offset = 0.000 dB
Mormalization: Refecence, Network of 1.000 dB
Mormalization: Refecence, Network of 1.000 dB
Mormalization: Refecence, Network of 1.000 dB
Mormalization: Reference (Note: Note: Not

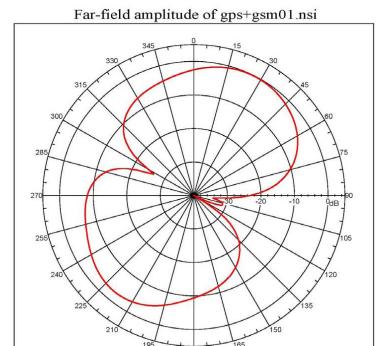
Performance Data—Smith Chart @ 920MHz



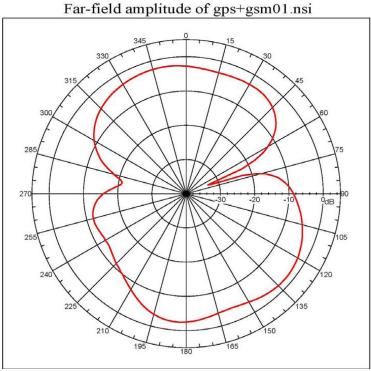
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Onin = 1.08371 dm;
Wax far-field (global) = -33.66037 dm, Max far-field (plot) =
-33.66056 dm
-33.66056 dm
Hardel (global) = -33.66037 dm, Max far-field (plot) =
-33.66056 dm
Hardel (global) = -33.66037 dm, Max far-field (plot) =
-33.66056 dm
Head 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



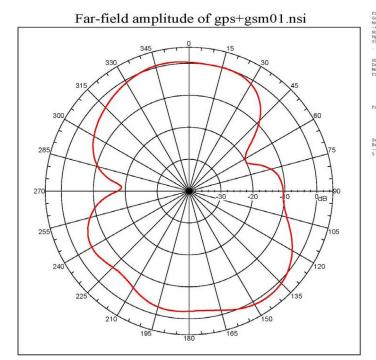
Far-field emplitude, Sprincipal: Linear, Tau = 0.000 deg dain = 1.89508 db.

Mars far-field (global) = -41.01911 db, Max far-field (plot) = -41.01913 db.

Mornalization: Defecence, Network offser = 0.000 db World of the Control of



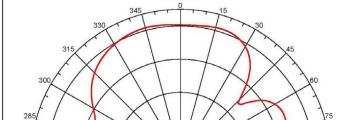
Performance Data—Smith Chart @ 1785MHz



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

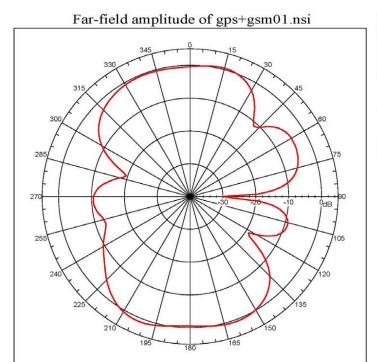


Far-field amplitude of gps+gsm01.nsi

Manual Ma

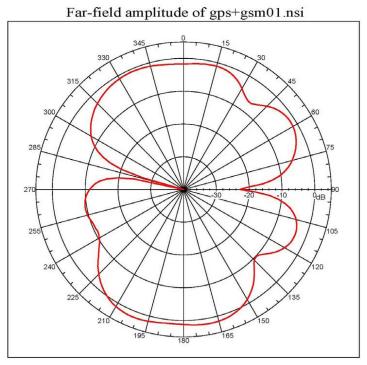


Performance Data—Smith Chart @ 1880MHz



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 at 12.20.200 deg, Vpeak at: 0.000 deg
Flot centering: On
MAILTON V4.0.116, Filmane::C\Documents and Settings\Administrator\Decktop\Linearity = 1.000 deg
Flot centering: On
MAILTON V4.0.116, Filmane:C\Documents and Settings\Administrator\Decktop\Linearity = 1.000
MAILTON V4.0.116, Filmane:C\Documents and Settings\Administrator\Decktop\Decktop\Linearity = 1.000
MAILTON V4.0.116, Filmane:C\Documents and Settings\Administrator\Decktop\Deckt

Performance Data—Smith Chart @ 1920MHz

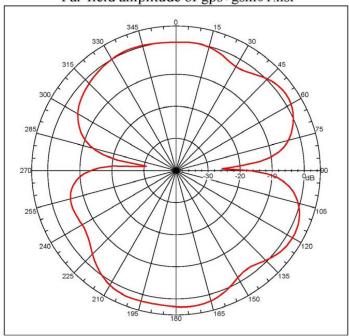


Fac-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Goain = 1.8002 dbi
Max far-field (global) = -42.12482 dB, Max far-field (plot) =
-42.12485 dB
Max far-field (global) = -42.12482 dB, Max far-field (plot) =
-42.12485 dB
Max far-field (global) = -42.12482 dB, Max far-field (plot) =
-42.12485 dB
Head at: 22.000 deg, Ypeak at: 0.000 deg
Hjeak at: 22.000 deg, Ypeak at: 0.000 dB
Hjeak at: 22.000 deg, Ypeak at: 0.000 dB
Hjeak at: 22.000 deg, Ypeak at: 0.000 dB
Hjeak dat: 22.000 deg, Ypeak at: 0.000 dB
Maxucsent datch Line: 11.72672009 8:04:00 FM, Filetype: N91-97
Face you value: -3.464 dB
-3. db beam width: Not Tound
-5. db beam width: Not Tound
-6. db beam width: Not Tound
-7. db beam width: Not Tound
-8. db beam width: Not Tound
-9. db beam width: Not Tound



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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Directive 2006/66/EC

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