GSM Penta Band Antenna



ANT-PCB4242

Features

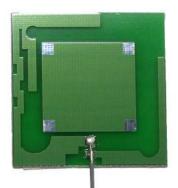
- 800/900/1800/1900/2100MHz
- Omni Directional 1/2 Wave
- Miniature 42 x 42 x 1mm
- VSWR < 3.0
- RG178 Coax 50Ω Impedance
- 2-3dBi Gain (nominal)
- Vertical Polarization
- Admitted Radiation Power 1W
- iPex/UFL Connector
- Operating temp –40 to +70°C

Applications

- Embedded GSM Systems
- For World-wide Use

Ordering Information

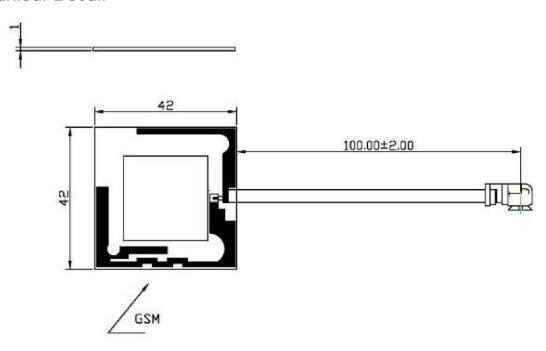
Part Number	Description
ANT-PCB4242-FL	Miniature PCB Penta Band Antenna







Mechanical Detail



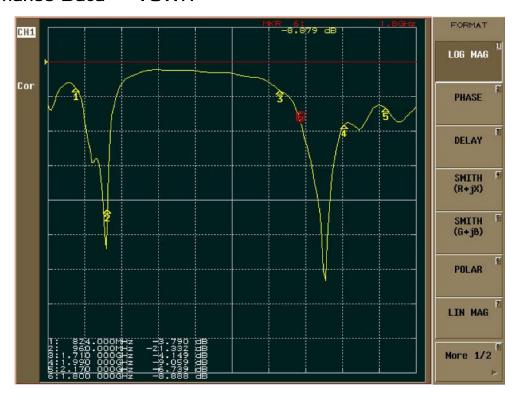
Performance Data — TEST VSWR



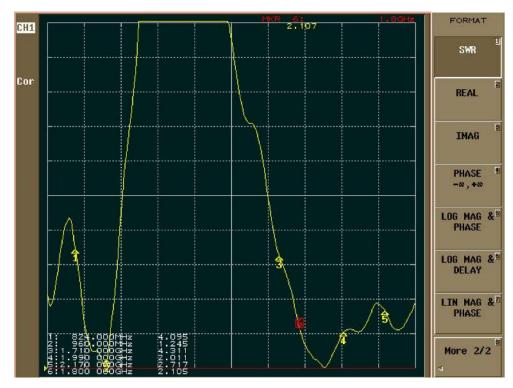
ANT-PCB4242



Performance Data — VSWR

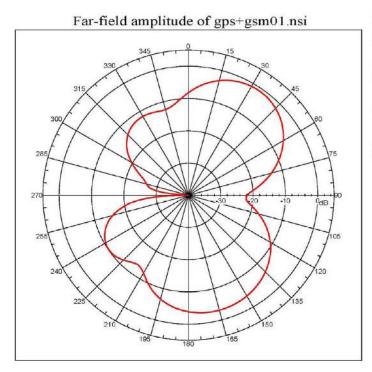


Performance Data — RETURN LOSS



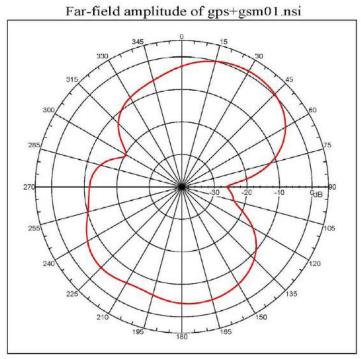


Performance Data—Smith Chart @ 880MHz



For-field omplitude. Eptincipal: Linear, Taw = 0.005 deg Gain = -0.92758 dbi = -0

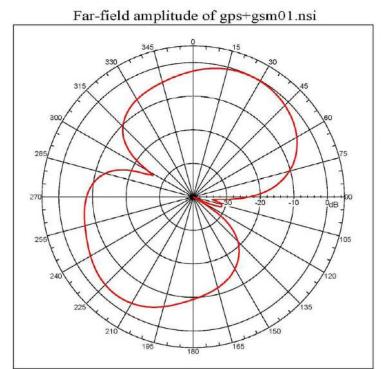
Performance Data—Smith Chart @ 920MHz



Fair-field amplitude, Eprincipoli Linear, Tww = 0.000 dep Gain = 1.08571 db 3 dep Gain = -37.66057 db, Men fair-field (plot) = -37.66057 db, Men fair-field (plot) = -37.66057 db, Men fair-field (plot) = -37.6605 dep Gain = -37



Performance Data—Smith Chart @ 960MHz



For-field caplitude, Eprincipel: Lincor, Teu = 0.000 deg

Onin = -0.1252 dil.

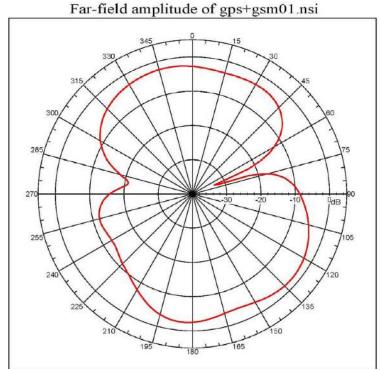
Onin = -0.1252 dil.

(global) = -35.2251 dil.

Onin = -0.1252 dil.

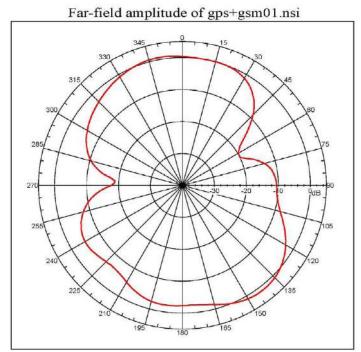
Onin = -0

Performance Data—Smith Chart @ 1710MHz



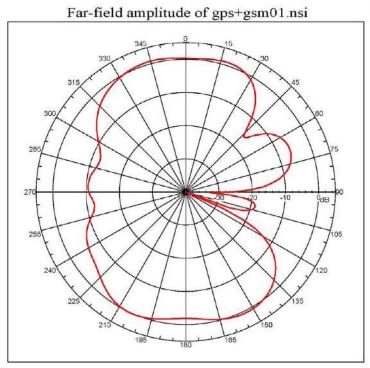


Performance Data—Smith Chart @ 1785MHz



Fas-field applitude, optimipal: Linear, Tais + 8.000 deg
Onis = 1.31440 ddl
Man Institute (diplan) = -00.52195 de, Max fas-field (plot) =
Max Institute (diplan) = -00.52195 de, Max fas-field (plot) =
Month (diplan) = -00.52195 de, Max fas-field (plot) =
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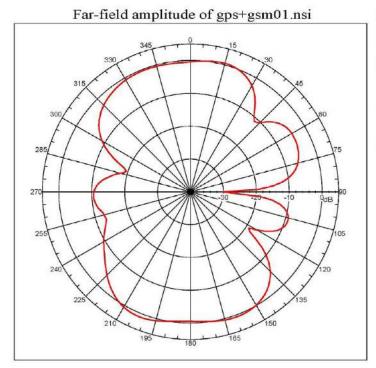
Performance Data—Smith Chart @ 1850MHz



Far-field amplitude, Eprincipal: Linear, Tau = 8.080 deg Gais = 0.57805 dB; msc far-field (ploot) = -41.31847 dB, Mac far-field (plot) = -41.31847 dB, Mac far-

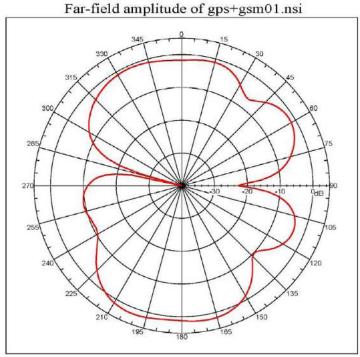


Performance Data—Smith Chart @ 1880MHz



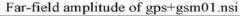
Far-field suplitude, Opticipal Lisson, Tau = 8.000 dog Gois = 1.1225 dol 1 miles 1.000 dog Gois = 1.000 dol 1 miles 1.000 dog Gois = 1.0000 dog Gois = 1.0000 dog Gois = 1.0000 dog Gois =

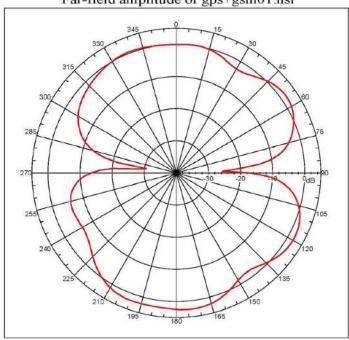
Performance Data—Smith Chart @ 1920MHz





Performance Data—Smith Chart @ 1990MHz





Far fold mgclitude, Eprincipal: Linear. Tax = 8.888 deg

far facility (global) = -45,02542 db. Max far-field (plot) =
-45,0254 db. Max far-field (glot) =
-45,0254 db. Max far-field (plot) =
-45,0255 db.

formalization: Reference, Metwork offset = 9.000 dB

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Waste Batteries and Accumulators

Where batteries are fitted, before

recycling the product, the batteries

must be removed and disposed of at a

Directive 2006/66/EC

licensed collection point.

RF Solutions Ltd. Recycling Notice

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Discard with normal waste, please recycle.

ROHS Directive 2011/65/EU and amendment 2015/863/EU Specifies certain limits for hazardous substances.

WEEE Directive 2012/19/EU

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