700

GSM & GPS Rugged 'Puck' Antenna IP67

Features

- 4G GSM & GPS Antenna
- World-Wide Use
- Rugged Screw Fix connector
- 3m RG174u-DS Low Loss
- SMA (M) Connector
- Operates –30 to +80degC

GPS

- 1575.42MHz
- Bandwidth 10MHz
- Active LNA gain: 30dB typ
- Noise Figure 1.5max
- SMA Male Connector
- Operates from 2.7—5.5V, 28mA

GSM

- 4G Antenna
 - 824 960MHz
 - 1710 2170MHz
 - 2.6 2.7GHz
- Active gain: +2dBi
- VSWR < 2.0
- Omni directional
- Impedance 50ohm



Applications

- Automotive Applications
- Covert Applications
- Machine to Machine
- Secure Rugged Applications

Description

A Rugged antenna with high performance for worldwide use. This antenna provides 4G GSM Antenna with 2dBi gain. Housed in a rugged low profile UV resistant IP67 housing, this antenna is compact and resistant to Vandalism.

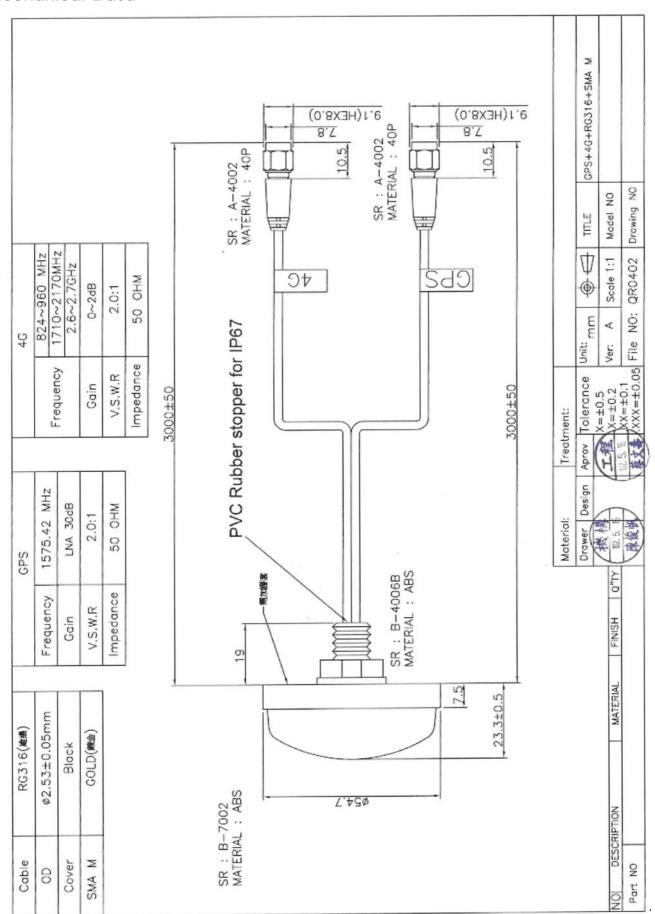
	Description	Cable Length	Connector
ANT-GSMGPSPUKS	Puck Antenna	3metres	SMA (M)





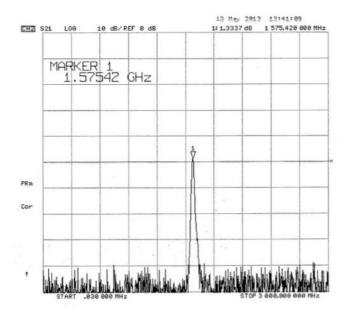


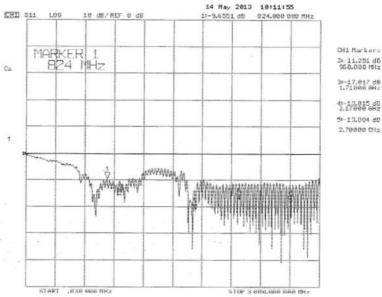
Mechanical Data

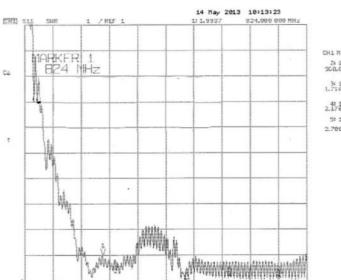




Test VSWR





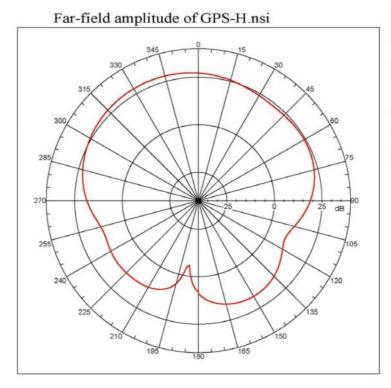


CH1 Markers 2: 1.7389 968.080 M/z 3: 1.3817 1.71888 6Hz 4: 1.5773 2.17888 6Hz

2.17866 bHz 51 1.5147 2.78686 GHz

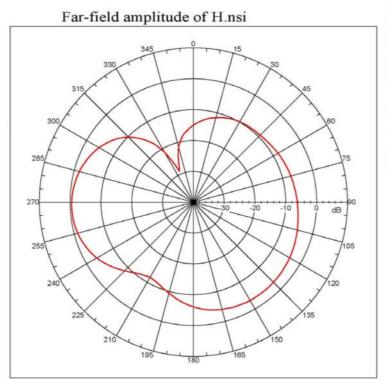


Measured Performance GPS Horizontal Plane



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 28.04781 dbi
say far-field (global) = -16.72397 db, Max far-field (plot) =
Max far-field (global) = -16.72397 db, Max far-field (plot) =
Max far-field (global) = -16.72397 db, Max far-field (plot) =
Moranlization: Reference, Network offset = 0.000 db
Moranlization: Reference, Network offset = 0.000 deg
Plot centering: Ca
MRITORO V4.0.124, Filename/C:\Documents and Settings\NSI\Desktop\NSI
Mossurement date/time: 5/8/2013 1:23:47 PM, Filetype: NSI-97
Far-field Ct Analyzia:
Any value: 21.259 db
-10. db Deam victor: 3/8/2013 1:23:47 PM, Filetype: NSI-97
Far-field Ct Masjyzia:
Any value: 21.259 db
-10. db Deam victor: 3/8/2013 1:23:47 PM, Filetype: NSI-97
Far-field displey = 4.25 db
Far-fie

Measured Performance at 824MHz Horizontal Plane



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

Gain = -0.48917 dil
Aux far-field (global) = -41.48851 dh, Max far-field (plot) =

Noraalization: Reference, Network offset = 0.000 de

Plot centering: On

NUTABLISATION: Reference, Network offset = 0.000 de

Plot centering: On

NUTABLISATION: Person of the control of the centering: On

NUTABLISATION: Price of the centering: On

NUTABLISATION: Price of the centering: On

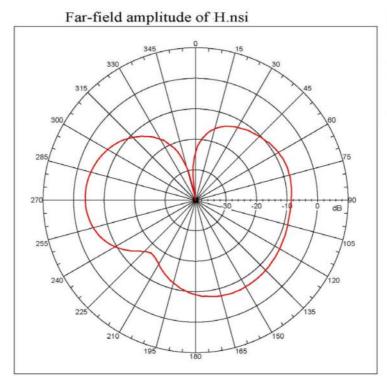
NUTABLISATION: On the centering: On

NUTABLISATION: On the centering: On the centering: On the centering: On

Nutablish of the centering: On the centering:

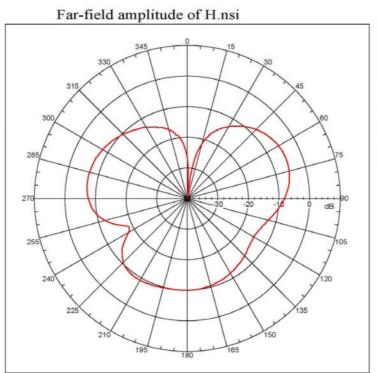


Measured Performance at 850MHz Horizontal Plane





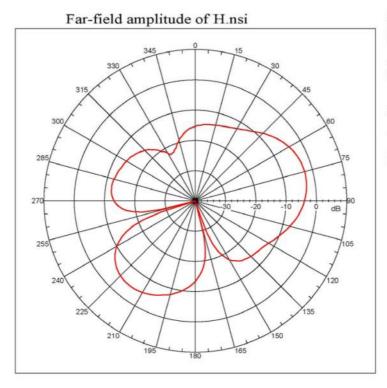
Measured Performance at 900MHz Horizontal Plane



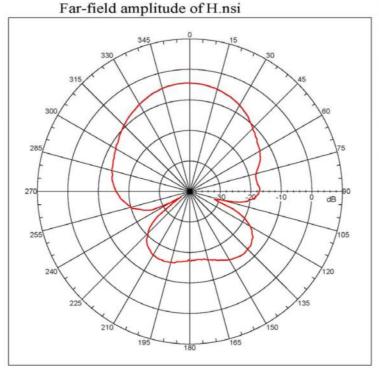
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -5.19635 dml = -46.75603 dm, Max far-field (plot) =
Max far-field (global) = -46.75603 dm, Max far-field (plot) =
Max far-field (global) = -66.75603 dm, Max far-field (plot) =
Mormalization: Reference, Network offset = 0.000 dm
Head att = 67.9999 deg, Vpeak att 9.000 deg
Flot centering: Cm
MEIO00 V4.0.124, Filenameici\Documents and Settings\MEI\Desktop\Z
Memouvement date/time: 5/9/2013 11:26:45 AM, Filetype: NEI-97
Far-field CTx Analypis:
Ang value: -10.312 dm
-2-dm Beam vidth: 82.12 deg
-10. dm beam vidth: Not Found
Lett Sidelobe: -1.69 dm at -77.490 deg
Flight Sidelobe: -452 dm at -77.490 deg
Flight Sidelobe: -452 dm at -77.490 deg
Flight Sidelobe: -16.0001 deg, Center = 8.000 deg, #pts = 181
Memouvement and Memouvement an



Measured Performance at 960MHz Horizontal Plane

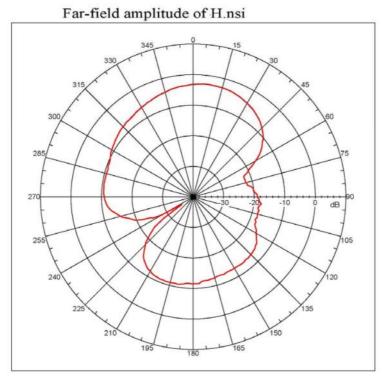


Measured Performance at 1710MHz Horizontal Plane

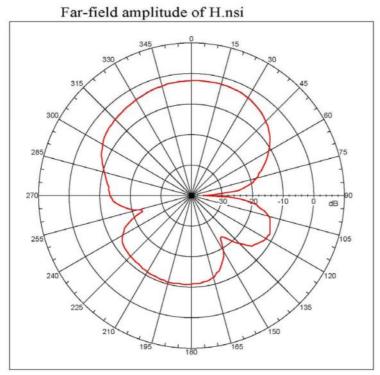




Measured Performance at 1800MHz Horizontal Plane



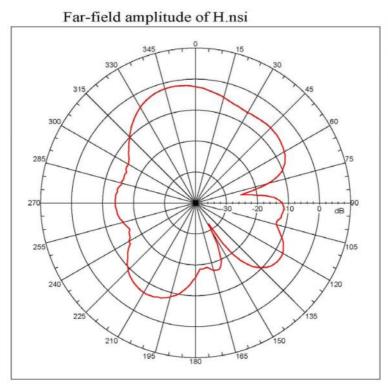
Measured Performance at 1900MHz Horizontal Plane



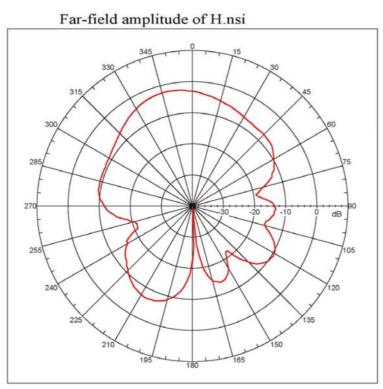
Far-field amplitude, Eprincipal; Linear, Tau = 0.000 deg Gain = -2.2090 dBh.
Max far-field (global) = -49.26694 dB, Max far-field (plot) = -49.26694 dB, Max far-field (plot) = -49.26694 dB. Max far-field (plot) = -49.26694 dB. Personce, Network offset = 0.000 dB Plot on the field of the fie



Measured Performance at 2100MHz Horizontal Plane



Measured Performance at 2170MHz Horizontal Plane



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg dain = -2.31766 dB1

ANX Tax-field (global) = -49.64977 dB, Max far-field (global) = -49.64977 dB, Max far-field (global) = -49.64971 dB

-49.64977 dB

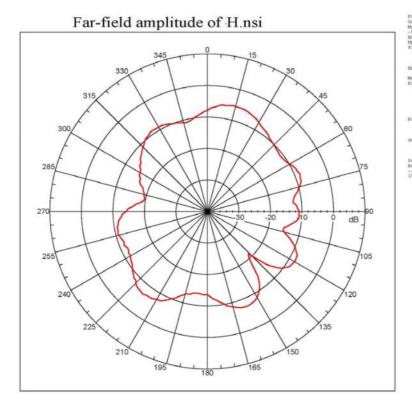
-49.64977 dB

May Tax-field (global) = -49.64977 dB, Max far-field (plot) = -49.64977 dB

May Tax-field (global) = -49.6497 dB, Max far-field (global) = -49.6497 dB, Max far-field (global) = -49.6497 dB, Max far-field (global) = -49.649 dB, Max f

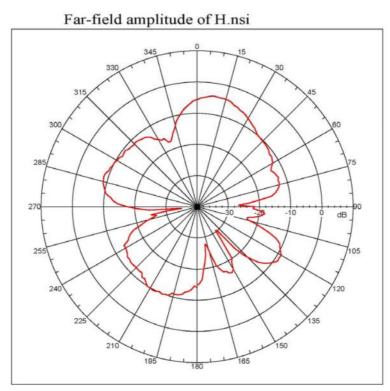


Measured Performance at 2400MHz Horizontal Pane



As a 1.5.40718 GB; as fact-field (global) = -54.41681 dB, Max far-field (plot) = 54.41691 dB, Max far-field (plot) = 54.41691 dB. As far-field (global) = 54.41

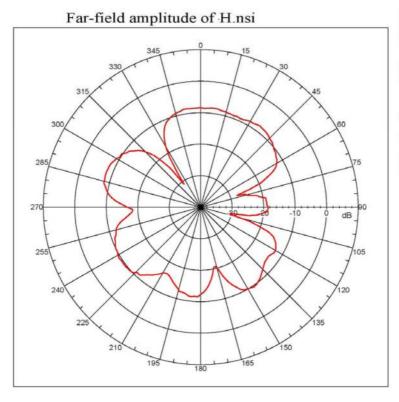
Measured Performance at 2500MHz Horizontal Plane



Far-field amplitude. Eprincipal: Linear, Tau = 0.000 deg
Gain = 4.16371 dbi
Max far-field (ploba) = -54.2997 db, Max far-field (plot) =
Max far-field (ploba) = -54.2997 db, Max far-field (plot) =
Max far-field (plota) = -54.2997 db, Max far-field (plot) =
Morealization: Reference, Network offset = 0.000 db
Mpeak st: 7,9999 deg, Vpeak at: 0,000 deg
Flot centering: On
MMISSION V4.9.124, Filename:C:\Documents and Settings\MSI\Desktop\Zi
Measucement date/rime: 5/9/2013 li:26/45 AM, Filetype: NSI-97
Far-field CUT Analysis:
Avg values -12.211 db 2-d B beam width: 94.22 deg
-13. db beam width: 94.22 deg
-14. db beam width: 96.06 deg
-14.1 316-000: -11.34 db at 72.5140 deg
Right Sidelobe: -6.12 db at 72.5140 deg
Right Sidelobe: -10.14 db at 72.5140 deg
Right Sidelobe: -0.12 db at 72.5140 deg
Righ

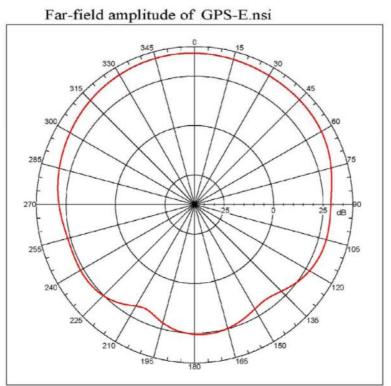


Measured Performance at 2600MHz Horizontal Plane



Par-field seplitide. Eprincipal: Linear, Yau = 0.000 deg
Smin = -0.0505 dil
Smin = -0.0505 deg
Smin = -0.0505 deg, Vpeak at: 0.000 deg
Smin = -0.0505 deg
Smin

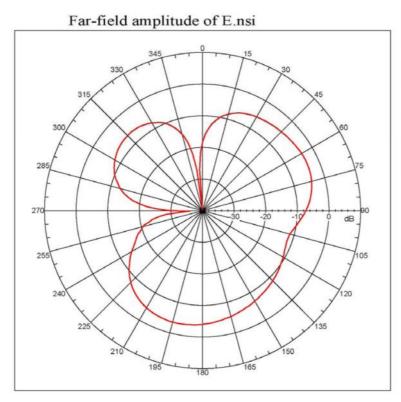
Measured Performance GPS Vertical Plane



Fas-field emplitude. Optincipal: Linear, Two = 0.000 deg
Omin = 36,73427 dh;
Omin = 36,0001 deg, Opek et = 0.000 deg
Omin = 36,0001 deg, Opek et = 0.000 deg
Flot centering: Om
NMIZ000 vd.0.124, Filsname: Cr\Documents and Settings\MII\Domin = 70.000
NMIZ000 vd.0.124, Filsname: Cr\Documents = 70

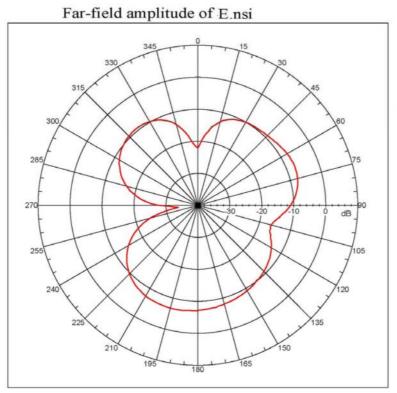


Measured Performance at 824MHz Vertical Plane



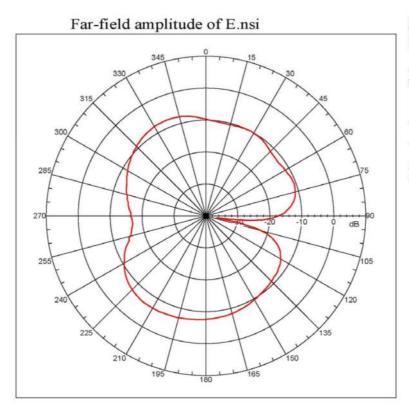


Measured Performance at 850MHz VerticalPlane



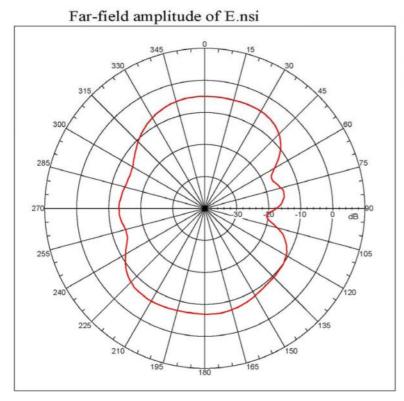


Measured Performance at 900MHz Vertical Plane





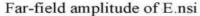
Measured Performance at 960MHz Vertical Plane

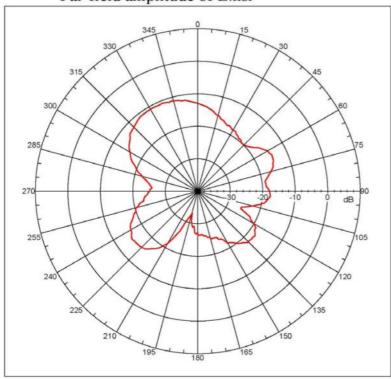


Far-field amplitude, Eprincipal: Linear, Tau = 0.880 deg
Onin = 4.8546 deg.
Onin = 6.8546 deg.
Onin = 6.8546



Measured Performance at 1710MHz Vertical Plane





Far-field amplitude. Eprincipal: Linear, Tau = 0.000 deg

Gain = -10.0200 dei

Hornalization: Beference, Network offset = 0.000 dei

Hornalization: Beference, Network offset = 0.000 deg

Flot centering: On

NEI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\25

Measurement date/fine: 5/9/2013 1:10:39 PM, Filetype: NSI-97

Far-field Cut Analysis:

Any value: -13.65 de. 46 deg

-10. de beam vidth: 12.47 deg

-10. de beam vidth: 175.81 deg

Befer zidelobe: -4.18 de at 65.063 deg

Right sidelobe: -2.16 de at 65.063 deg

Right sidelobe: -2.16 de, at cester = 0.000 deg, #ptz = 161

State -180.00001 deg, top = 180.00001 deg, Delta = 2.000

deg

Belevation (deg)

Center = 0.000 deg, #pts = 1

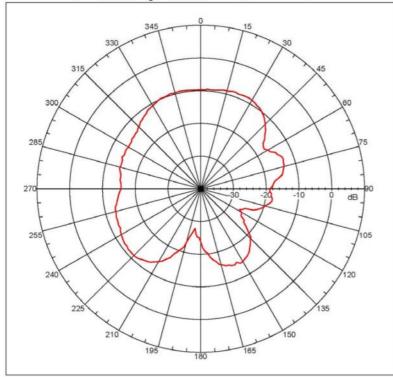
Ealected beam (s) 1 of 12

Ream Frequency Arizuth Elevation Fol

5 1.710 GHz Arizuth Elevation Single-pol

Measured Performance at 1800MHz Vertical Plane

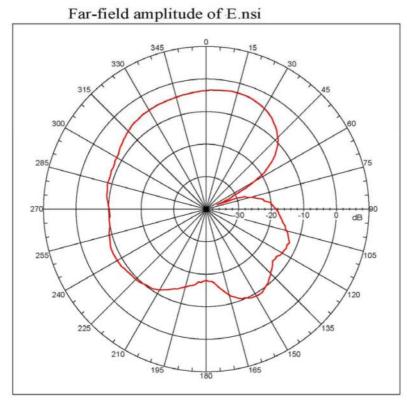
Far-field amplitude of E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Cain = 0.50527 dbi
Max far-field (global) = -55.38741 db, Max far-field (plot) =
-55.38742 db
-55.38742 db
-55.38742 db
-55.38742 dc
Max far-field (global) = -55.38741 db, Max far-field (plot) =
-55.38742 db
-55.38742 dc
-55.38742 dc
Max far-field (global) = -55.38742 dc
Max far-field (global) = -55.38742 dc
Max far-field (global) = -56.38742 dc
Max far-field (global) = -56.38742 dc
-56.38 dc
-56



Measured Performance at 1900MHz Vertical Plane

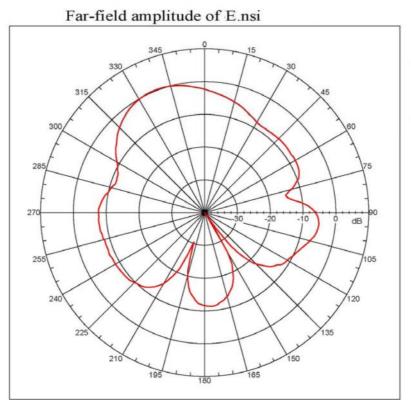


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg

Gain = -2.92528 dm;

Max Ear-field (global) = -49.96224 dm. Max far-field (plot) =
-69.9625 dm
-69.9625

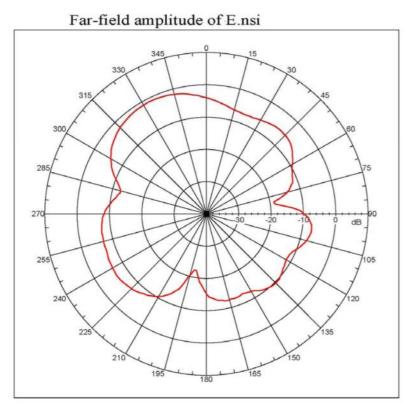
Measured Performance at 2100MHz Vertical Plane



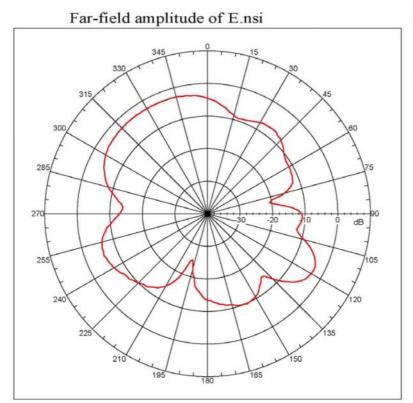
Far-field asplitude, Eprincipal: Linear, Tau = 0.000 deg
Gaim = 0.27872 dml
Max far-field (global) = -47.02798 dm, Max far-field (plot) =
-47.0212 dml
Max far-field (global) = -47.02798 dm, Max far-field (plot) =
-47.0212 dml
Max far-field (global) = -47.02798 dm, Max far-field (plot) =
-47.0212 dml
Max far-field (global) = -47.02798 dml
Max far-field (global) = -47.0201 dml
Max far-field (global) = -47.0201 dml
Max far-field (global) = -47.0201 lml
Max far-field (global) = -47.0201



Measured Performance at 2170MHz Vertical Plane



Measured Performance at 2400MHz Vertical Plane

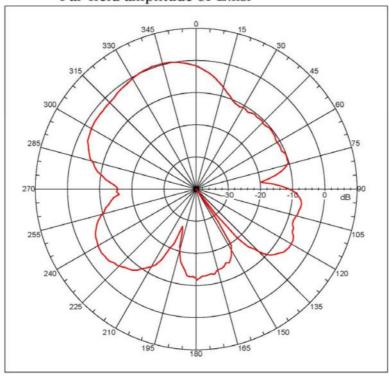


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -2.70655 dm; Max far-field (ploba): = -51.71388 db, Max far-field (plot): = Max far-field (ploba): = -51.71388 db, Max far-field (plot): = Max far-field (plot



Measured Performance at 2500MHz Vertical Plane



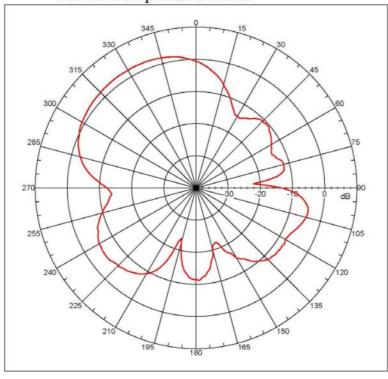


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 0.45901 dB1
Max far-field (global) = -49.67698 dB, Max far-field (plot) =
-69.67699 dB. Marcance, Network offset = 0.000 dB
Hobek at: -25.00001 deg, Vpeak at: 0.000 deg
Plot centering: On

NBI2000 V4.0.124, Filename:C:\Documents and Settings\NBI\Desktop\2
Measurement date/time: 5/9/2013 1:18:59 PM, Filetype: NBI-97
Far-field CUx Manlysis:
Any value: -7.564 dB
-3. db Desm Vidth: 03.09 deg
-3. db Desm Vidth: 03.09 deg
-4. db Desm Vidth: 03.01 deg
-4. db Desm Vidth: 03.01 deg
-5. db Desm Vidth: 03.01 deg
-6. db Desm Vidth: 04.01 deg
-6. db Desm Vidth: 05.01 deg
-6. db Desm Vidth: 05.00 deg
-6. db Desm Vidth: 05.00

Measured Performance at 2600Hz Vertical Plane

Far-field amplitude of E.nsi



Par-field amplitude, Eprincipal: Linear, Tau = 0.080 deg
Gain = 2.23805 db;
Maw far-field (global) = -47.97873 db, Max far-field (plot) =
-47.97873 db
-47.97873 db
Homat Cartellog (global) = -47.97873 db, Max far-field (plot) =
-47.97873 db
Homat Cartellog (global) = -47.97873 db, Max far-field (plot) =
-47.97873 db
Homat Cartellog (global) = -47.0808 deg
Flot centering: On

NEIZO00 V4.0.124, Filename:C:\Documents and Settings\NEI\Desktop\2/
Measurement date/time: 5/9/2013 1:18:59 PM, Filetype: NEI-97
Far-field Cart Analysis:
Any value: -5.678 db
-3. db Deam width: 60.08 deg
-6. db Deam width: 60.08 deg
-6. db Deam width: 80.10 deg
-7. db Deam width: 80.10 deg
Firefield display setup
Associated (global) deg, Center = 0.003 deg, Spts = 181
State -108.00801 deg, Stop = 180.00801 deg, Delta = 2.080

deg
State -108.00801 deg, Stop = 180.00801 deg, Delta = 2.080

deg
State -108.00801 deg, Stop = 180.00801 deg, Delta = 2.080

deg
State -108.00801 deg, Stop = 180.00801 deg, Delta = 2.080

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State -108.00801 deg, Stop = 180.00801 deg, Delta = 2.080

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State -108.00801 deg, Stop = 180.00801 deg, Delta = 2.080

deg
State -108.00801 deg
State -108.00801

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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., fulfills its WEEE obligations by membership of an approved compliance scheme.

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Authorized Distributor

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