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

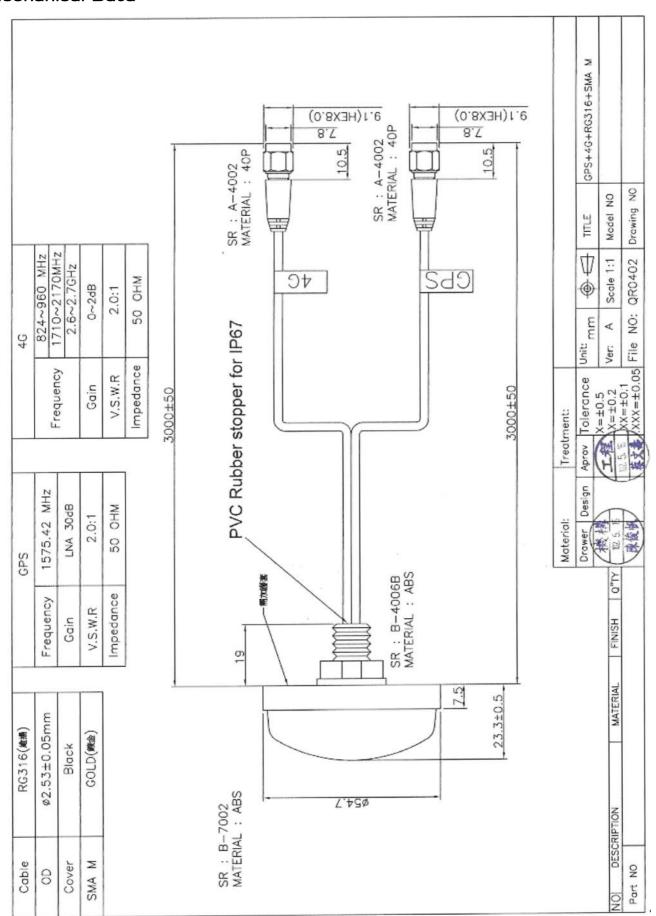
A Rugged antenna with high performance for worldwide use. This antenna provides 4G GSM Antenna with 2dBi gain. Housed in a rugged low profile UV resistant IP67 housing, this antenna is compact and resistant to Vandalism.

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



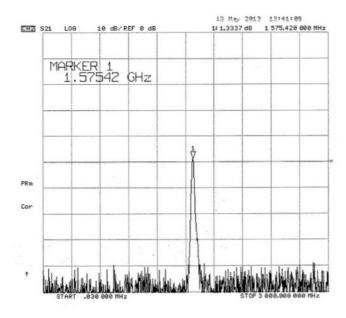


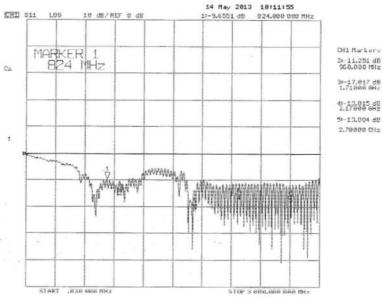
Mechanical Data

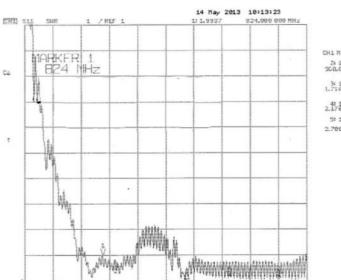




Test VSWR





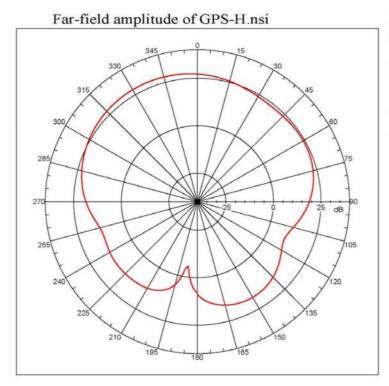


CH1 Markers 2: 1.7389 968.080 M/z 3: 1.3817 1.71888 6Hz 4: 1.5773 2.17888 6Hz

2.17866 bHz 51 1.5147 2.78666 GHz

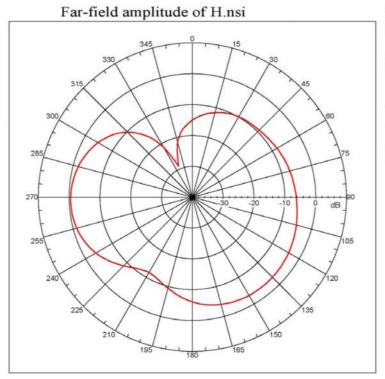


Measured Performance GPS Horizontal Plane



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 28.04381 dbi
say far-field (plobal) = -16.72397 db. Max far-field (plot) =
Max far-field (plobal) = -16.72397 db. Max far-field (plot) =
Max far-field (plobal) = -16.72397 db. Max far-field (plot) =
Moraalization: Reference, Network offset = 0.000 db
Moraelization: Reference, Network offset = 0.000 dbg
Plot centering: On
MNIROU V4.0.114, FilenamorCr\Documenta and Settings\NSI\Desktop\N
Momaurement date/time: 5/8/2013 1:25:47 PM. Filetype: NSI-97
Far-field Cta Analysis:
Any value: 21.259 dbg
-10. db Desa width: 130.25 dbg
-10. db Desa width: 150.25 dbg
-10. db Desa width: 150.0001 dbg, Bbla = 2.000
dbg
-10. db Desa width: 150.0001 dbg, Bbla = 2.000
dbg
-10. db Desa width: 150.0001 dbg, Bbla = 2.000
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-10. db Desa width: 150.0001 dbg, Bbla = 2.000
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-10. db Desa width: 150.0001 dbg, Bbla = 2.000
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-10. db Desa width: 150.0001 dbg, Bbla = 2.000
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-10. db Desa width: 150.0001 dbg, Bbla = 2.000
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-10. db Desa width: 150.0001 dbg, Bbla = 2.000
dbg
-10. db Desa width: 150.0001 dbg
-10. db Desa w

Measured Performance at 824MHz Horizontal Plane

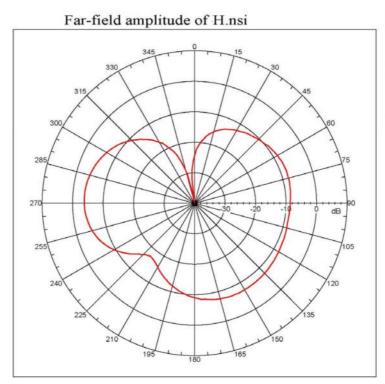


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gaim = 0.49917 dbl
Max far-field (plobal) = -41,48851 db, Max far-field (plot) =
Max far-field (plobal) = -41,48851 db, Max far-field (plot) =
Max far-field (plotal) = -41,48851 db, Max far-field (plot) =
Moraalization: Enference, Network offset = 0.000 db
Moraalization: Enference, Network offset = 0.000 db
Plot centering: On
MSIZORS V4.8.124, Filename:C:\Documents and Settings\MSI\Deaktop\Z0
Measurement date/time: 3/9/2013 11:26:45 AM, Filetype: NSI-97
Par-field Cut Analyzis:
Avy value: -6.461 db fd 2
-10. db beas width: 52.91 deg
-10. db beas width: 52.91 deg
-10. db beas width: 97.17 deg
Left Sidelbeit: NOF Found
Right Sidelbeit: -2.66 db at 141.788 deg
Extatt -180.00001 deg, Stop = 180.00001 deg, Fpts = 181
Statt -180.00001 deg, Stop = 180.00001 deg, Petta = 2.000
deg
Center = 0.000 deg, *pts = 1
Felected beam (s) 1 of 12
Escam Freeprony Arianth Elevation Fol

1 0.824 GBt Arianth Elevation Fol

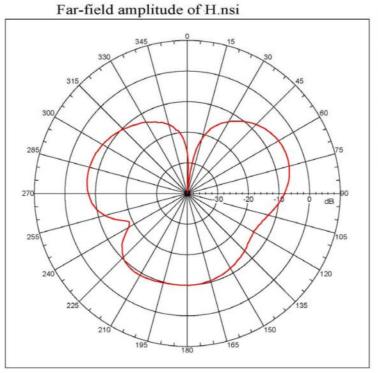


Measured Performance at 850MHz Horizontal Plane



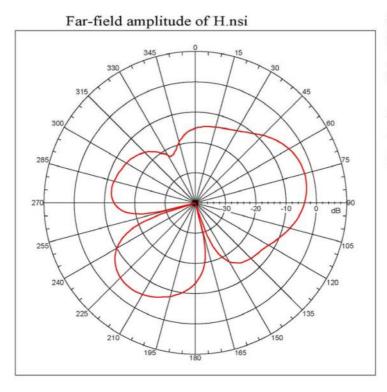


Measured Performance at 900MHz Horizontal Plane



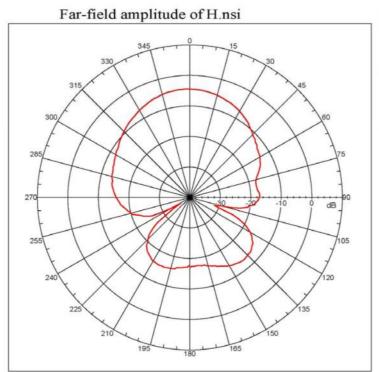


Measured Performance at 960MHz Horizontal Plane





Measured Performance at 1710MHz Horizontal Plane



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

Gain = 4.025 dii

Morsalization: Reference. Network offset = 0.000 dE

Morsalization: Reference. Network offset = 0.000 dE

Morsalization: Reference. Network offset = 0.000 deg

Plot contering: Ga

MSI2000 v4.0.124, Filename:Ct\Documents and Settings\MSI\besktop\Z

Measurement date/time: 3/9/2013 11:26:45 MM. Filetype: NSI-97

Raf-field cut Analysis:

Any value: -12.461 dB 5.0 deg

-10. dB beam vidth: 14.55 deg

-10. dB beam vidth: 14.55 deg

-10. db beam vidth: 14.25 deg

-10.00 deg, beta = 181

State -181.00001 deg, center = 0.000 deg, #pts = 181

State -181.00001 deg, 2top = 160.0001 deg, belta = 2.000

deg

Center = 0.000 deg, #pts = 1

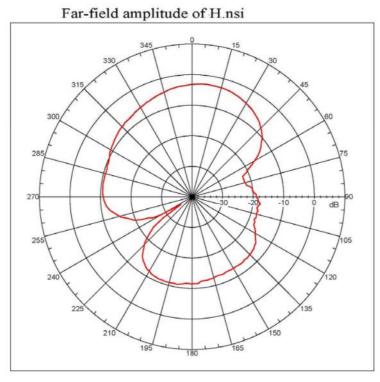
Felected beam(s) 10 12

Beam Frequency Alisuth Elevation Fol

5 1.110 Git Arisuth Elevation Single-pol

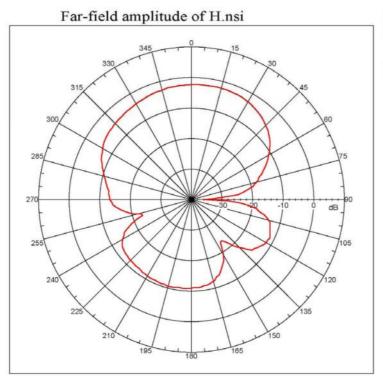


Measured Performance at 1800MHz Horizontal Plane



Far-field asplitude, Eprincipal: Linear, Taw = 0.008 deg Usia = -2.80558 dB; Max far-field (global) = -49.70662 db, Max far-field (global) = -49.70662 db, Max far-field (plot) = -49.70662 db, Max far-field (plot) = -49.70662 db, Max far-field (plot) = -49.7062 db, Max far-field (pl

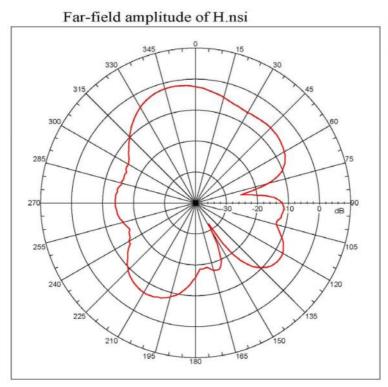
Measured Performance at 1900MHz Horizontal Plane



Far-field amplitude, Eprincipal: Linear, Thu = 3.000 deg Gais = -2.2092 dhi Max far-field (plot) = -49.26664 dh, Max far-field (plot) = -49.26694 dh, Max far-field (plot) = -9.26694 dh, Max far-field (p

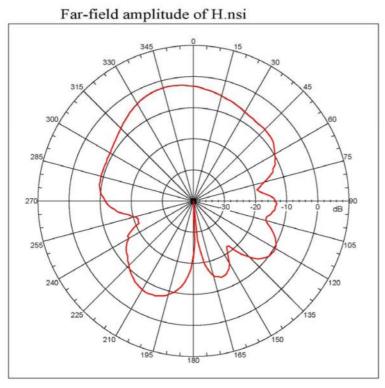


Measured Performance at 2100MHz Horizontal Plane



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg (ani = 1.141)1 dhi ani (ani = 1.141)1 dhi (ani = 1.

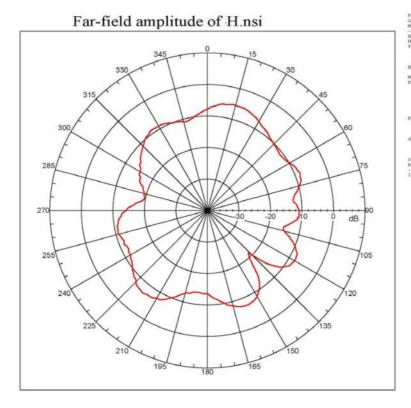
Measured Performance at 2170MHz Horizontal Plane



Far-field amplitude, Eptincipal: Linear, Thu = 0.000 deg Gain = -2.3156 dBL Max far-field (global) = -49.84977 dB, Max far-field (plot) = -49.84973 dB. Max far-field (global) = -49.84973 dB. Max far-field (global)

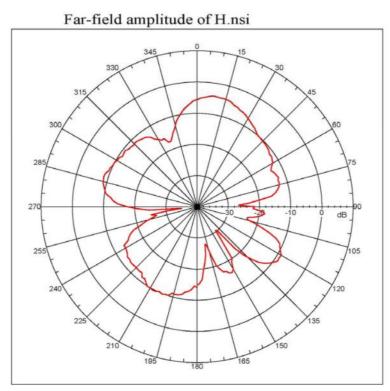


Measured Performance at 2400MHz Horizontal Pane



ar-field applitude, Eprincipal: Linear, Tau = 0.000 deg aim = -3.4013 das = -54.41401 db, Max far-field [plot] = -54.41401 db, Max far-field [plot] = -54.41403 db, Max far-field [plot] = -54.6140 db, Max far-field [plot] = -54.4140 db,

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
MMIJ2000 V4.9.124, Filename:C:\Documents and Settings\MSI\Desktop\Zi
Measucement date/rime: 5/9/2013 li:26/45 AM, Filetype: NNI-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

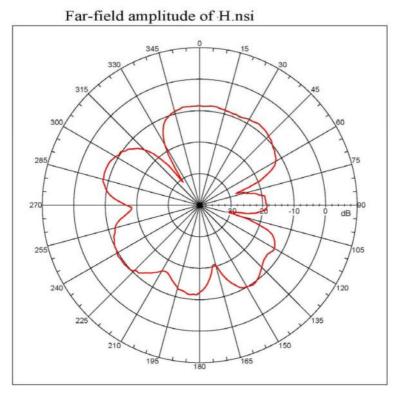
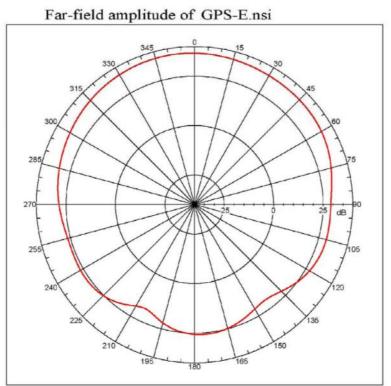


Fig-field amplitude, Sprincipal: Linear, Tou = 0.000 deg Sant = -0.0555 dB. (1955 dB. 1955) dB. How far-field (globel) = -50.37335 dB. How far-field (globel) = -50.37337 dB. How far-field (globel) = -80.37337 dB. Morealization: Enference, Natwork offset = 0.000 dB Boost State of the State o

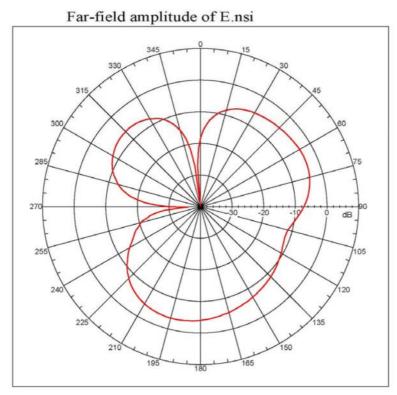
Measured Performance GPS Vertical Plane



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\Donktop\2
Measurement date/time: 3/9/2013 1:28:00 PW, Filstype: NNI-07
Fas-field Cat Analysis:
Any walke: 20,513 dh
14,73 deg
-10, db bean width: 154.73 deg
-10, db bean width: 154.73 deg
-16, db bean width: 154.73 deg
-16, db bean width: 224.38 deg
Left : Nidoleb: Not Touch dh at 177.000 deg
Fas-field display setup
Alimuth (deg)
Span = 360,00081 deg, Conter = 0.000 deg, Sptn = 181
Omin = 100,0001 deg, secp = 100,0001 deg, Delta = 2.000
deg Elevation (deg)
Center = 0.000 deg, Sptn = 1
Delected bean(s) 1 of 1
Decem = Focuency Azimsth Elevation Fol
1 1.51542 GHz Azimsth Elevation Fol

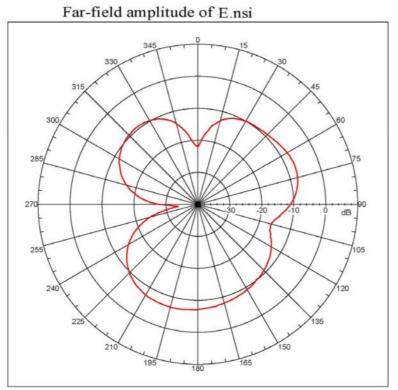


Measured Performance at 824MHz Vertical Plane



Far-field amplitude, Eprincipal: Linear, TNN = 0.000 deg
Gain = -1.99476 dB;
NNX far-field (global) = -46.4941 dB, Max far-field (plot) =
-46.49412 dB.
-46.49412 dB.
November of the control of the cont

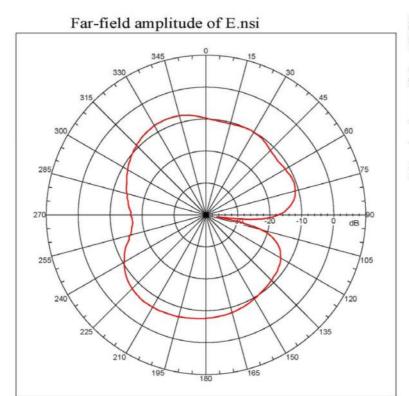
Measured Performance at 850MHz VerticalPlane



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -6.74011 dbi Max far-field (global) = -47.99607 db, Max far-field (global) = -47.99607 db, Max far-field (plot) = -47.99808 db Max far-field (global) = -47.99

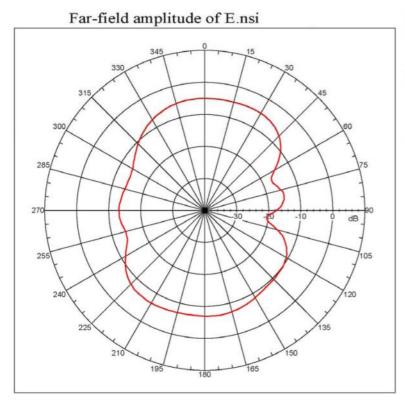


Measured Performance at 900MHz Vertical Plane



Par-field amplitude, Eprincipal: Linear, Tau = 8.000 deg Comis = 4.0272 del la Comis = 4.0284 del Comis = 6.000 del Comis = 6.0284 del Comis = 6.000 d

Measured Performance at 960MHz Vertical Plane

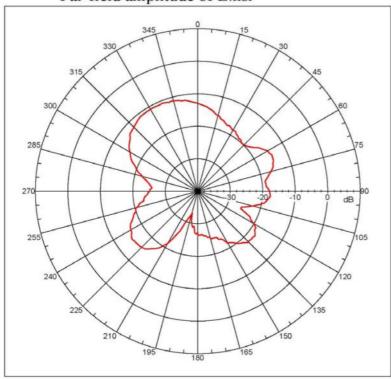


Far-field amplitude, Eprincipal: Linear, Tau = 0.880 deg
Onin = -1.85420 dB;
Onin = -1



Measured Performance at 1710MHz Vertical Plane

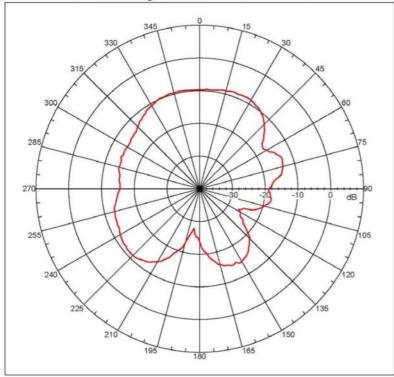




Far-field amplitude. Eprincipal: Linear, Tau = 0.000 deg
Gain = -10.02007 dBi
Moraelination: Reference, Network offset = 0.000 dB
Hock ati = 22.0001 deg, Vpeak at 0.000 deg
Flot centering: Co
NSI2000 V4.0.124, Filename:C:\Documents and Settings\MSI\Desktop\25
Measurement date/time: 5/9/2017 1:10:59 PM, Filetype: NSI-97
Far-field Cut Analysis:
Aug value: -17.637 dB, 47 deg
-10. dB beam vidth: 12.47 deg
-10. dB beam vidth: 175.83 deg
Left side/lobe: -4.18 dB at deg
Left side/lobe: -4.18 dB at deg
Right side/lobe: -2.16 dB at d5.263 deg
Right side/lobe: -2.16 dB at d5.263 deg
Right side/lobe: -2.16 dB, at deg
Left side/lobe: -2.16 dB, at deg
Right side/lobe: -2.16 dB, at deg
Right side/lobe: -2.16 dB, at deg
Right side/lobe: -2.16 dB, at d6.263 deg
Right side/lobe: -2.16 dB, at d6.263

Measured Performance at 1800MHz Vertical Plane

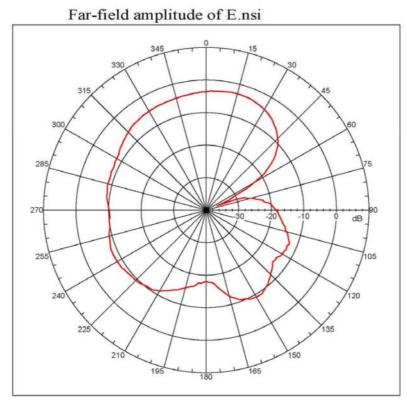
Far-field amplitude of E.nsi



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) = -57.48742 dc
-57.

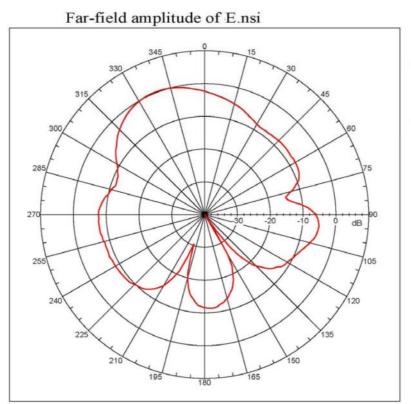


Measured Performance at 1900MHz Vertical Plane





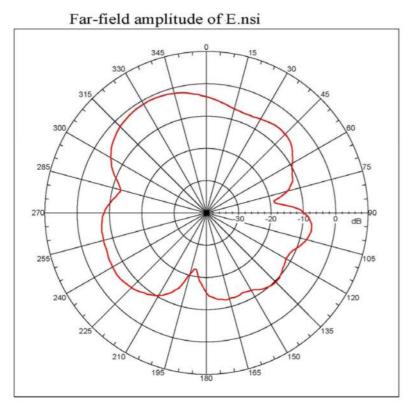
Measured Performance at 2100MHz Vertical Plane



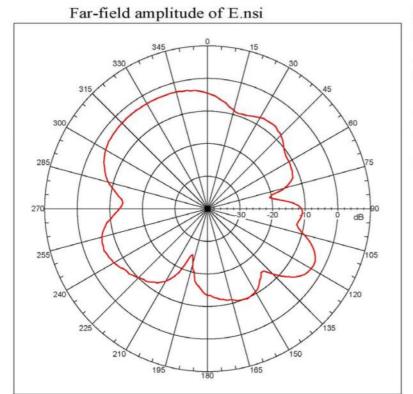
Far-field asplitude, Eprincipal: Linear, Tau = 0.000 deg
Gaim = 0.27872 dml
Max far-field (global) = -47.02798 dm, Max far-field (plot) =
-47.0212 dml
Max far-field (global) = -47.02798 dm, Max far-field (plot) =
-47.0212 dml
Max far-field (global) = -47.02798 dm, Max far-field (plot) =
-47.0212 dml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

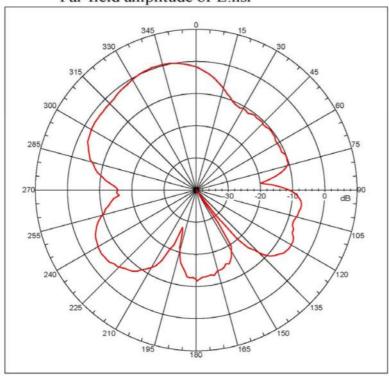


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -2.70655 dm; Max far-field (ploba): = -51.71388 db, Max far-field (plot): = Max far-fi



Measured Performance at 2500MHz Vertical Plane

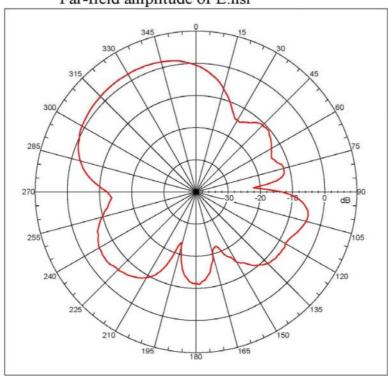




Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 0.45901 dB1
Max far-field (plobal) = -49.67678 dB, Max far-field (plot) =
-69.67697 dB.
-69.67697 dB.
Max far-field (plobal) = -49.67678 dB, Max far-field (plot) =
-69.67697 dB.
Max far-field (plot) = Max far-field (plot) =
-69.67697 dB.
Max far-field (plot) = Max far-field (plot) = Max far-field (plot)
-10. dB beam vidth (50.97 deg
-10. dB beam vidth (50.12 deg
-10. dB beam vidth (50.12 deg
-11. dB beam vidth (100.12 deg
-12. dB beam vidth (plot) = Max far-field (plot)
-13. dB beam vidth (plot) = Max far-field (plot)
-13. dB beam vidth (plot) = Max far-field (plot)
-13. dB beam vidth (plot) = Max far-field (plot)
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-17. dB beam vidth (plot) = Max far-field (plot)
-18. dB beam vidth (plot) = Max far-field (plot)
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-19. dB beam vidth (plot) = Max far-field (plot)
-19. dB beam vidth

Measured Performance at 2600Hz Vertical Plane

Far-field amplitude of E.nsi



Fac-field amplitude. Eprincipal: Linear, Tau = 0.000 deg
Gain = 2.23006 dbl
Max fac-field (global) = -47.97873 db, Max fac-field (plot) =
-47.97873 db. Max fac-field (plot) =
-47.00031 deg, Vpeak at: 0.000 deg
Flot centering: On
Maxurement date/fise: 5/9/2013 1:10:59 PM, Filetype: NBI-97
Maxurement date/fise: 5/9/2013 1:10:59 PM, Filetype: NBI-97
Fac-field (XX familysis:
Arg value: -5.478 db.
-1. db.beam width: 86.20 deg
-6. db.beam width: 86.20 deg
-6. db.beam width: 86.20 deg
-6. db.beam width: 86.20 deg
Fight Sidelobe: -15.54 db. at -119.665
Bright Sidelobe: -15.54 db. at -119.665
Bright Sidelobe: -15.54 db. at -119.665
Bright Sidelobe: -15.60 db. at -119.665
Gg
Eight Sidelobe: -15.60 db. at -119.665
Gg
Eight Sidelobe: -15.60 db. at -119.665
Gg
Eight Sidelobe: -15.60 db. at -119.665
Blatt -100.00001 deg, Center -0.000 deg, *pts = 181
State -100.00001 db., State -100.00001 deg, Center -0.000 deg, File -100.00001 deg, Center -0.000 deg

RF Solutions Ltd. Recycling Notice 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., fulfills its WEEE obligations by membership of an approved compliance scheme.

www.rfsolutions.co.uk