

4G LTE GSM 'Puck' Antenna

- Low Profile Package
- World-Wide Use
 - 700 - 960MHz
 - 1710 - 2170MHz
 - 2600– 2700MHz
- Up to +3dBi Gain
- Rugged IP67 Waterproof
- VSWR <2.0
- 3metres RG316 Cable
- SMA Male Connector
- Operates from –30 to +80°C
- M12 Screw thread Connector
- RHCP (right hand circular polarization)



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.

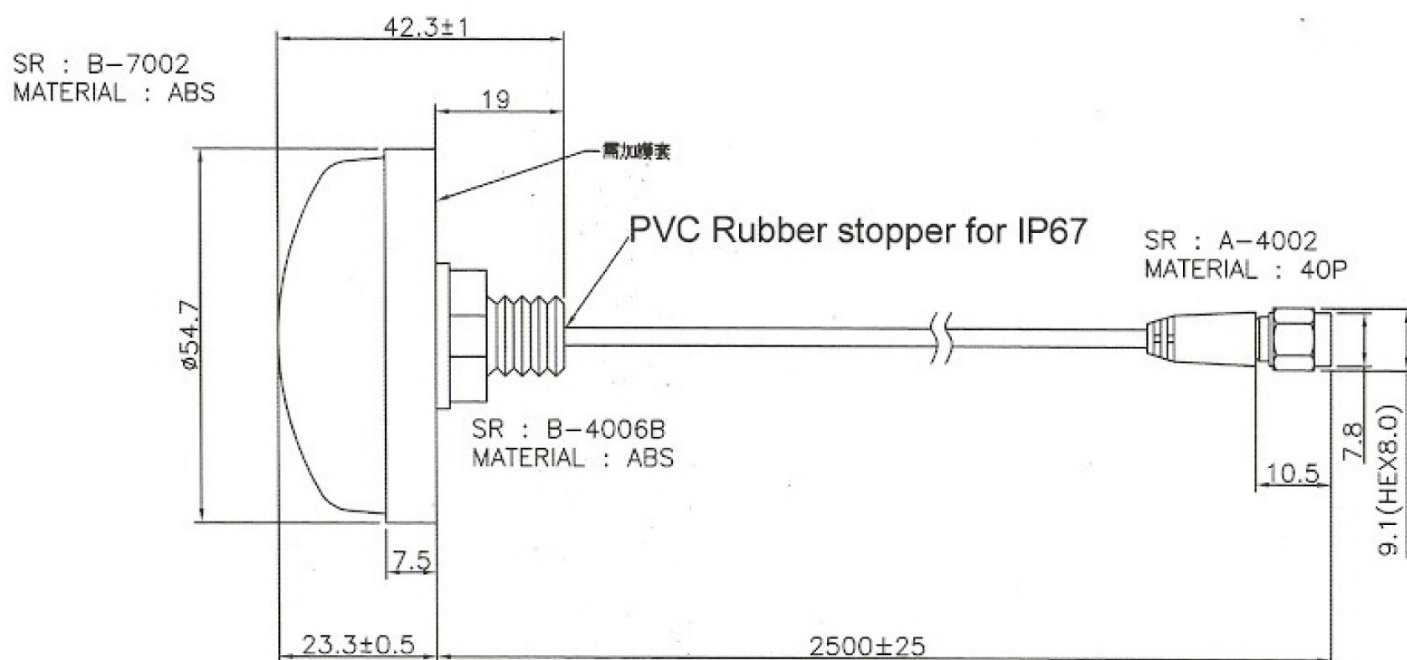
Part No	Description	Cable Length	Connector
ANT-GSMPUKS-IP67	GSM QuadBand Puck Antenna	3metres	SMA (M)

GSM Rugged 'Puck' Antenna IP67

Product Images



Mechanical Data

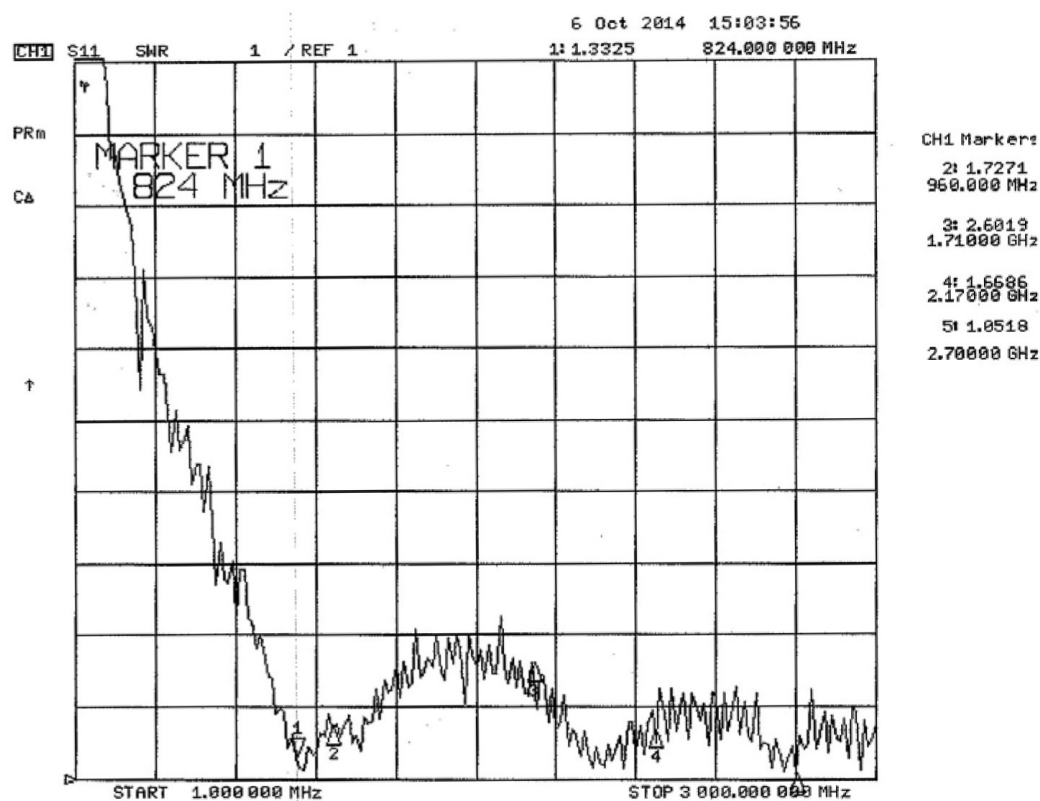
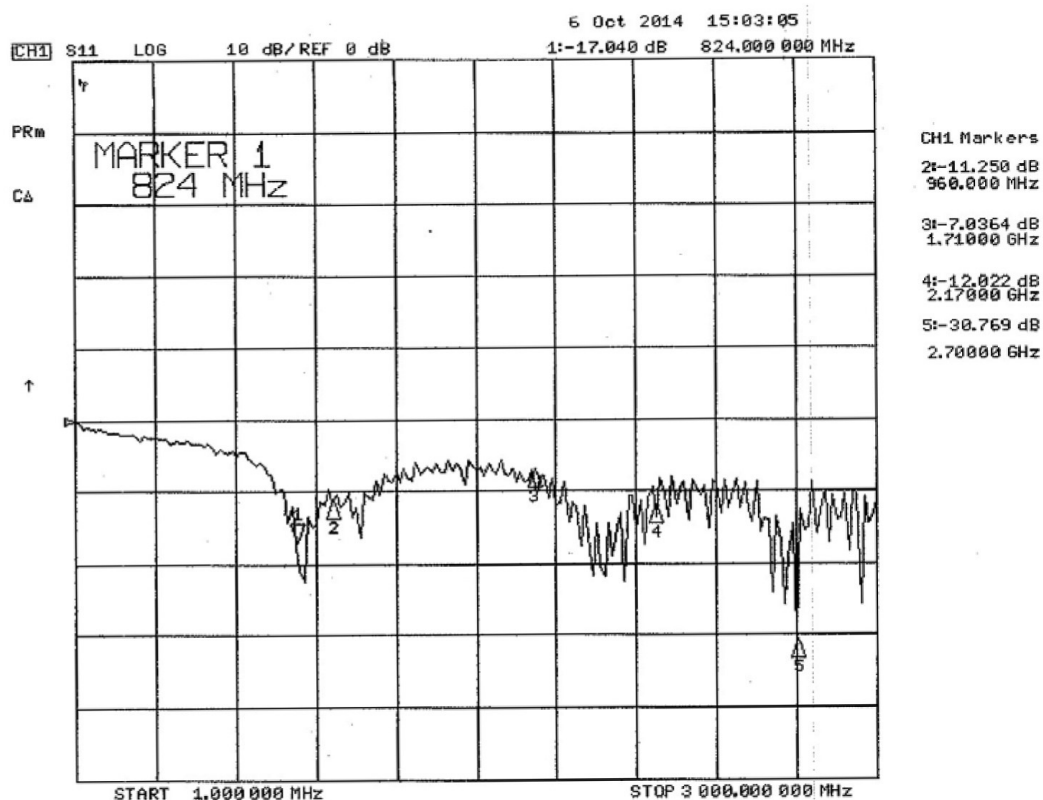


GSM Rugged 'Puck' Antenna IP67



VSWR & Return Loss

4G-04A PUK ANTENNA 700-2700MHz

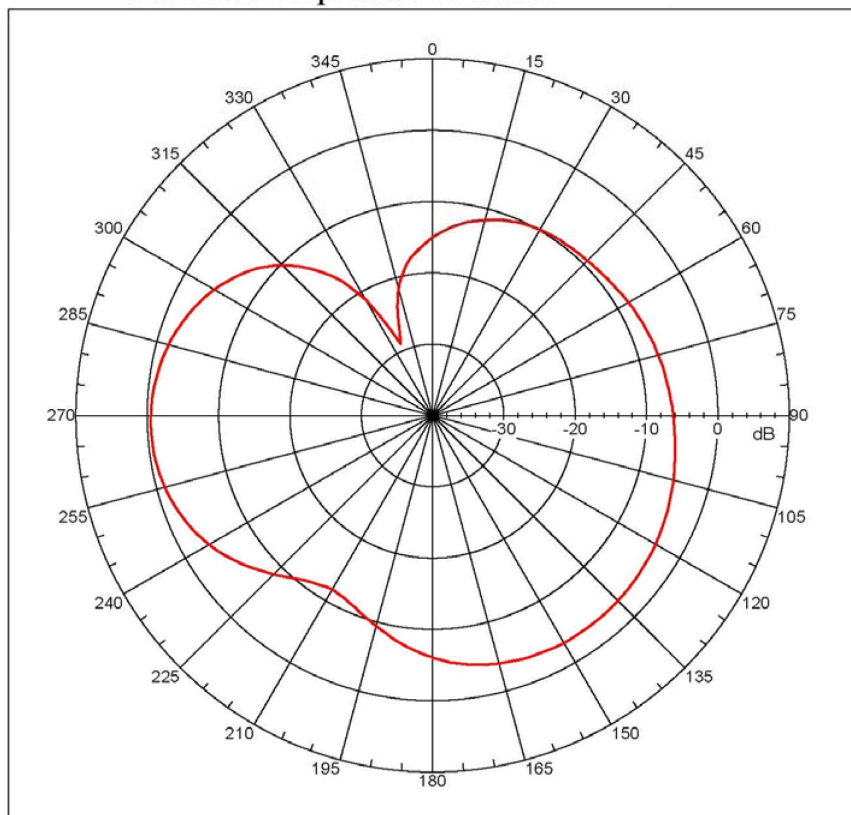


GSM Rugged 'Puck' Antenna IP67



Test Report H824

Far-field amplitude of H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -0.48917 dBi
Max far-field (global) = -43.48853 dB, Max far-field (plot) =
-43.48853 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -92.000 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 11:26:45 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -6.461 dB

-3. dB beam width: 53.91 deg

-6. dB beam width: 75.36 deg

-10. dB beam width: 97.17 deg

Left Sidelobe: Not Found

Right Sidelobe: -2.66 dB at 141.788 deg

Far-field display setup

Azimuth (deg)

Span = 360.00001 deg, Center = 0.000 deg, #pts = 181

Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

deg

Elevation (deg)

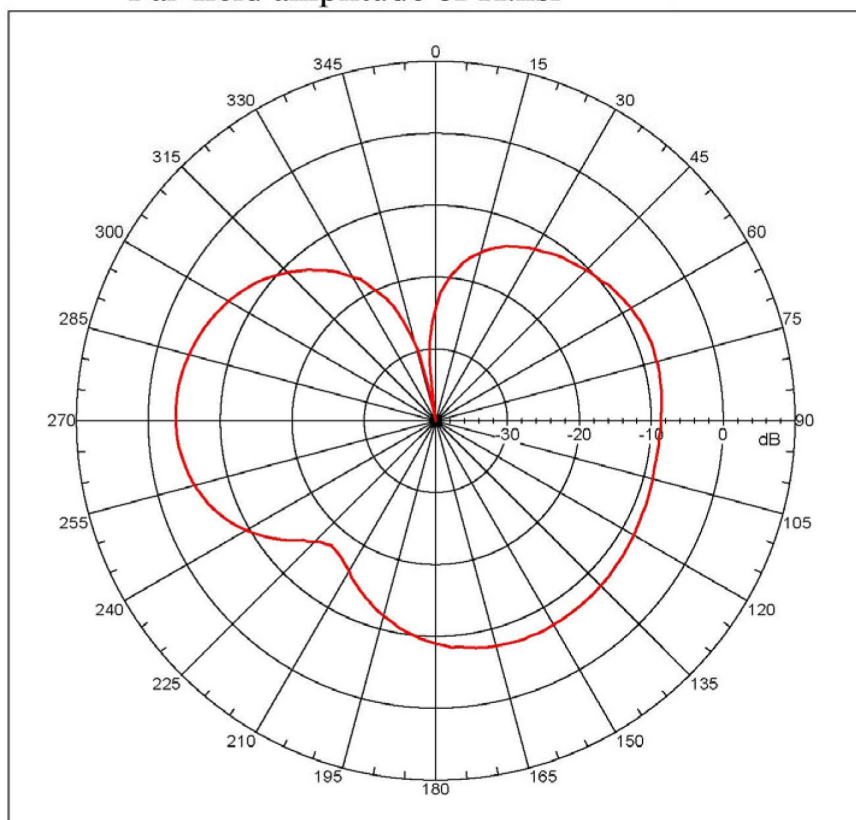
Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 12

Beam	Frequency	Azimuth	Elevation	Pol
1	0.824 GHz	Azimuth	Elevation	Single-pol

Test Report H850

Far-field amplitude of H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -3.81927 dBi
Max far-field (global) = -45.07613 dB, Max far-field (plot) =
-45.07613 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -88.00001 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 11:26:45 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -9.663 dB

-3. dB beam width: 52.61 deg

-6. dB beam width: 72.95 deg

-10. dB beam width: 92.92 deg

Left Sidelobe: Not Found

Right Sidelobe: -4.28 dB at 71.397 deg

Far-field display setup

Azimuth (deg)

Span = 360.00001 deg, Center = 0.000 deg, #pts = 181

Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

deg

Elevation (deg)

Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 12

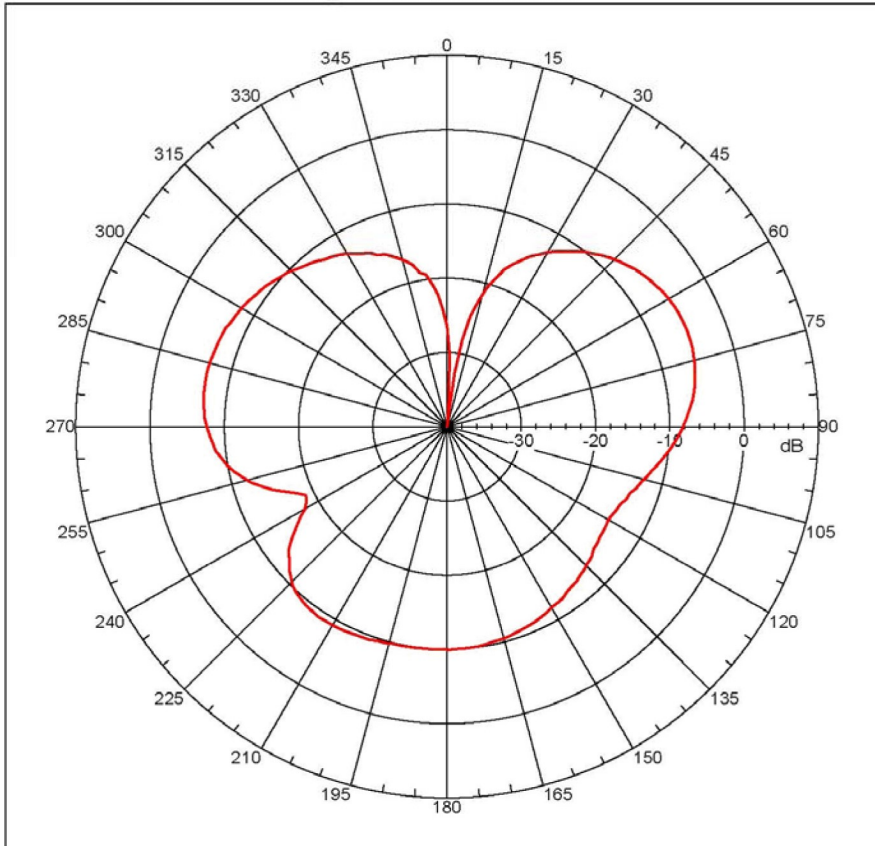
Beam	Frequency	Azimuth	Elevation	Pol
2	0.850 GHz	Azimuth	Elevation	Single-pol

GSM Rugged 'Puck' Antenna IP67



Test Report H900

Far-field amplitude of H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -5.19635 dBi
Max far-field (global) = -46.75603 dB, Max far-field (plot) = -46.75603 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 67.9999 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 11:26:45 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -10.752 dB

-3. dB beam width: 45.33 deg

-6. dB beam width: 65.64 deg

-10. dB beam width: Not Found

Left Sidelobe: -1.69 dB at -77.430 deg

Right Sidelobe: -4.81 dB at 177.989 deg

Far-field display setup

Span = 360.00001 deg, Center = 0.000 deg, #pts = 181

Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

deg

Elevation (deg)

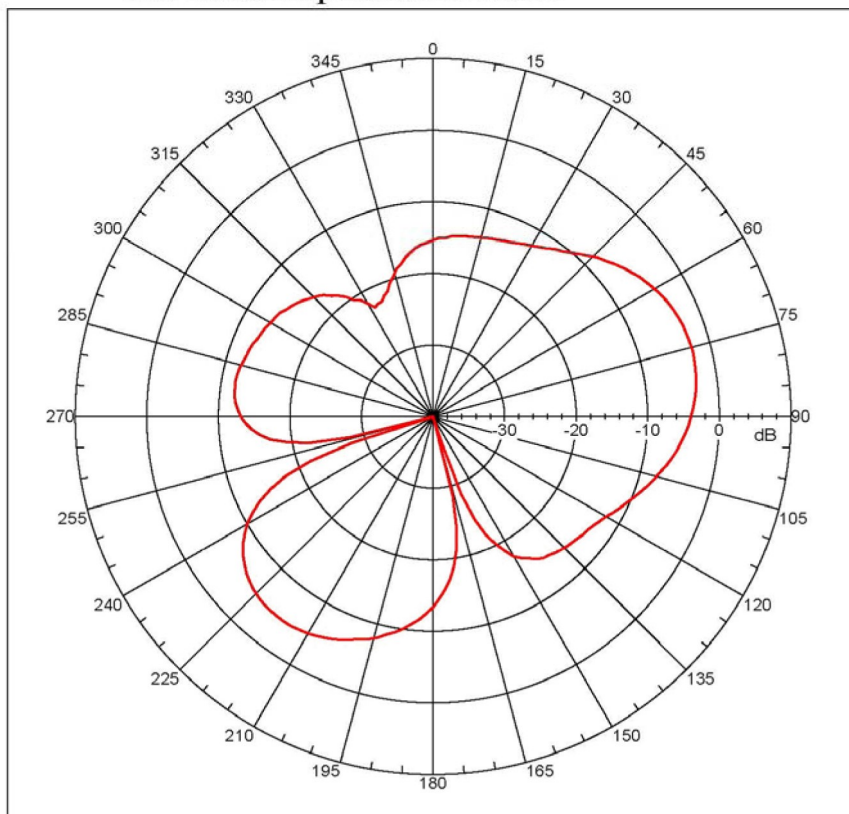
Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 12

Beam	Frequency	Azimuth	Elevation	Pol
3	0.900 GHz	Azimuth	Elevation	Single-pol

Test Report H960

Far-field amplitude of H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -2.61629 dBi
Max far-field (global) = -45.24596 dB, Max far-field (plot) = -45.24596 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 75.99999 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 11:26:45 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -10.584 dB

-3. dB beam width: 43.69 deg

-6. dB beam width: 63.97 deg

-10. dB beam width: 94.18 deg

Left Sidelobe: -9.35 dB at -79.441 deg

Right Sidelobe: Not Found

Far-field display setup

Span = 360.00001 deg, Center = 0.000 deg, #pts = 181

Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

deg

Elevation (deg)

Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 12

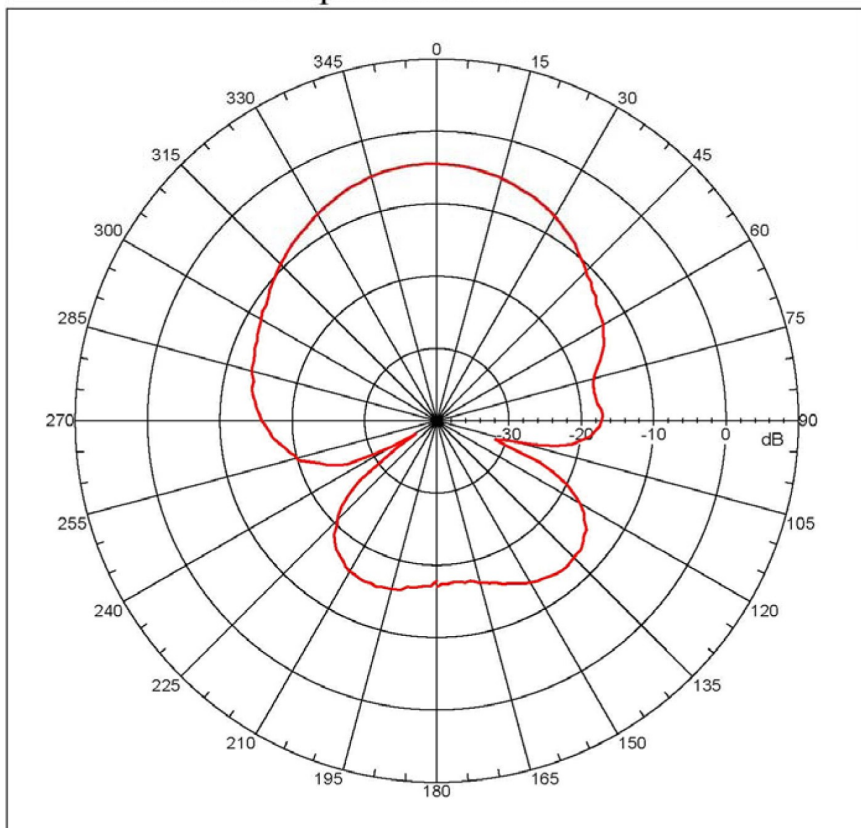
Beam	Frequency	Azimuth	Elevation	Pol
4	0.960 GHz	Azimuth	Elevation	Single-pol

GSM Rugged 'Puck' Antenna IP67



Test Report H1710

Far-field amplitude of H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -4.4025 dBi
Max far-field (global) = -49.59509 dB, Max far-field (plot) =
-49.59509 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -2.00001 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 11:26:45 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -12.481 dB
-3. dB beam width: 62.52 deg
-6. dB beam width: 94.30 deg
-10. dB beam width: 147.52 deg
Left Sidelobe: -11.20 dB at -155.866 deg
Right Sidelobe: -9.82 dB at 133.743 deg

Far-field display setup

Azimuth (deg)
Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

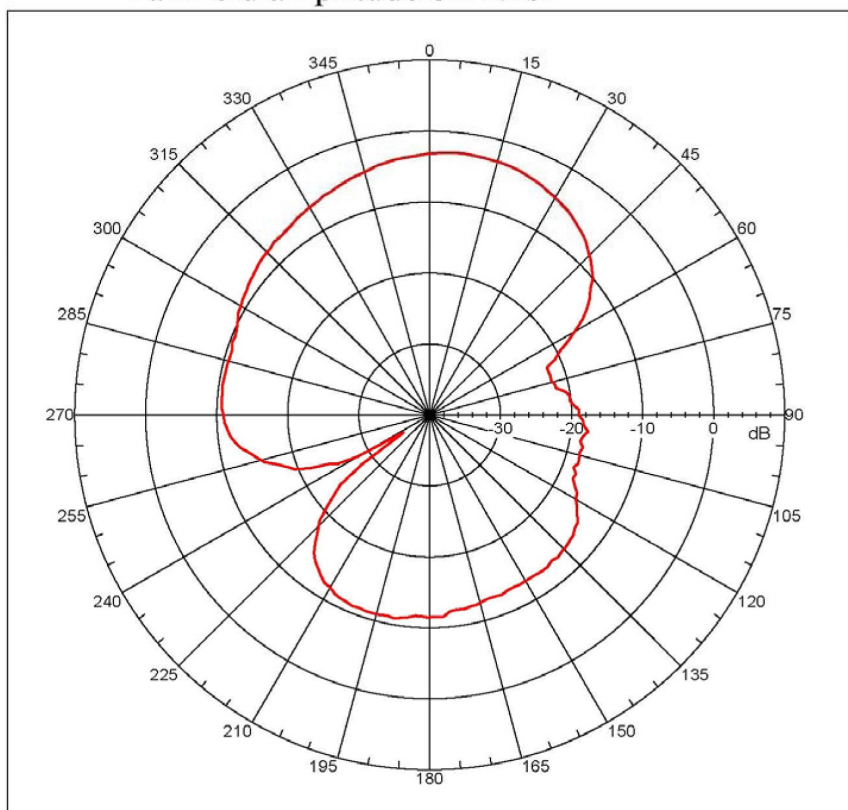
Elevation (deg)
Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 12

Beam	Frequency	Azimuth	Elevation	Pol
5	1.710 GHz	Azimuth	Elevation	Single-pol

Test Report H1800

Far-field amplitude of H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -2.88658 dBi
Max far-field (global) = -49.70862 dB, Max far-field (plot) =
-49.70862 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 7.99999 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 11:26:45 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -10.422 dB
-3. dB beam width: 63.96 deg
-6. dB beam width: 104.00 deg
-10. dB beam width: 155.72 deg
Left Sidelobe: -8.08 dB at -157.877 deg
Right Sidelobe: -17.22 dB at 83.464 deg

Far-field display setup

Azimuth (deg)
Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

Elevation (deg)
Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 12

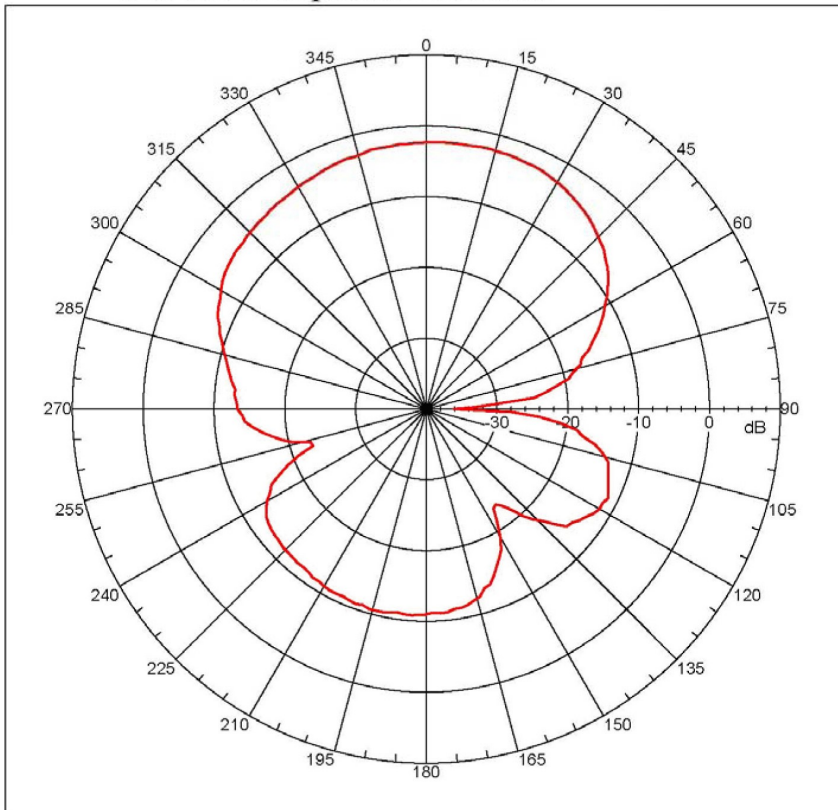
Beam	Frequency	Azimuth	Elevation	Pol
6	1.800 GHz	Azimuth	Elevation	Single-pol

GSM Rugged 'Puck' Antenna IP67



Test Report H1900

Far-field amplitude of H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -2.20998 dBi
Max far-field (global) = -49.24694 dB, Max far-field (plot) = -49.24694 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 11.99999 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 11:26:45 AM, Filetype: NSI-97

Far-field Cut Analysis:

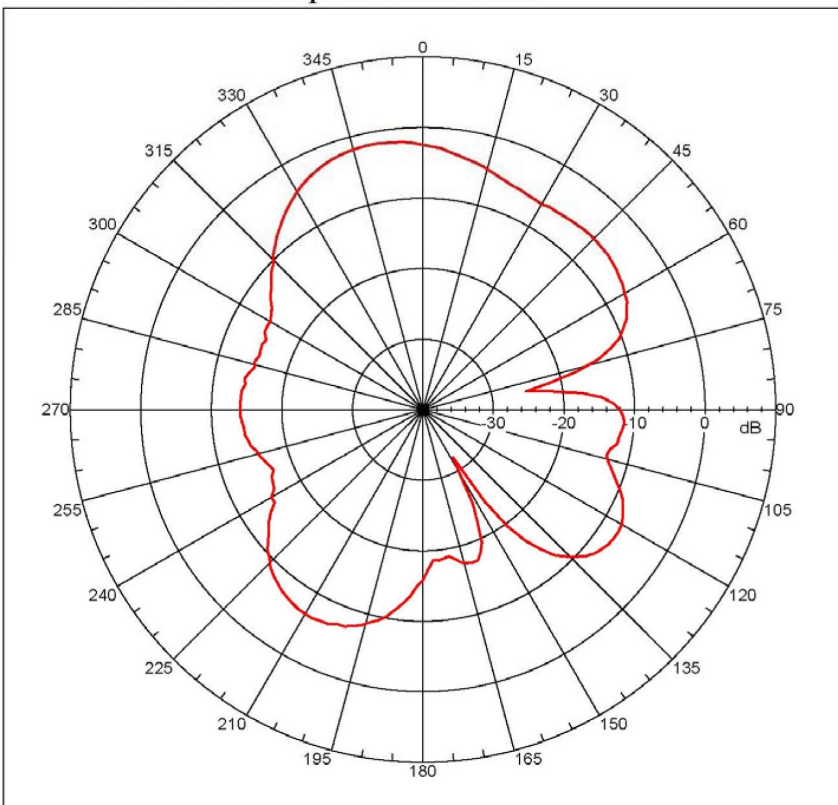
Avg value: -9.065 dB
-3. dB beam width: 94.99 deg
-6. dB beam width: 121.91 deg
-10. dB beam width: 145.78 deg
Left Sidelobe: -9.64 dB at -152.743 deg
Right Sidelobe: -9.18 dB at 117.654 deg
Far-field display setup
Azimuth (deg)
Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg
Elevation (deg)
Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 12

Beam	Frequency	Azimuth	Elevation	Pol
7	1.900 GHz	Azimuth	Elevation	Single-pol

Test Report H2100

Far-field amplitude of H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -1.74913 dBi
Max far-field (global) = -49.07503 dB, Max far-field (plot) = -49.07504 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -10.00001 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 11:26:45 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -9.256 dB
-3. dB beam width: 46.59 deg
-6. dB beam width: 104.01 deg
-10. dB beam width: 121.82 deg
Left Sidelobe: -12.63 dB at -79.441 deg
Right Sidelobe: -9.65 dB at 95.531 deg
Far-field display setup
Azimuth (deg)
Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg
Elevation (deg)
Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 12

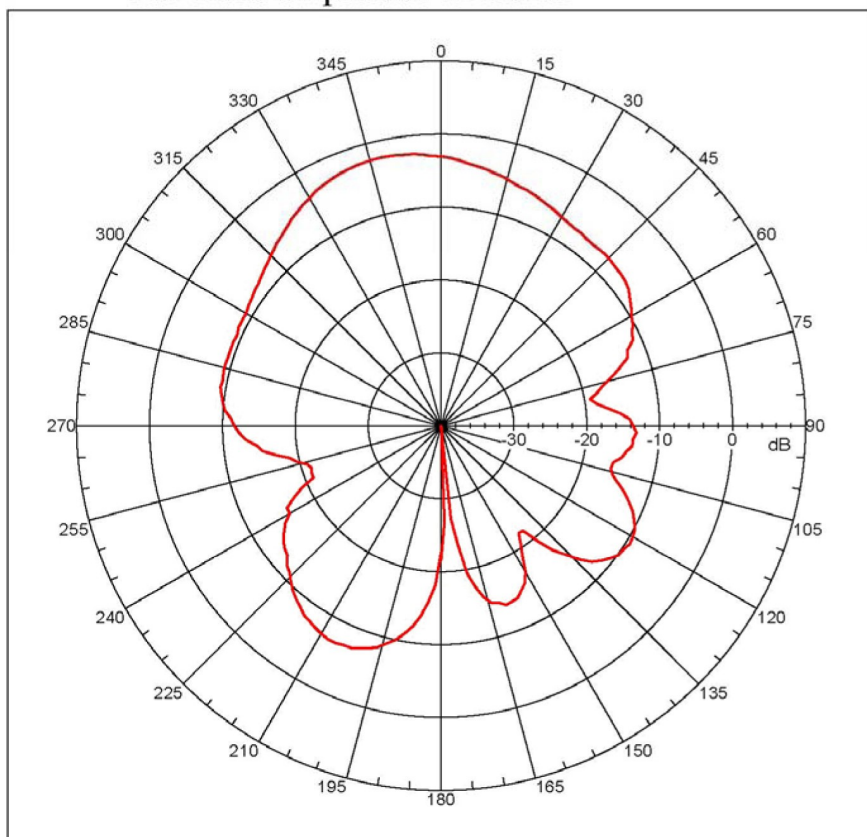
Beam	Frequency	Azimuth	Elevation	Pol
8	2.100 GHz	Azimuth	Elevation	Single-pol

GSM Rugged 'Puck' Antenna IP67



Test Report H2170

Far-field amplitude of H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -2.31766 dBi
Max far-field (global) = -49.84977 dB, Max far-field (plot) = -49.84977 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -14.00001 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 11:26:45 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -9.493 dB

-3. dB beam width: 54.18 deg

-6. dB beam width: 108.01 deg

-10. dB beam width: 160.73 deg

Left Sidelobe: -4.59 dB at -151.844 deg

Right Sidelobe: -10.83 dB at 93.520 deg

Far-field display setup

Azimuth (deg)

Span = 360.00001 deg, Center = 0.000 deg, #pts = 181

Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

deg

Elevation (deg)

Center = 0.000 deg, #pts = 1

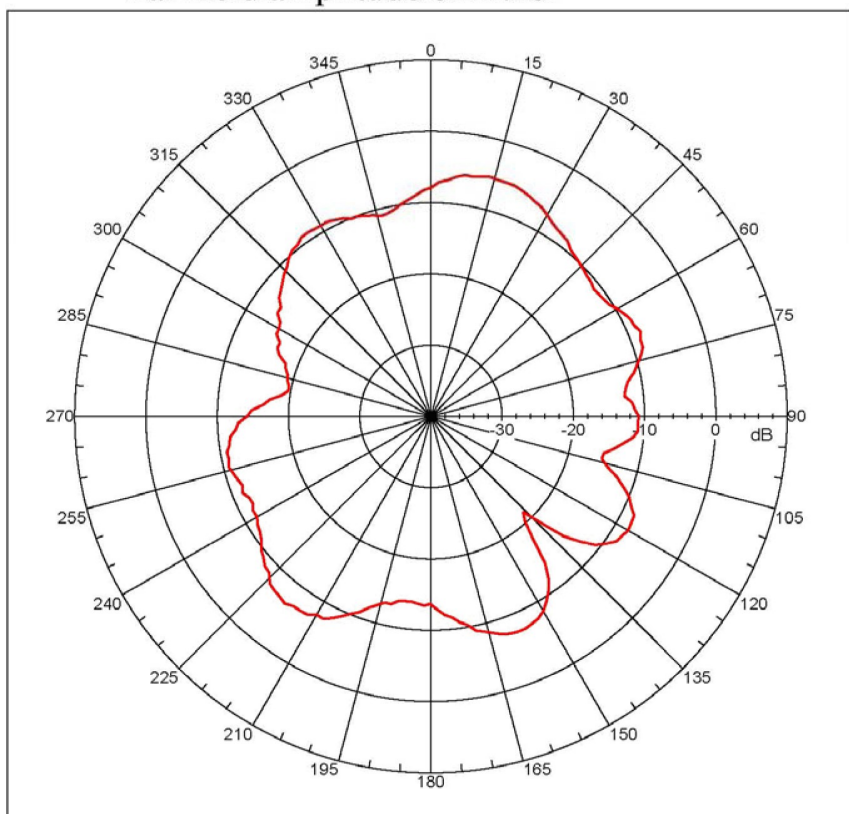
Selected beam(s) 1 of 12

Beam Frequency Azimuth Elevation Pol

9 2.170 GHz Azimuth Elevation Single-pol

Test Report H2400

Far-field amplitude of H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -5.40718 dBi
Max far-field (global) = -54.41481 dB, Max far-field (plot) = -54.41481 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 13.99999 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 11:26:45 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -10.360 dB

-3. dB beam width: 37.29 deg

-6. dB beam width: 125.89 deg

-10. dB beam width: 194.12 deg

Left Sidelobe: -3.66 dB at -27.151 deg

Right Sidelobe: -2.86 dB at 69.385 deg

Far-field display setup

Azimuth (deg)

Span = 360.00001 deg, Center = 0.000 deg, #pts = 181

Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

deg

Elevation (deg)

Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 12

Beam Frequency Azimuth Elevation Pol

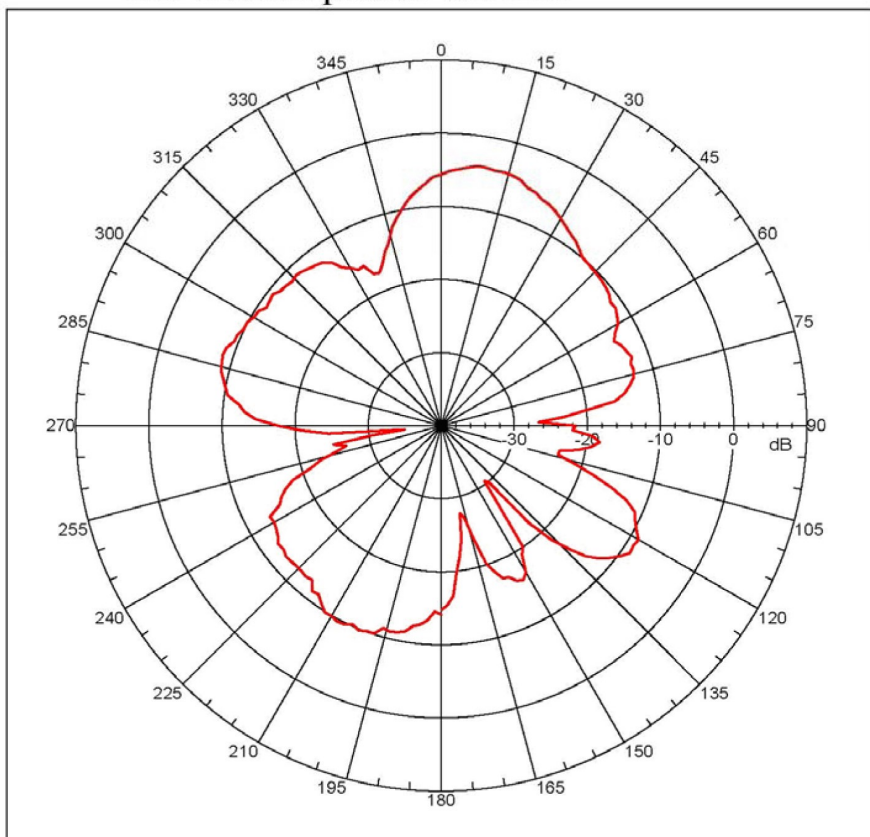
10 2.400 GHz Azimuth Elevation Single-pol

GSM Rugged 'Puck' Antenna IP67



Test Report H2500

Far-field amplitude of H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -4.16371 dBi
Max far-field (global) = -54.2997 dB, Max far-field (plot) = -54.2997 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 7.99999 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 11:26:45 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -12.131 dB
-3. dB beam width: 34.22 deg
-6. dB beam width: 54.02 deg
-10. dB beam width: 96.06 deg
Left Sidelobe: -11.54 dB at 25.140 deg
Right Sidelobe: -9.12 dB at 71.397 deg

Far-field display setup

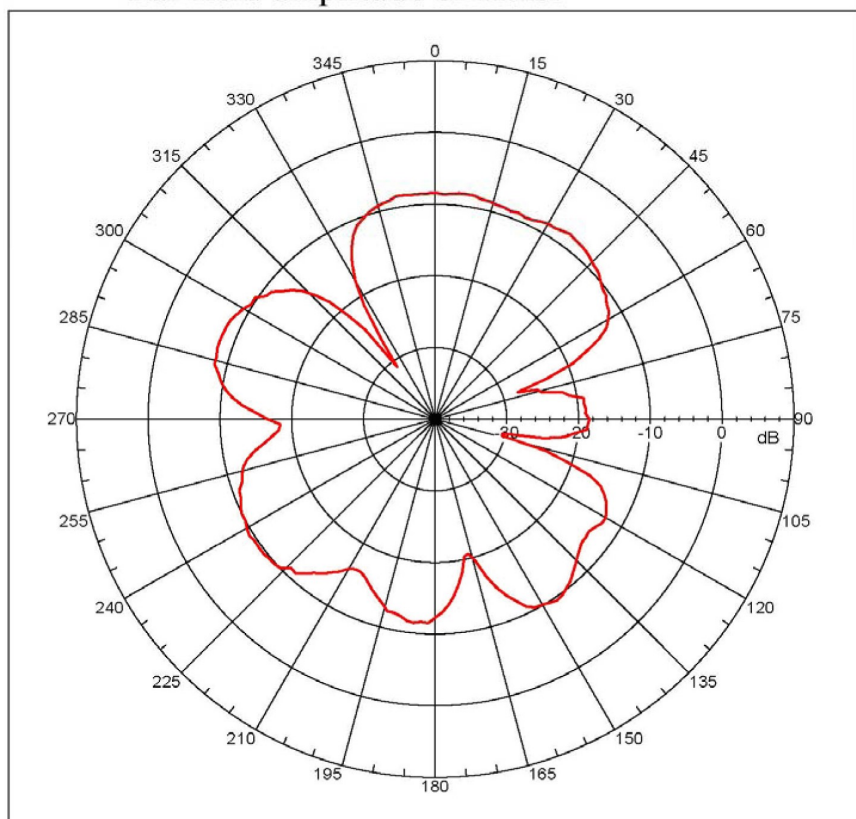
Azimuth (deg)
Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg

Elevation (deg)
Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 12
Beam Frequency Azimuth Elevation Pol
11 2.500 GHz Azimuth Elevation Single-pol

Test Report H2600

Far-field amplitude of H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -8.05056 dBi
Max far-field (global) = -58.37335 dB, Max far-field (plot) = -58.37337 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -70.00001 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 11:26:45 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -12.223 dB
-3. dB beam width: 30.60 deg
-6. dB beam width: 49.88 deg
-10. dB beam width: 49.88 deg
Left Sidelobe: -1.92 dB at 115.643 deg
Right Sidelobe: -0.40 dB at 9.050 deg

Far-field display setup

Azimuth (deg)
Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg

Elevation (deg)
Center = 0.000 deg, #pts = 1

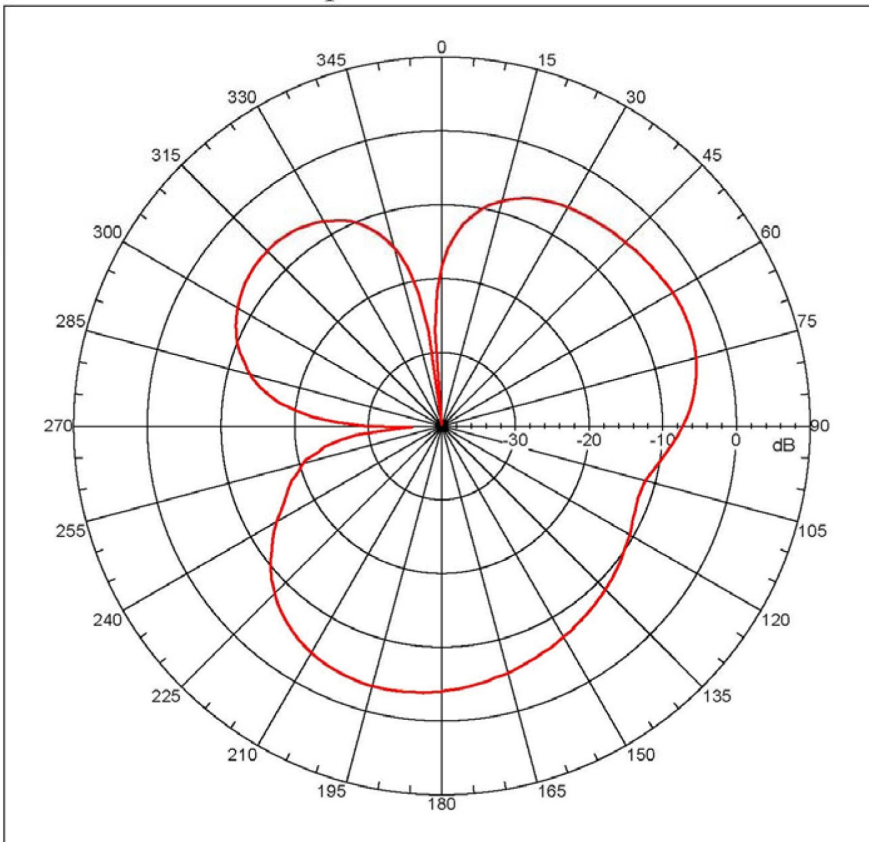
Selected beam(s) 1 of 12
Beam Frequency Azimuth Elevation Pol
12 2.600 GHz Azimuth Elevation Single-pol

GSM Rugged 'Puck' Antenna IP67



Test Report E824

Far-field amplitude of E.nsi



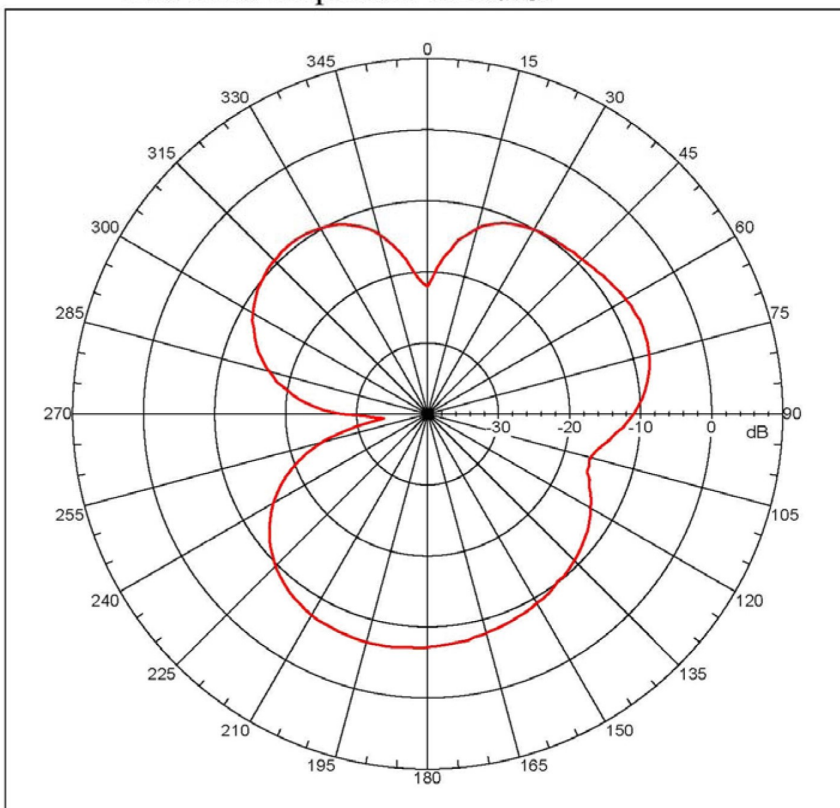
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -3.49476 dBi
Max far-field (global) = -46.4941 dB, Max far-field (plot) = -46.49412 dB
Normalization: Reference, Network offset = 0.000 dB
Mpeak at: -168.000 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
Measurement date/time: 5/9/2013 1:10:59 PM, Filetype: NSI-97
Far-field Cut Analysis:
Avg value: -8.073 dB
-3. dB beam width: Not Found
-6. dB beam width: Not Found
-10. dB beam width: Not Found
Left Sidelobe: Not Found
Right Sidelobe: -2.98 dB at -43.240 deg
Far-field display setup
Azimuth (deg)
Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg
Elevation (deg)
Center = 0.000 deg, #pts = 1
Selected beam(s) 1 of 12
Beam Frequency Azimuth Elevation Pol

1 0.824 GHz Azimuth Elevation Single-pol

Test Report E850

Far-field amplitude of E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -6.74011 dBi
Max far-field (global) = -47.99697 dB, Max far-field (plot) = -47.99699 dB
Normalization: Reference, Network offset = 0.000 dB
Mpeak at: -166.000 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
Measurement date/time: 5/9/2013 1:10:59 PM, Filetype: NSI-97
Far-field Cut Analysis:
Avg value: -11.130 dB
-3. dB beam width: Not Found
-6. dB beam width: Not Found
-10. dB beam width: Not Found
Left Sidelobe: Not Found
Right Sidelobe: -2.54 dB at -37.207 deg
Far-field display setup
Azimuth (deg)
Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg
Elevation (deg)
Center = 0.000 deg, #pts = 1
Selected beam(s) 1 of 12
Beam Frequency Azimuth Elevation Pol

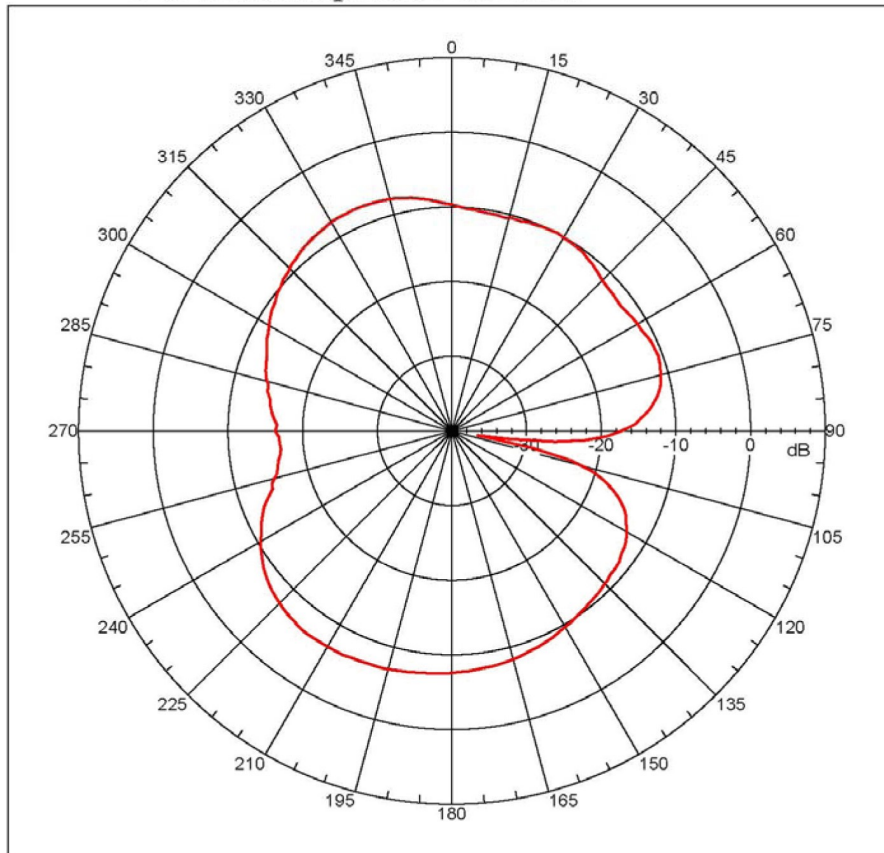
2 0.850 GHz Azimuth Elevation Single-pol

GSM Rugged 'Puck' Antenna IP67



Test Report E900

Far-field amplitude of E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -6.62872 dBi
Max far-field (global) = -48.1884 dB, Max far-field (plot) = -48.1884 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -144.000 deg, Vpeak at: 0.000 deg
Plot centering: on

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 1:10:59 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -19.501 dB

-3. dB beam width: Not Found

-6. dB beam width: Not Found

-10. dB beam width: Not Found

Left Sidelobe: Not Found

Right Sidelobe: -1.03 dB at -27.151 deg

Far-field display setup

Span = 360.00001 deg, Center = 0.000 deg, #pts = 181

Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg

Elevation (deg)

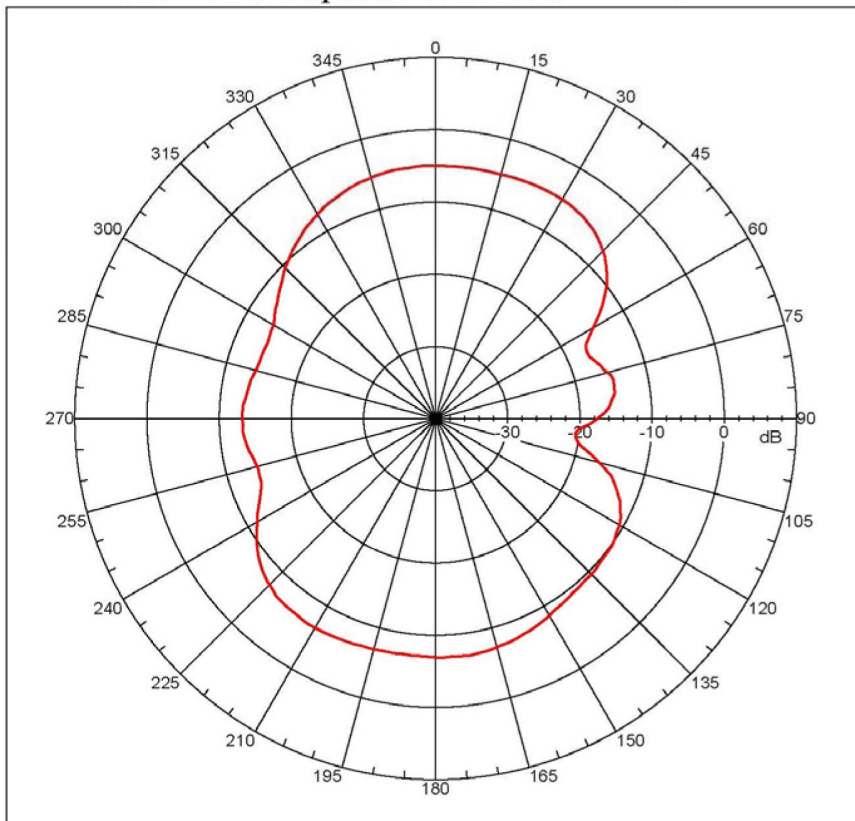
Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 12

Beam	Frequency	Azimuth	Elevation	Pol
3	0.900 GHz	Azimuth	Elevation	Single-pol

Test Report E960

Far-field amplitude of E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -4.85416 dBi
Max far-field (global) = -47.48383 dB, Max far-field (plot) = -47.48383 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 23.99999 deg, Vpeak at: 0.000 deg
Plot centering: on

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 1:10:59 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -9.200 dB

-3. dB beam width: 80.40 deg

-6. dB beam width: 100.55 deg

-10. dB beam width: Not Found

Left Sidelobe: -8.34 dB at -89.497 deg

Right Sidelobe: -9.93 dB at 79.441 deg

Far-field display setup

Span = 360.00001 deg, Center = 0.000 deg, #pts = 181

Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg

Elevation (deg)

Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 12

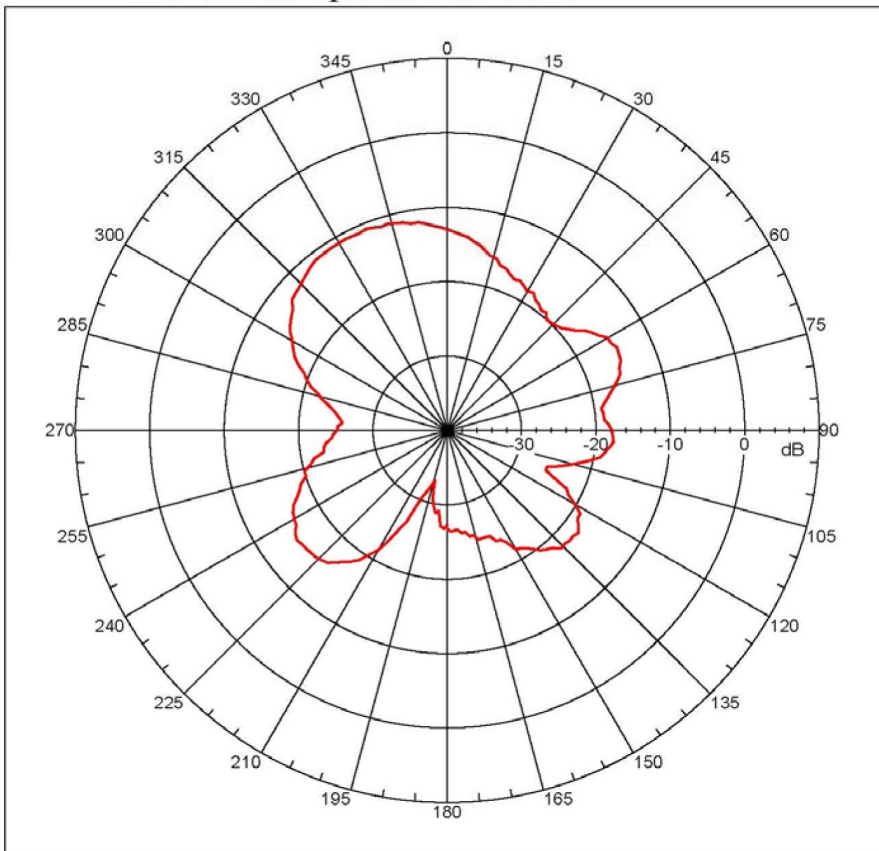
Beam	Frequency	Azimuth	Elevation	Pol
4	0.960 GHz	Azimuth	Elevation	Single-pol

GSM Rugged 'Puck' Antenna IP67



Test Report E1710

Far-field amplitude of E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -10.82067 dBi
Max far-field (global) = -56.01326 dB, Max far-field (plot) =
-56.01326 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -22.00001 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 1:10:59 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -17.657 dB
-3. dB beam width: 58.67 deg
-6. dB beam width: 82.47 deg
-10. dB beam width: 175.81 deg
Left Sidelobe: -4.18 dB at -125.698 deg
Right Sidelobe: -3.76 dB at 65.363 deg

Far-field display setup

Span = 360.00001 deg, Center = 0.000 deg, #pts = 181

Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

Elevation (deg)

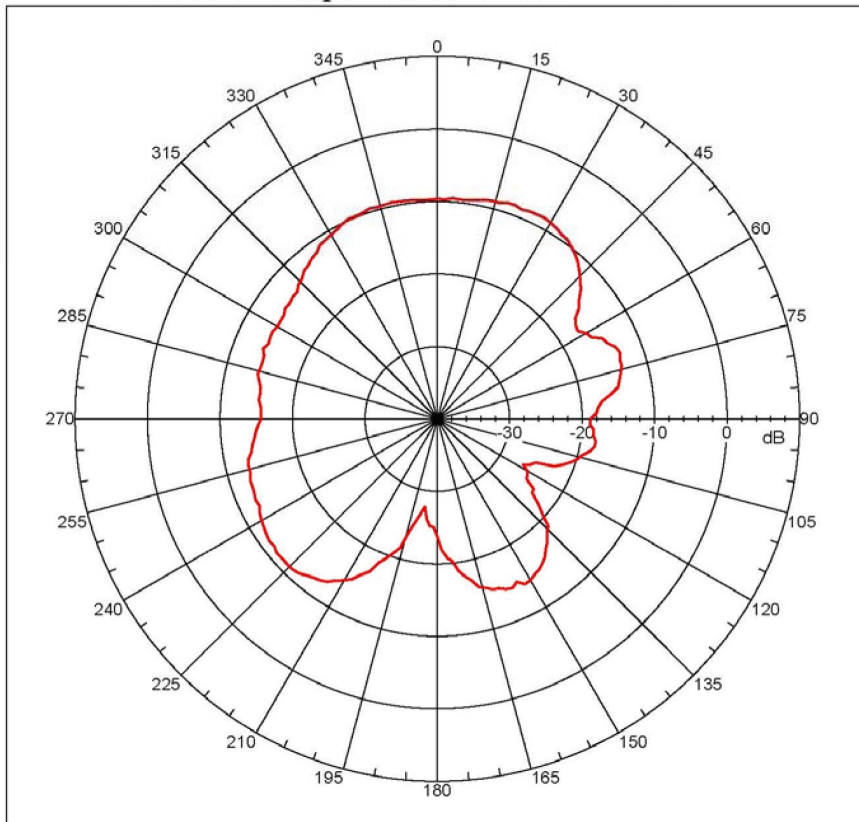
Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 12

Beam	Frequency	Azimuth	Elevation	Pol
5	1.710 GHz	Azimuth	Elevation	Single-pol

Test Report E1800

Far-field amplitude of E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -0.56537 dBi
Max far-field (global) = -55.38741 dB, Max far-field (plot) =
-55.38742 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 27.99999 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 1:10:59 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -13.889 dB
-3. dB beam width: 79.57 deg
-6. dB beam width: 121.04 deg
-10. dB beam width: 248.62 deg
Left Sidelobe: -4.27 dB at -107.598 deg
Right Sidelobe: -4.62 dB at 71.397 deg

Far-field display setup

Span = 360.00001 deg, Center = 0.000 deg, #pts = 181

Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

Elevation (deg)

Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 12

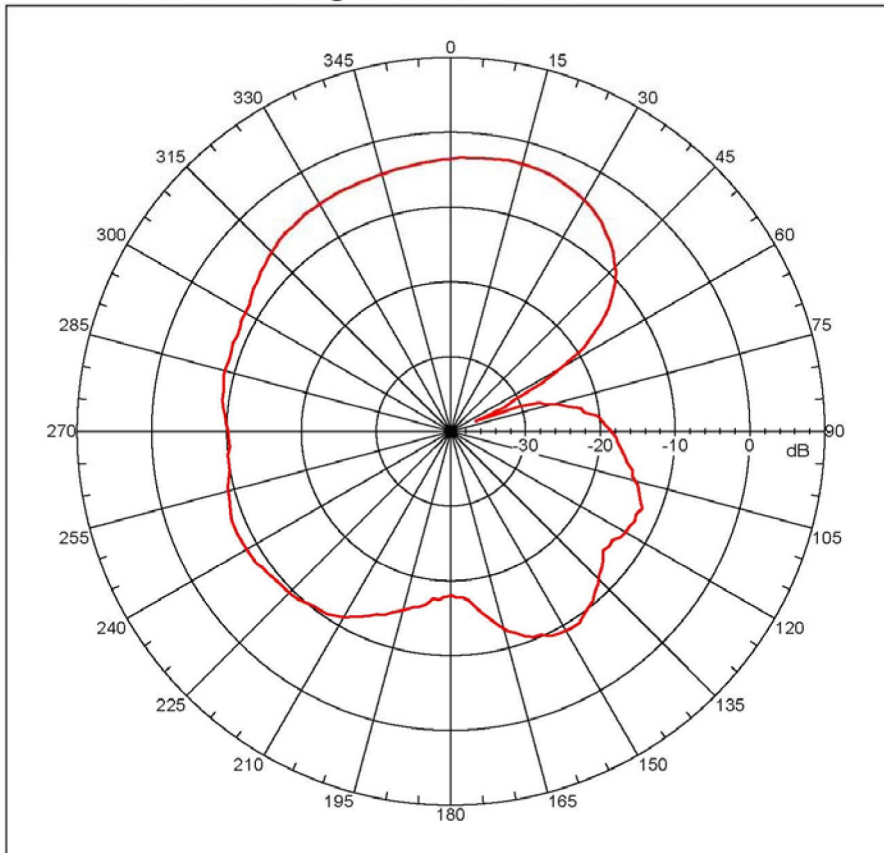
Beam	Frequency	Azimuth	Elevation	Pol
6	1.800 GHz	Azimuth	Elevation	Single-pol

GSM Rugged 'Puck' Antenna IP67



Test Report E1900

Far-field amplitude of E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -2.92528 dB
Max far-field (global) = -49.96224 dB, Max far-field (plot) = -49.96225 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 11.99999 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 1:10:59 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -9.368 dB

-3. dB beam width: 80.63 deg

-6. dB beam width: 123.21 deg

-10. dB beam width: 208.63 deg

Left Sidelobe: -5.41 dB at -115.643 deg

Right Sidelobe: -9.45 dB at 113.631 deg

Far-field display setup

Azimuth (deg)

Span = 360.00001 deg, Center = 0.000 deg, #pts = 181

Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

Elevation (deg)

Center = 0.000 deg, #pts = 1

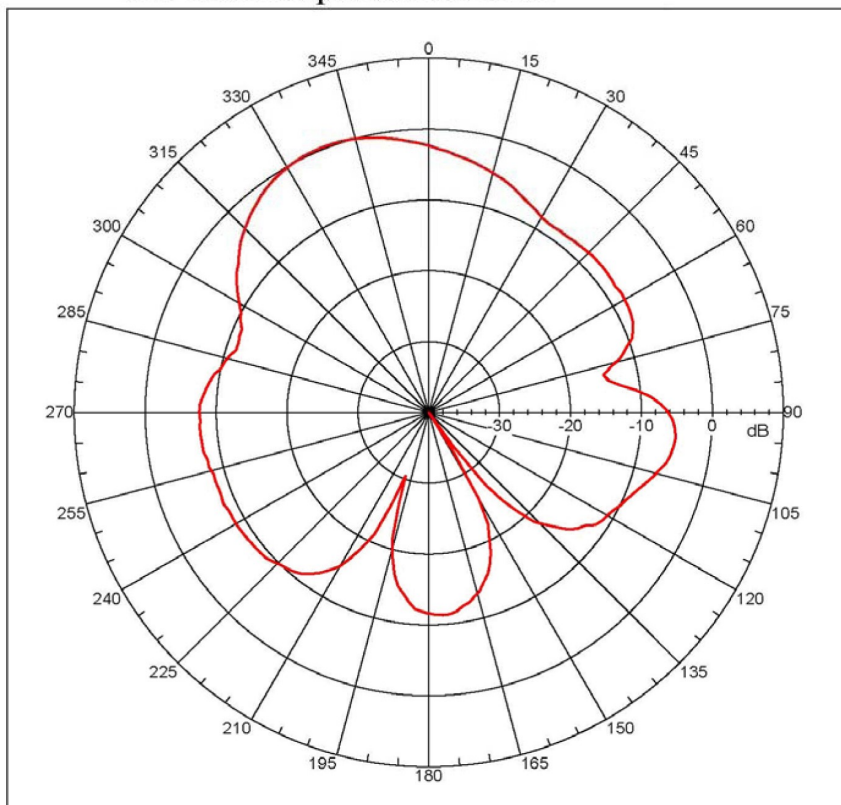
Selected beam(s) 1 of 12

Beam Frequency Azimuth Elevation Pol

7 1.900 GHz Azimuth Elevation Single-pol

Test Report E2100

Far-field amplitude of E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 0.29872 dB
Max far-field (global) = -47.02798 dB, Max far-field (plot) = -47.02798 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -22.00001 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 1:10:59 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -7.897 dB

-3. dB beam width: 44.62 deg

-6. dB beam width: 70.54 deg

-10. dB beam width: 132.27 deg

Left Sidelobe: -7.94 dB at -89.497 deg

Right Sidelobe: -5.32 dB at 97.542 deg

Far-field display setup

Azimuth (deg)

Span = 360.00001 deg, Center = 0.000 deg, #pts = 181

Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

Elevation (deg)

Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 12

Beam Frequency Azimuth Elevation Pol

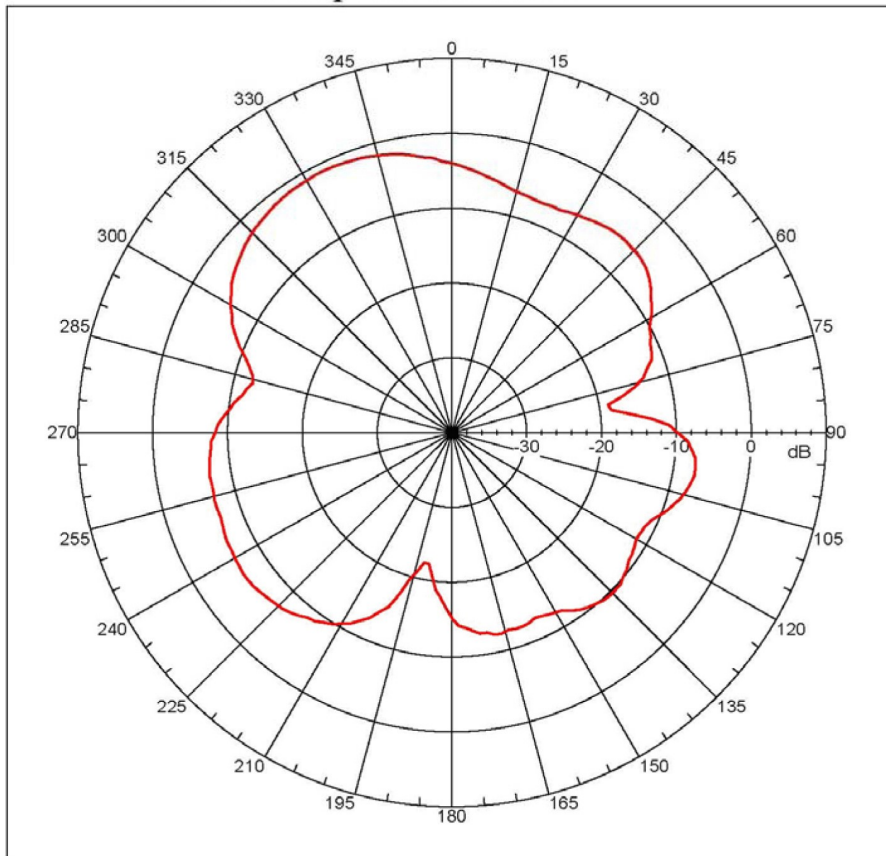
8 2.100 GHz Azimuth Elevation Single-pol

GSM Rugged 'Puck' Antenna IP67



Test Report E2170

Far-field amplitude of E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -1.04684 dBi
Max far-field (global) = -48.57895 dB, Max far-field (plot) =
-48.57896 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -28.00001 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 1:10:59 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -7.645 dB

-3. dB beam width: 54.68 deg

-6. dB beam width: 117.19 deg

-10. dB beam width: 138.26 deg

Left Sidelobe: -6.05 dB at -99.552 deg

Right Sidelobe: -4.39 dB at 43.240 deg

Far-field display setup

Azimuth (deg)

Span = 360.00001 deg, Center = 0.000 deg, #pts = 181

Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

deg

Elevation (deg)

Center = 0.000 deg, #pts = 1

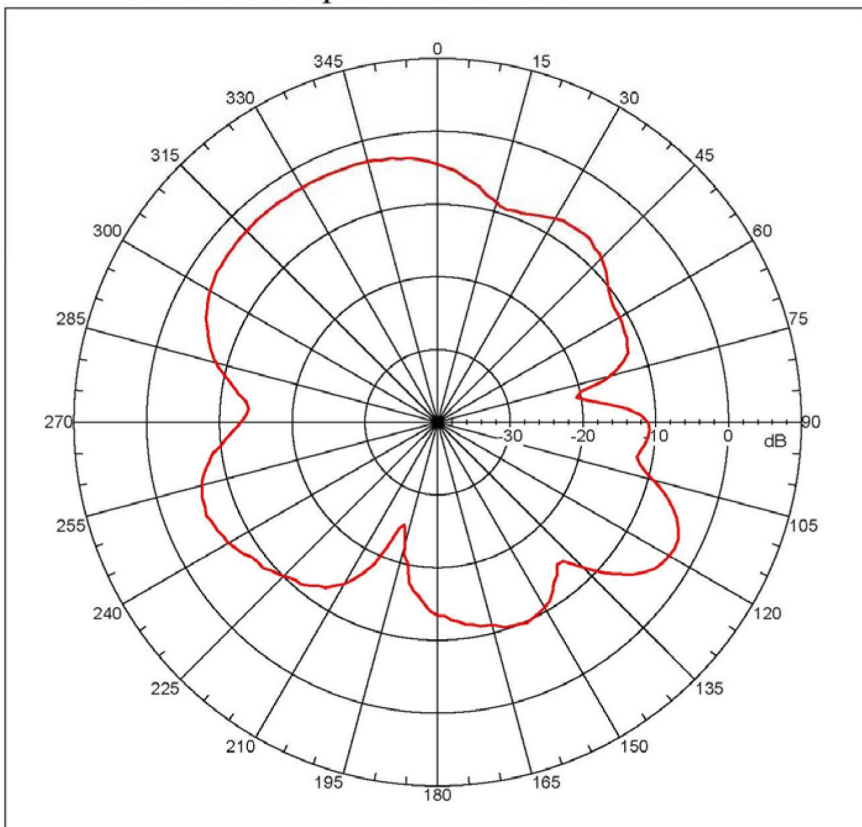
Selected beam(s) 1 of 12

Beam Frequency Azimuth Elevation Pol

9 2.170 GHz Azimuth Elevation Single-pol

Test Report E2400

Far-field amplitude of E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -2.70625 dBi
Max far-field (global) = -51.71388 dB, Max far-field (plot) =
-51.7139 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -36.00001 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 1:10:59 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -8.107 dB

-3. dB beam width: 72.94 deg

-6. dB beam width: 90.78 deg

-10. dB beam width: 154.52 deg

Left Sidelobe: -3.01 dB at -111.620 deg

Right Sidelobe: -4.66 dB at 33.184 deg

Far-field display setup

Azimuth (deg)

Span = 360.00001 deg, Center = 0.000 deg, #pts = 181

Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

deg

Elevation (deg)

Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 12

Beam Frequency Azimuth Elevation Pol

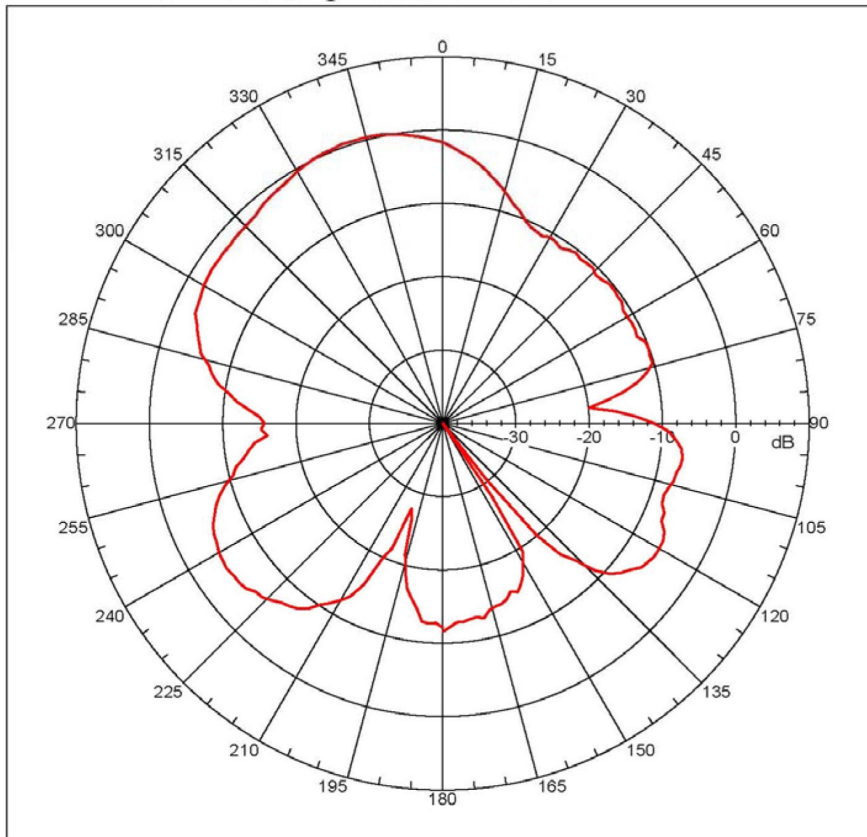
10 2.400 GHz Azimuth Elevation Single-pol

GSM Rugged 'Puck' Antenna IP67



Test Report E2500

Far-field amplitude of E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 0.45901 dBi
Max far-field (global) = -49.67698 dB, Max far-field (plot) =
-49.67698 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -20.00001 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 1:10:59 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -7.364 dB

-3. dB beam width: 63.89 deg

-6. dB beam width: 84.82 deg

-10. dB beam width: 102.12 deg

Left Sidelobe: -4.95 dB at -123.687 deg

Right Sidelobe: -10.56 dB at 71.397 deg

Far-field display setup

Azimuth (deg)

Span = 360.00001 deg, Center = 0.000 deg, #pts = 181

Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

deg

Elevation (deg)

Center = 0.000 deg, #pts = 1

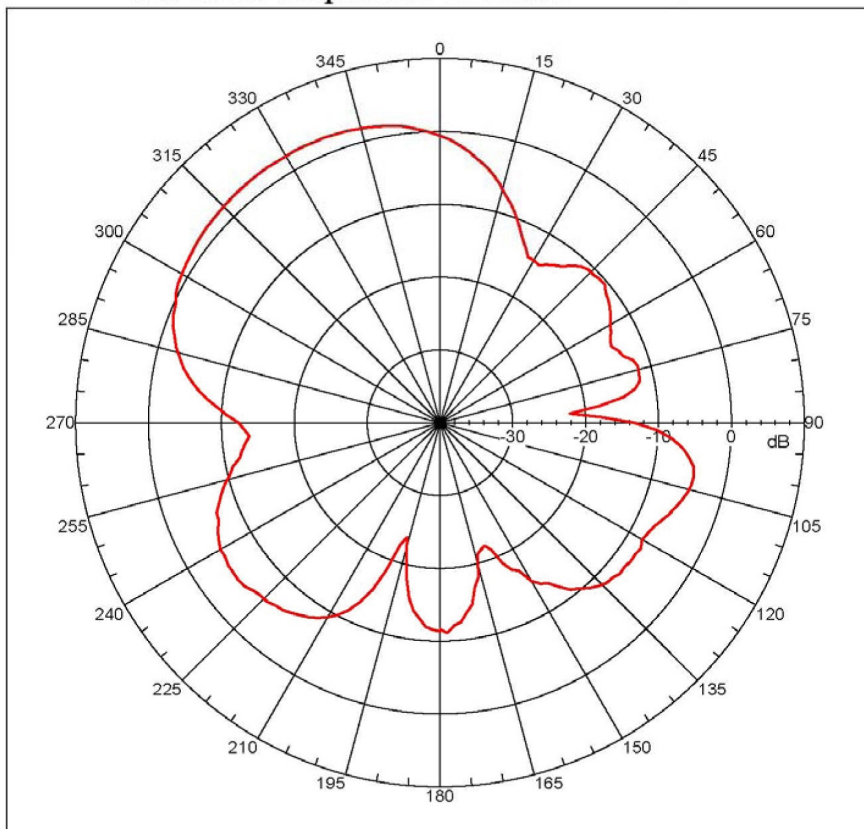
Selected beam(s) 1 of 12

Beam Frequency Azimuth Elevation Pol

11 2.500 GHz Azimuth Elevation Single-pol

Test Report E2600

Far-field amplitude of E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 2.33806 dBi
Max far-field (global) = -47.97873 dB, Max far-field (plot) =
-47.97873 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -20.00001 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20

Measurement date/time: 5/9/2013 1:10:59 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -5.878 dB

-3. dB beam width: 69.09 deg

-6. dB beam width: 86.26 deg

-10. dB beam width: 100.88 deg

Left Sidelobe: -7.55 dB at -119.665 deg

Right Sidelobe: -12.82 dB at 51.285 deg

Far-field display setup

Azimuth (deg)

Span = 360.00001 deg, Center = 0.000 deg, #pts = 181

Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

deg

Elevation (deg)

Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 12

Beam Frequency Azimuth Elevation Pol

12 2.600 GHz Azimuth Elevation Single-pol

GSM Rugged 'Puck' Antenna IP67



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

RF Solutions Ltd

William Alexander House, William Way, Burgess Hill, West Sussex, RH15 9AG
Sales: +44(0)1444 227 910 Tech Support: +44(0)1444 227909



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[RF Solutions:](#)

[ANT-GSMPUKS-IP67](#)