

4G LTE GSM 'Puck' Antenna

- Low Profile Package
- World-Wide Use
 - 700 - 960MHz
 - 1710 - 2170MHz
 - 2600– 2700MHz
- 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.

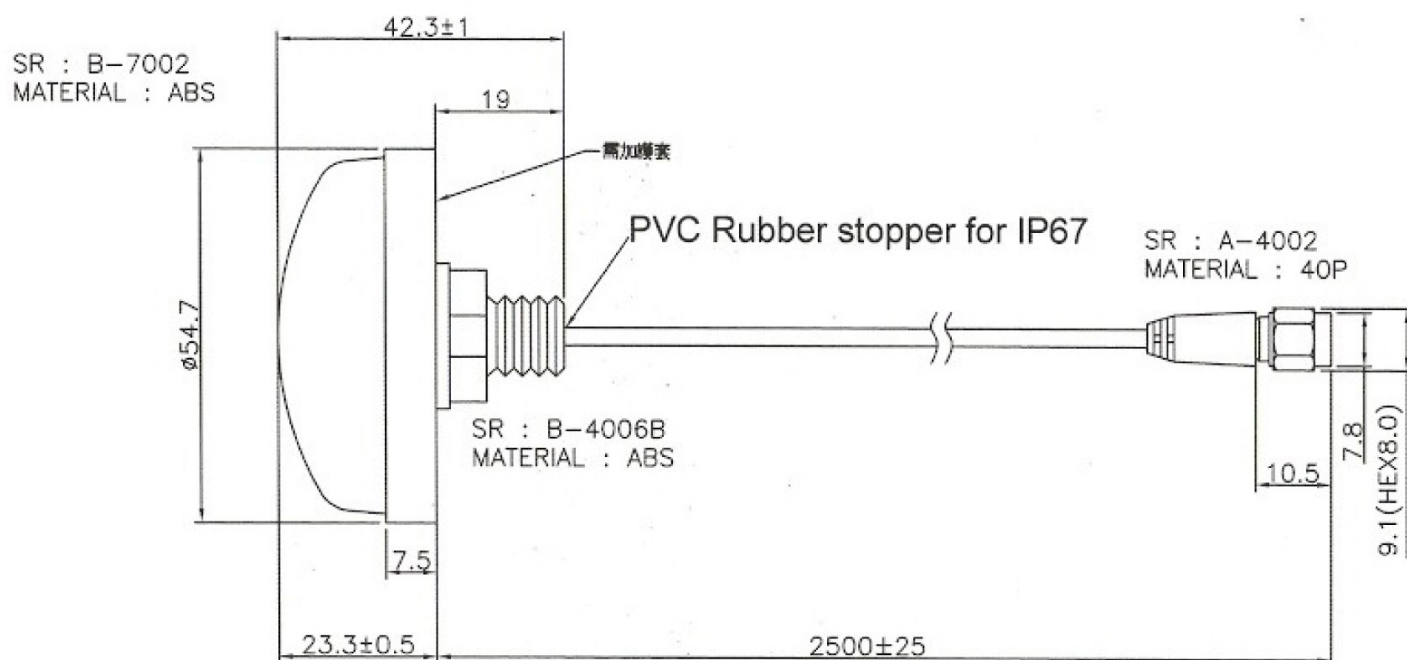
Part No	Description	Cable Length	Connector
ANT-GSMPIUKS-IP67	GSM QuadBand Puck Antenna	3metres	SMA (M)

GSM Rugged 'Puck' Antenna IP67

Product Images



Mechanical Data

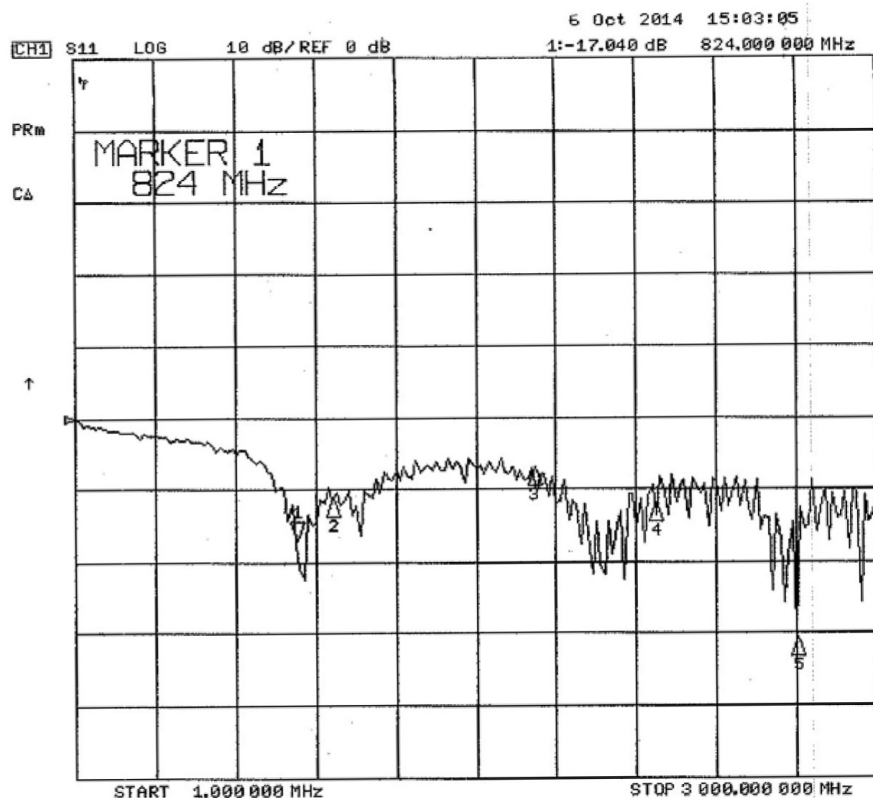


GSM Rugged 'Puck' Antenna IP67



VSWR & Return Loss

4G-04A PUK ANTENNA 700-2700MHz



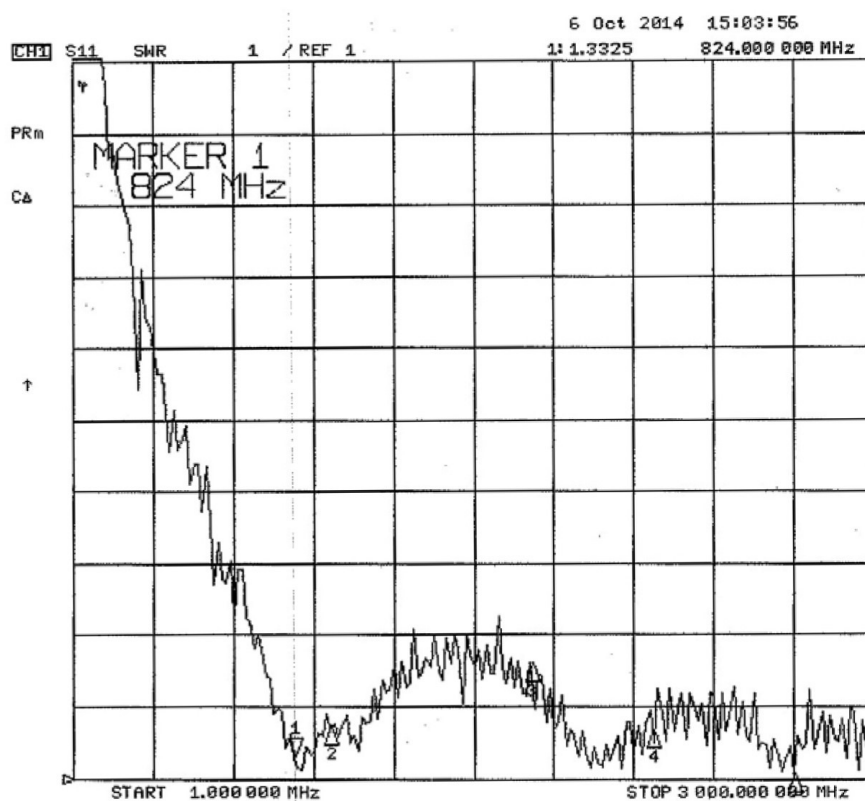
CH1 Markers

2:-11.250 dB
960.000 MHz

3:-7.0364 dB
1.71000 GHz

4:-12.022 dB
2.17000 GHz

5:-30.769 dB
2.70000 GHz



CH1 Markers

2: 1.7271
960.000 MHz

3: 2.6019
1.71000 GHz

4: 1.6606
2.17000 GHz

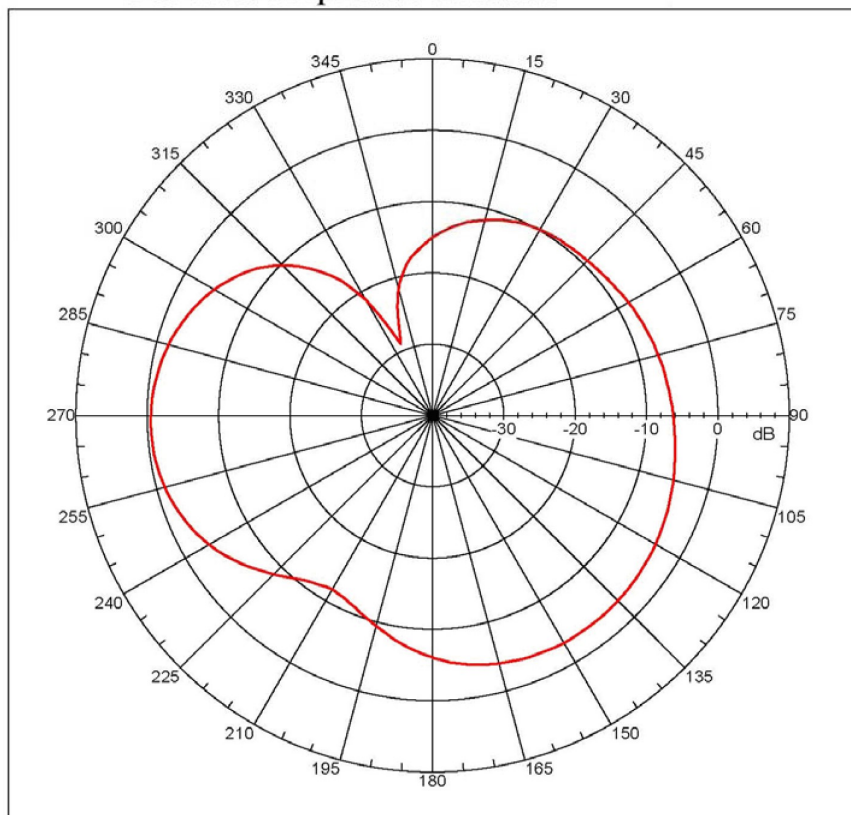
5: 1.0518
2.70000 GHz

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)

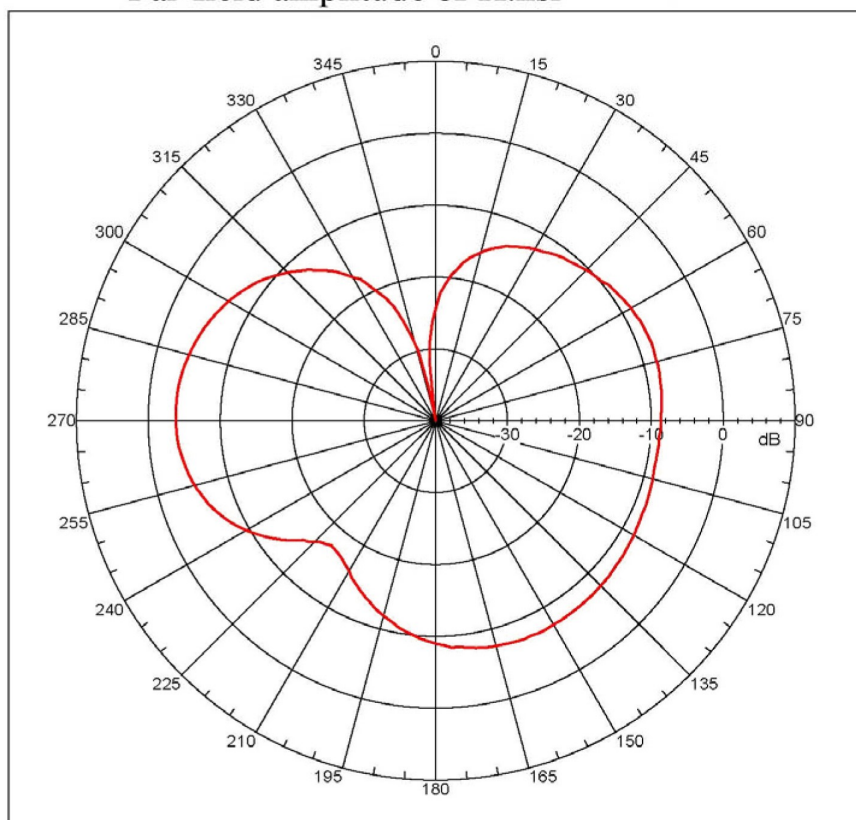
Center = 0.000 deg, #pts = 1

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

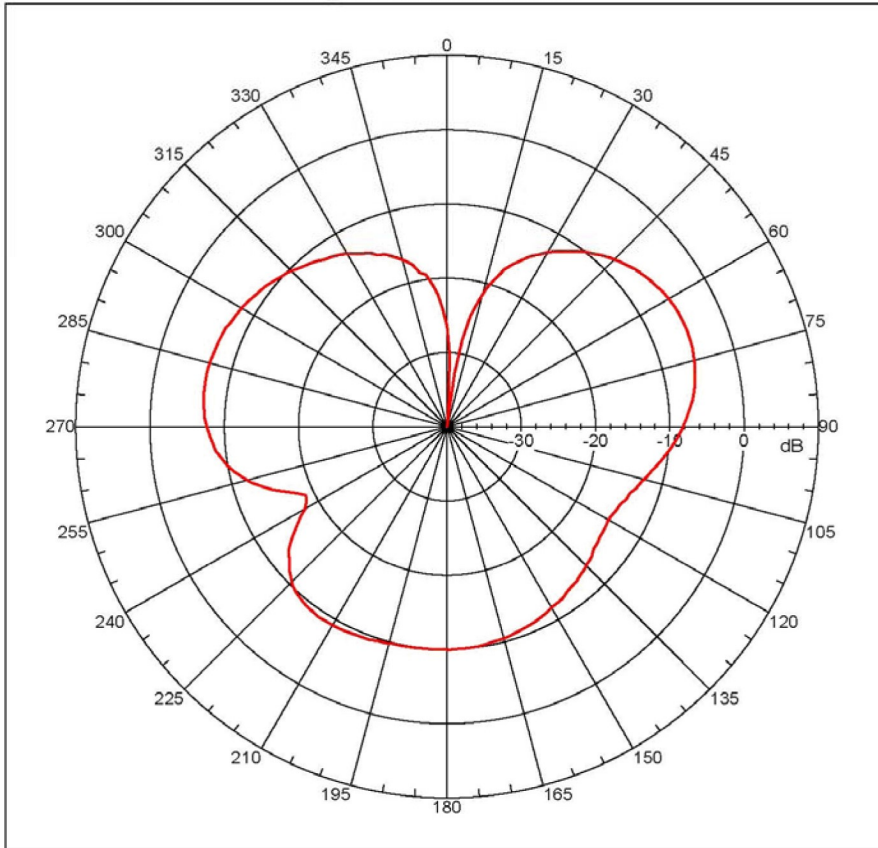
Beam	Frequency	Azimuth	Elevation	Pol
2	0.850 GHz	Azimuth	Elevation	Single-pol

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

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)

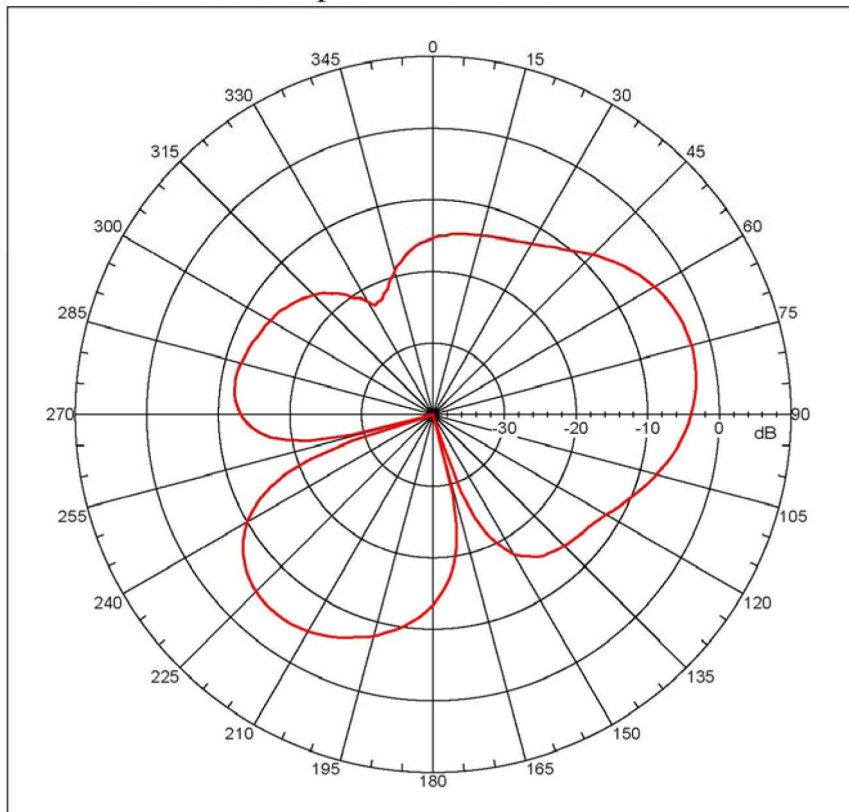
Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 12

Beam	Frequency	Azimuth	Elevation	Pol
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: 75.9999 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: -10.584 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

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

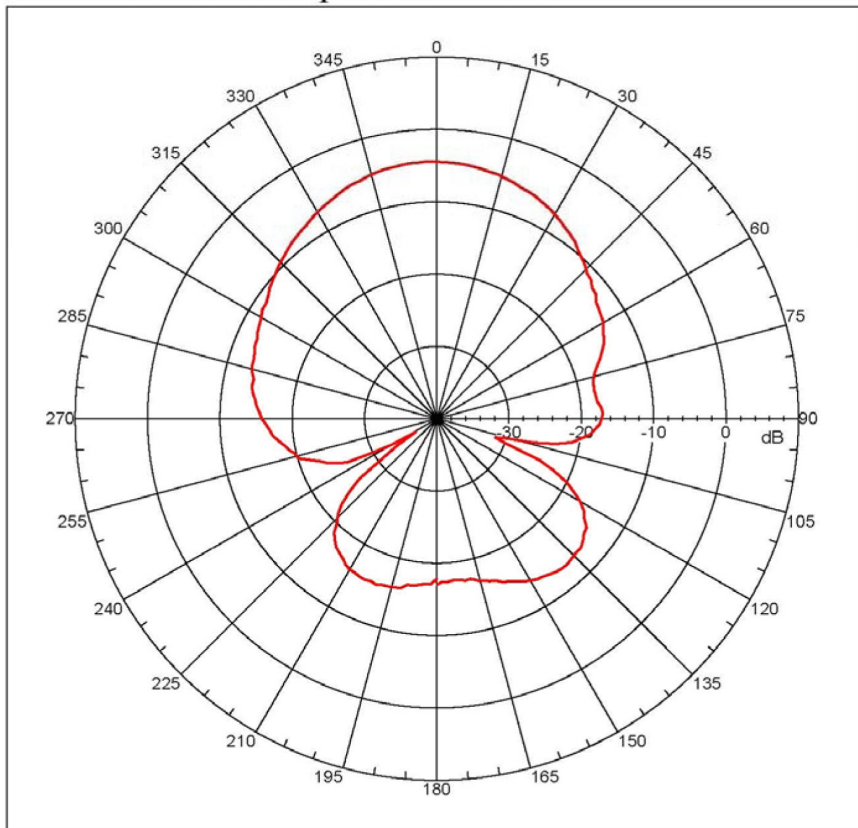
Beam	Frequency	Azimuth	Elevation	Pol
4	0.960 GHz	Azimuth	Elevation	Single-pol

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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

deg

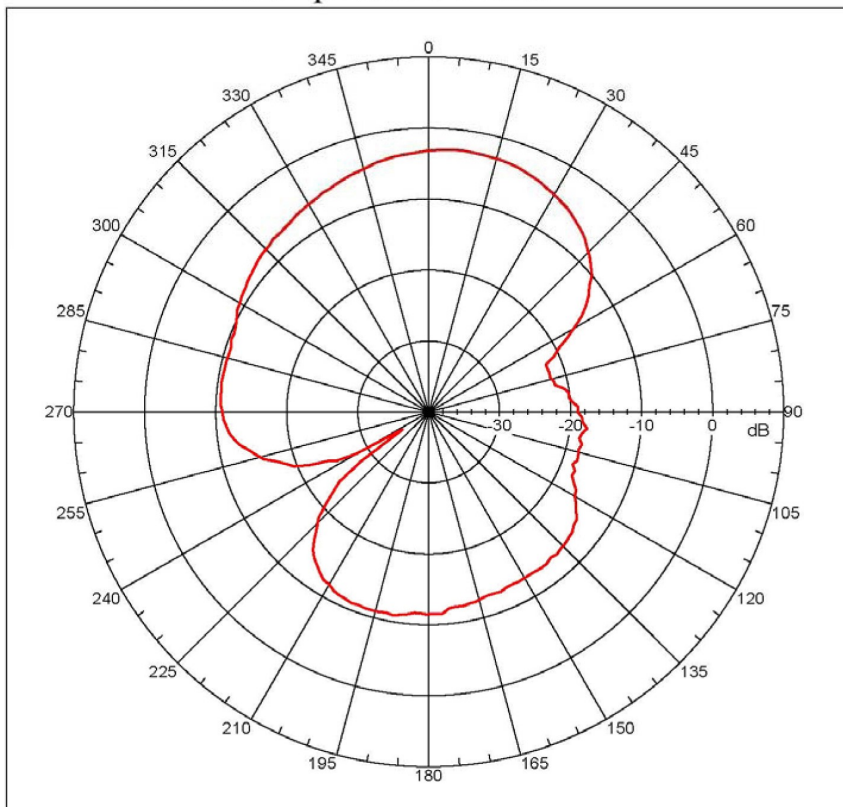
Elevation (deg)
Center = 0.000 deg, #pts = 1

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

deg

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

Selected beam(s) 1 of 12

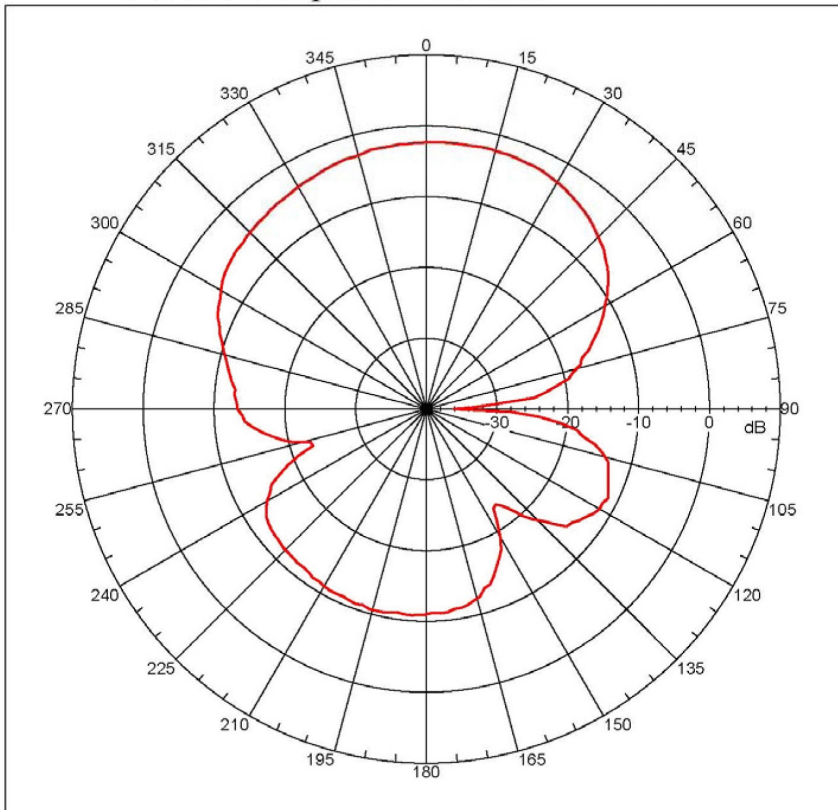
Beam	Frequency	Azimuth	Elevation	Pol
6	1.800 GHz	Azimuth	Elevation	Single-pol

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 dB
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

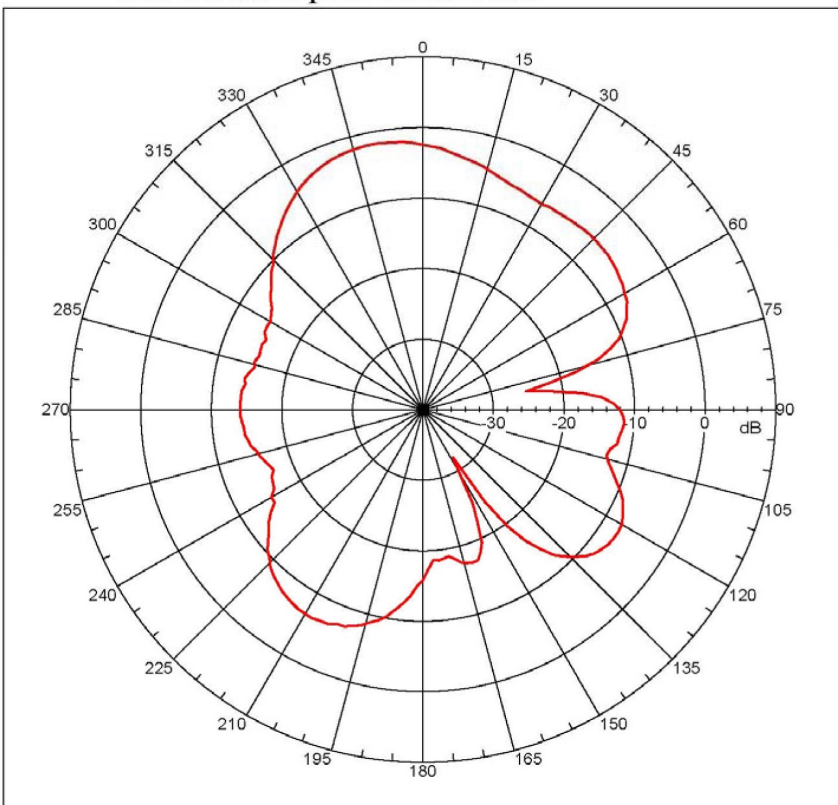
Measurement date/time: 5/9/2013 11:26:45 AM, Filetype: NSI-97

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 dB
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

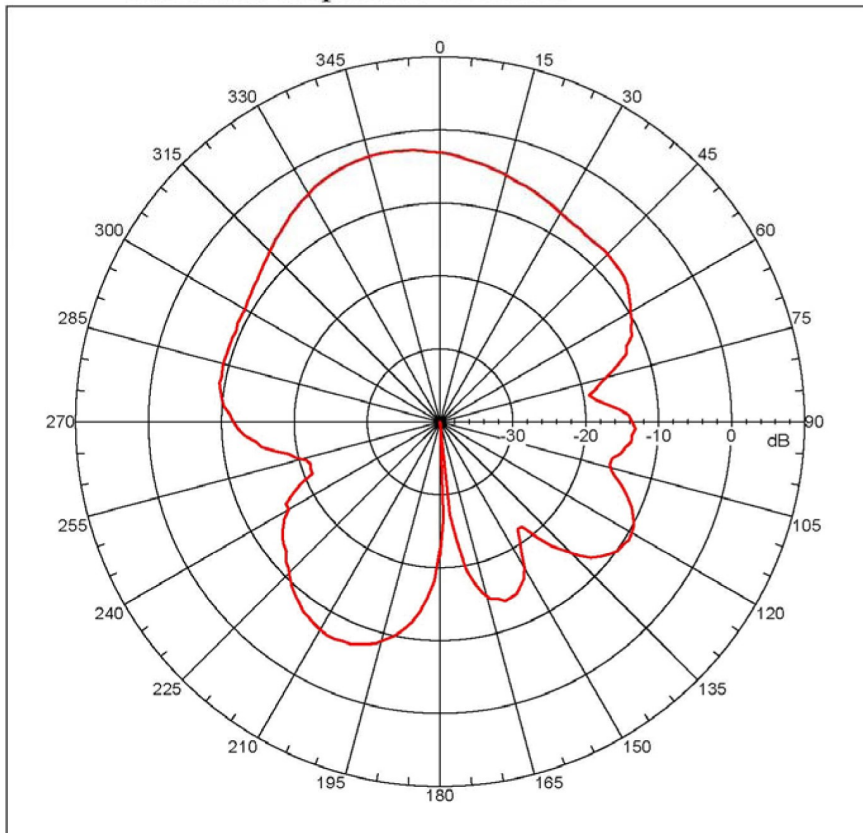
Selected beam(s) 1 of 12
Beam Frequency Azimuth Elevation Pol
8 2.100 GHz Azimuth Elevation Single-pol

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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

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

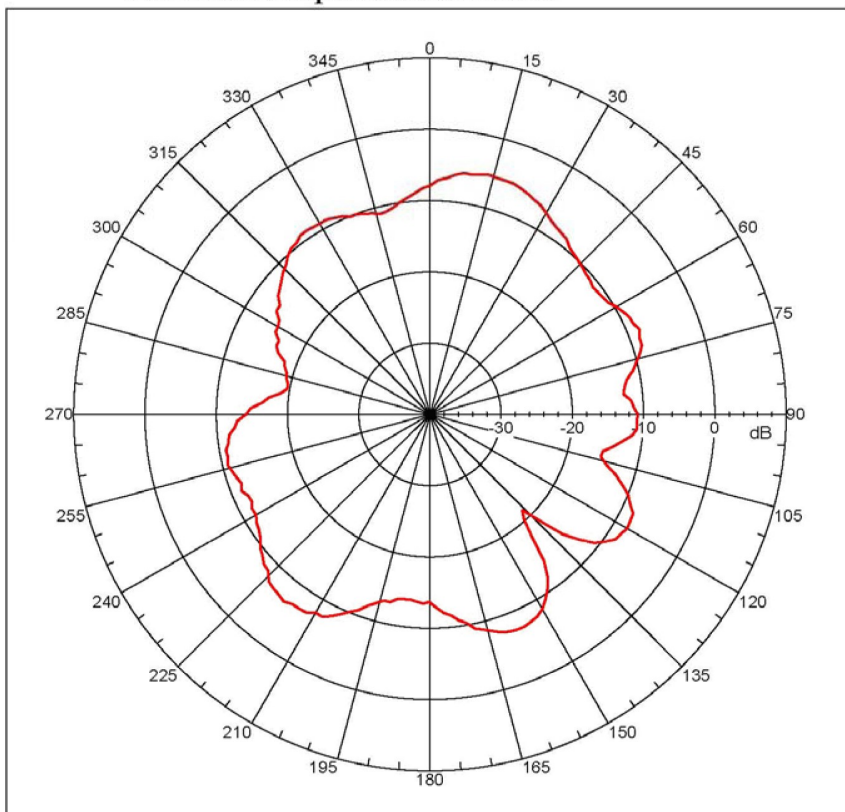
Selected beam(s) 1 of 12

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

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