

Specification

1.1 Product Type: FPC Antenna

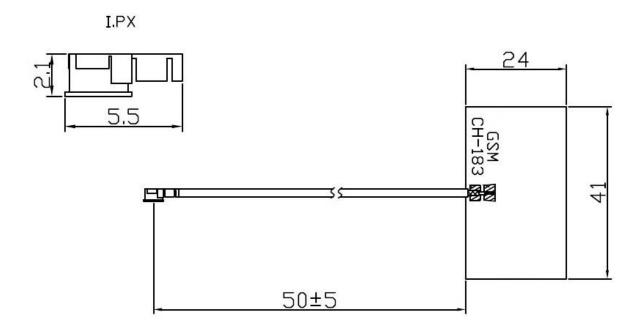
1.2 Product's No: EG-IPX113PCB-4812

1.2 Product's Photo:





2.1 Technical Drawing:

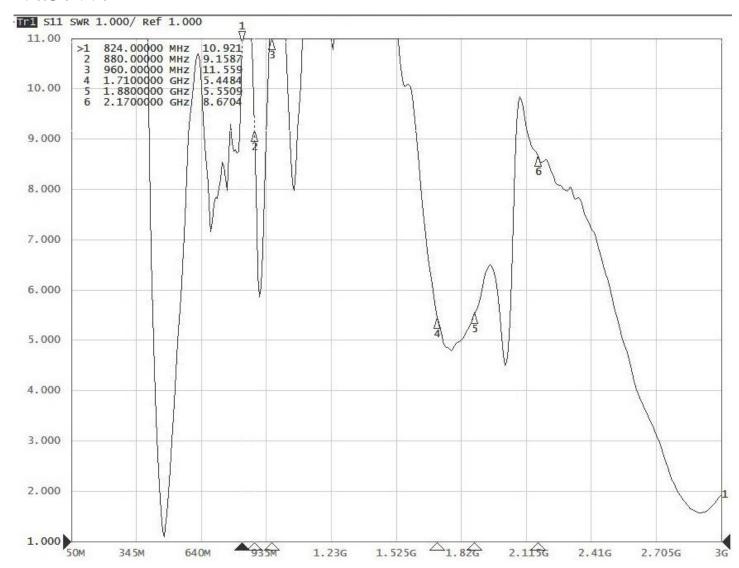


Frequency	824~960/1710~2170 MHz	
V.S.W.R	5.0:1	
Cable	Ø1.13	
Connector	IPEX	
*RoHS Compliant		



3.1 Test Report:

V.S.W.R



Frequency	824 MHz	880 MHz	960 MHz
V.S.W.R	10.92	9.15	11.55
Frequency	1710 MHz	1880 MHz	2170 MHz
V.S.W.R	5.44	5.55	8.67



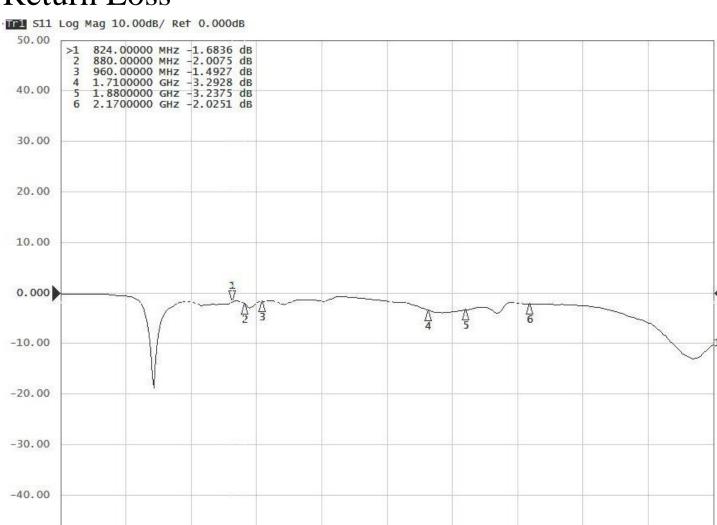
Return Loss

-50.00

50M

345M

64 OM



Frequency	824 MHz	880 MHz	960 MHz
Return Loss	-1.68 dB	-2.00 dB	-1.49 dB
Frequency	1710 MHz	1880 MHz	2170 MHz
Return Loss	-3.29 dB	-3.23 dB	-2.02 dB

1.23G

1.525G 1.82G

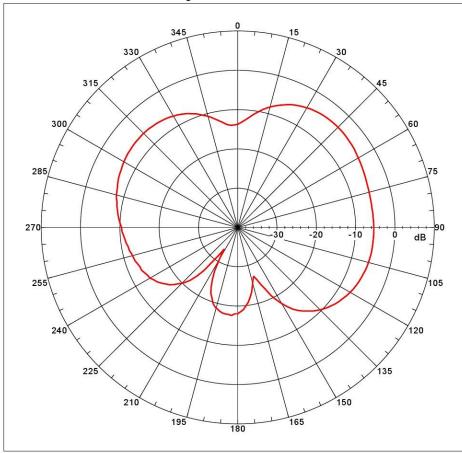
2.115G

2.41G

2.705G

3G





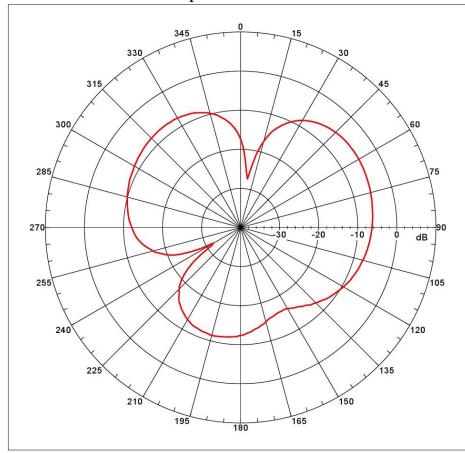
```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -3.94875 dBi
Max far-field (global) = -46.94809 dB, Max far-field (plot) =
-46.9481 dB
Mormalization: Reference, Network offset = 0.000 dB
Hheak at: 47.95959 deg, Vpeak at: 0.000 deg
Plot centering: On

EG-4812-E

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\EG
-4812\EG -4812-E.nsi
Measurement date/time: 7/25/2017 11:37:37 AM, Filetype: NSI-97
Far-field Cut Analysis:
Ayg value: -9.419 dB
-3. dB beam vidth: 100.74 deg
-6. dB beam vidth: 133.88 deg
Left Sidelobe: -2.18 dB at -45.251 deg
Right Sidelobe: Not Found
Far-field display setup
Azimuth (deg)
Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
Span = 360.00001 deg, Stop = 180.00001 deg, Delta = 2.000
deg
Elevation (deg)
Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 6
Beam Frequency Azimuth Elevation Fol
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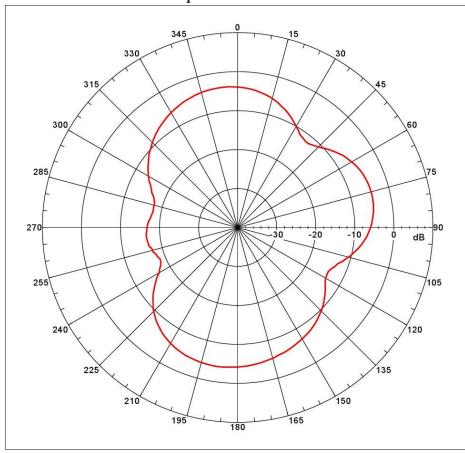
```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -5.05064 dB1
Max far-field (global) = -45.98665 dB, Max far-field (plot) =
-45.98666 dB
Normalization: Reference, Network offset = 0.000 dB
Hipeak at: 57.95959 deg, Vpeak at: 0.000 deg
Plot centerling: 0n

EG-4812-E
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\EG
-4812:EG-4812-E.nsi
Heasurement date/time: 7/25/2017 11:37:37 AM, Filetype: NSI-97
Far-field Cut Analysis:
Avg value: -10.493 dB
-3. dB beam vidth: 104.88 deg
-6. dB beam vidth: 104.88 deg
-10. dB beam vidth: 128.28 deg
Left Sidelobe: Not Found
Far-field Sidelobe: Not Found
Far-field Sidelobe: Not Found
Span = 360.00001 deg, Center = 0.000 deg, $pts = 181
Statt - 180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg
Elevation (deg)
Center = 0.000 deg, $pts = 1

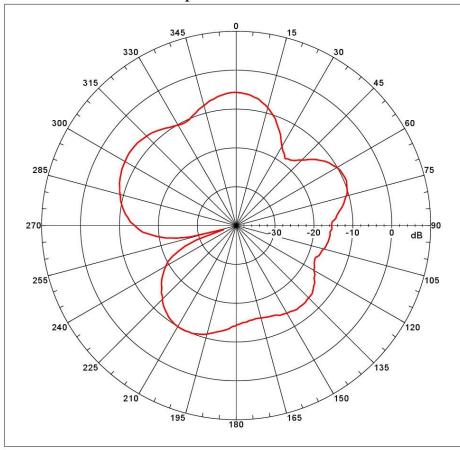
Selected beam(s) 1 of 6
Beam Frequency Azimuth Elevation Fol
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Far-field amplitude of EG-4812-E.nsi







```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -5.7194 dB1

Max far-field (global) = -50.91199 dB, Max far-field (plot) = -50.91199 dB

Normalization: Reference, Network offset = 0.000 dB

Hyeak at: -0.00001 deg, Vpeak at: 0.000 deg

Plot centering: 0n

EG-4812-E

MSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\EG
-4812\EG e812-E.nni

Measurement date/time: 7/25/2017 11:37:37 AM, Filetype: NSI-97

Far-field Cut Analysin:

Any value: -11.833 dB
-3. dB beam vidth: 33.61 deg
-6. dB beam vidth: 107.18 deg
-10. dB beam vidth: 122.95 deg

Left Sidelobe: -1.06 dB at -55.307 deg

Right Sidelobe: -3.69 dB at 69.385 deg

Far-field display setup

Azimuth (deg)

Span = 360.00001 deg, Stop = 180.00001 deg, Delta = 2.000

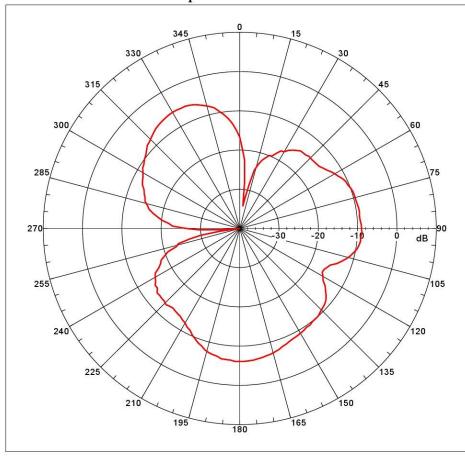
deg

Elevation (deg)

Center = 0.000 deg, $pts = 1

Beam Frequency Azimuth Elevation Fol
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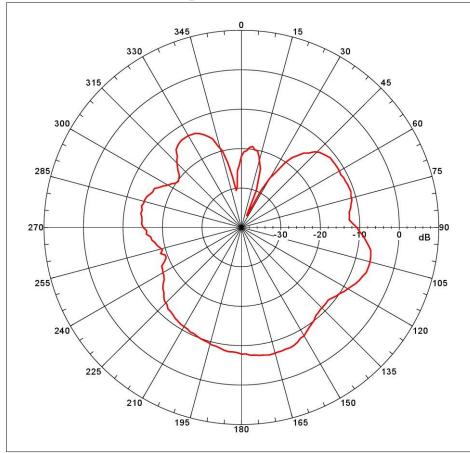


```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -5.82419 dBi
Max far-field (global) = -52.49276 dB, Max far-field (plot) =
-52.49277 dB
Normalization: Reference, Network offset = 0.000 dB
Hheak at: -30.00001 deg, Vpeak at: 0.000 deg
Plot centering: Oh

EG-4812-E

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\EG
-4812\EG -4812-E.nsi
Heasurement date/time: 7/25/2017 11:37:37 AM, Filetype: NSI-97
Far-field Cut Analysis:
    Avg value: -11.509 dB
-3. dB beam vidth: 38.06 deg
-6. dB beam vidth: 55.20 deg
-10. dB beam vidth: 55.20 deg
Left Sidelobe: -8.26 dB at -123.687 deg
Eight Sidelobe: -9.05 dB at 38.218 deg
Far-field display setup
    Azimuth (deg)
    Span = 360.00001 deg, Center = 0.000 deg, $pts = 181
Selected beam(s) 1 of 6
Beam Frequency Azimuth Elevation Fol
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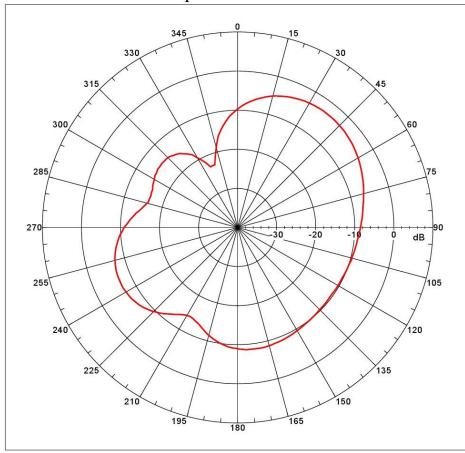


```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -6.24622 dB1
Max far-field (global) = -53.77833 dB, Max far-field (plot) =
-53.77841 dB
Normalization: Reference, Network offset = 0.000 dB
Hheak at: 105.958959 deg, Vpeak at: 0.000 deg
Plot centering: 0n

EG-4812-E

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\EG
-4812\EG -4812-E.nsi
Measurement date/time: 7/25/2017 11:37:37 AM, Filetype: NSI-97
Far-field Cut Analysis:
Arg value: -12.552 dB
-3. dB beam vidth: 80.59 deg
-6. dB beam vidth: Not Found
-10. dB beam vidth: Not Found
Left Sidelobe: -4.56 dB at 73.408 deg
Right Sidelobe: -0.83 dB at 159.888 deg
Far-field display setup
Azimuth (deg)
Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
Selected beam(s) 1 of 6
Beam Frequency Azimuth Elevation Fol
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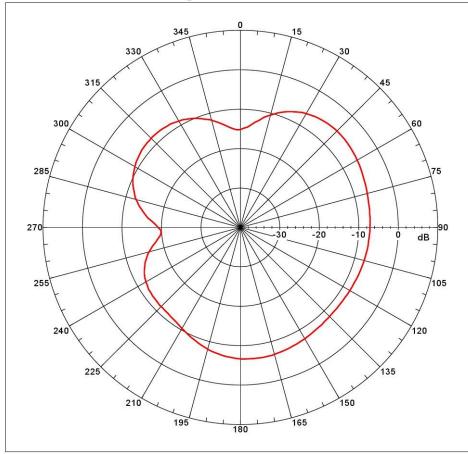
```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -3.00157 dBi
Max far-field (global) = -46.00091 dB, Max far-field (plot) =
-46.00093 dB
Normalization: Reference, Network offset = 0.000 dB
Hheak at: 35.99599 deg, Vpeak at: 0.000 deg
Plot centering: On

EG-4812-H

NS12000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\EG
-4812\EG-4812-H.msi
Measurement date/time: 7/25/2017 11:28:46 AM, Filetype: NSI-97
Far-field Cut Analysis:
Avg value: -9.142 s.98 deg
-3. dB beam width: 55.99 dg
-3. dB beam width: 55.99 dg
-3. dB beam width: Not Found
Lett Sidelobe: -11.65 dB at -49.274 deg
Eight Sidelobe: -5.56 dB at 165.944 deg
Far-field display setup
Azimuth (deg)
Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
Selected beam(s) 1 of 6
Elevation (deg)
Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 6
Beam Frequency Azimuth Elevation Fol
```





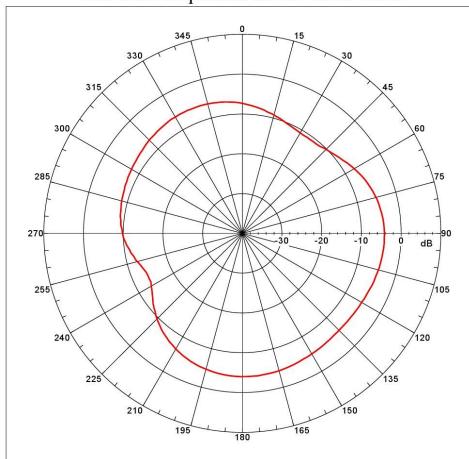
```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -5.38895 dB1
Hax far-field (global) = -46.31496 dB, Max far-field (plot) =
-46.31497 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 45.99999 deg, Vpeak at: 0.000 deg
Plot centering: On

EG-4812-H
NSICO00 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\EG
-4812\EG 4812-H.nsi
Heasurement date/time: 7/25/2017 l1:28:46 AM, Filetype: NSI-97
Far-field Cut Analysis:
Avg value: -9.008 dB
-3. dB beam vidth: Not Found
-6. dB beam vidth: Not Found
-10. dB beam vidth: Not Found
Left Sidelobe: -2.62 dB at -43.240 deg
Right Sidelobe: -1.15 dB at 167.993 deg
Far-field display setup
Azimuth (deg)
San 3 dB setup
Azimuth (deg)
Center = 0.000 deg, Stop = 180.00001 deg, Delta = 2.000
deg
Elevation (deg)
Center = 0.000 deg, $pts = 1

Selected beam(s) 1 of 6
Beam Frequency Azimuth Elevation Fol
```



Far-field amplitude of EG-4812-H.nsi

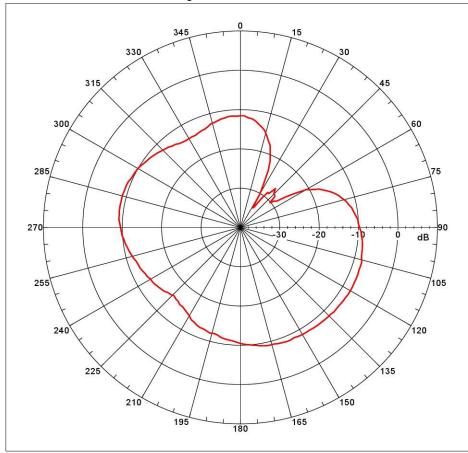


```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -3.983 dB1
Max far-field (global) = -46.61267 dB, Max far-field (plot) =
-46.61278 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 174.000 deg, Vpeak at: 0.000 deg
Plot centering: On

EG-4812-H
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\EG
-4812\EG-4812-H.nsi
Heasurement date/time: 7/25/2017 11:28:46 AM, Filetype: NSI-97
Far-field qu. And Addisis
3-3 dB beam vidth: Not Found
-6. dB beam vidth: Not Found
-10. dB beam vidth: Not Found
Left Sidelobe: -0.20 dB at 95.531 deg
Right Sidelobe: Not Found
Far-field display setup
Azimuth (deg)
Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
Start -180.000001 deg, Stop = 180.00001 deg, Delta = 2.000
deg
Elevation (deg)
Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 6
Beam Frequency Azimuth Elevation Fol
```





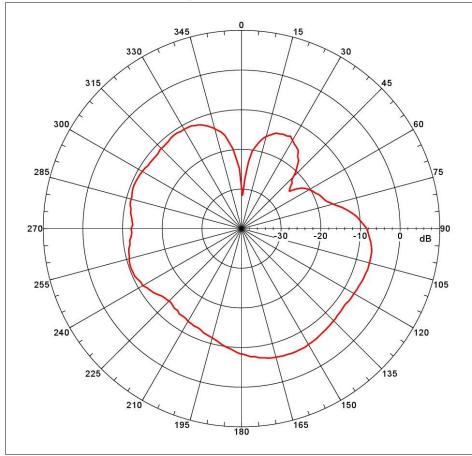
```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -7.78569 dBi
Max far-field (global) = -52.97828 dB, Max far-field (plot) =
-52.97834 dB
Normalization: Reference, Network offset = 0.000 dB
Hheak at: 119.98989 deg, Vpeak at: 0.000 deg
Flot centering: On

EG-4812-H
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\EG
-4812\EG -4812-H.nsi
Measurement date/time: 7/25/2017 11:28:46 AM, Filetype: NSI-97
Far-field Cut Analysis:
Arg value: -11.842 dB
-3. dB beam vidth: Not Found
-6. dB beam vidth: Not Found
-10. dB beam vidth: Not Found
1-10. dB beam vidth: Not Found
Left Sidelobe: -18.87 dB at 43:240 deg
Right Sidelobe: Not Found
Far-field display setup
Azimuth (deg)
Span = 360.00001 deg, Center = 0.000 deg, $pts = 181
Span = 360.00001 deg, Stop = 180.00001 deg, Delta = 2.000
deg
Elevation (deg)
Center = 0.000 deg, $pts = 1

Selected beam(s) 1 of 6
Beam Frequency Azimuth Elevation Fol
```



Far-field amplitude of EG-4812-H.nsi



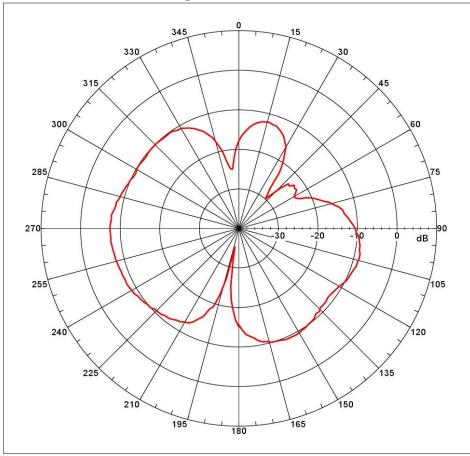
```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -6.06951 dB1
Max far-field (global) = -52.73808 dB, Max far-field (plot) =
-52.73814 dB
Normalization: Reference, Network offset = 0.000 dB
Hipeak at: 155.95959 deg, Vpeak at: 0.000 deg
Plot centering: 0n

EG-4812-H
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\EG
-4812-EG-4812-H.nsi
Measurement date/time: 7/25/2017 l1:28:46 AM, Filetype: NSI-97
Far-field Cut Analysis:
Avg value: -11.216 dB
-3. dB beam vidth: Not Found
-6. dB beam vidth: Not Found
-10. dB beam vidth: Not Found
left Sidelobe: 0.47 dB at 105.605 deg
Ripht Sidelobe: Not Found
Aspendent Sidelobe: Not Found
Start=-180.00001 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 6
Beam Frequency Azimuth Elevation Fol
```



Far-field amplitude of EG-4812-H.nsi



```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -7.40676 dB1
Max far-field (global) = -54.93887 dB, Max far-field (plot) =
-54.93891 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -90.000 deg, Vpeak at: 0.000 deg
Plot centering: On

EG-4812-H

NS12000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\EG
-4812\EG-4812-H.msi
Measurement date/time: 7/25/2017 11:28:46 AM, Filetype: NSI-97
Far-field Cut Analysis:
Avg value: -12.041 deg
-5. dB beam vidth: 70.87 deg
-6. dB seam vidth: 10.87 deg
-6. dB seam vidth: 10.87 deg
-6. dB seam vidth: 10.97 deg
-6. dB seam vidth: 10.98 deg
-7. deg
-7. deg
-8. deg
-9. deg
-
```