

## PUK Dual Band Antenna

### Features

- Omni directional Antenna
- Low Profile Package
- Rugged Screw Fix Mount
- Waterproof to IP67
- +2dBi Gain
- 50Ω Impedance
- 1.5metres RG174 Cable
- SMA Male Connector
- M14 Screw Fix connector
- ABS / Rubber Housing
- Operates from -40 to 70°C



### Applications

- General Low Power Radio
- M2M Applications
- Telemetry

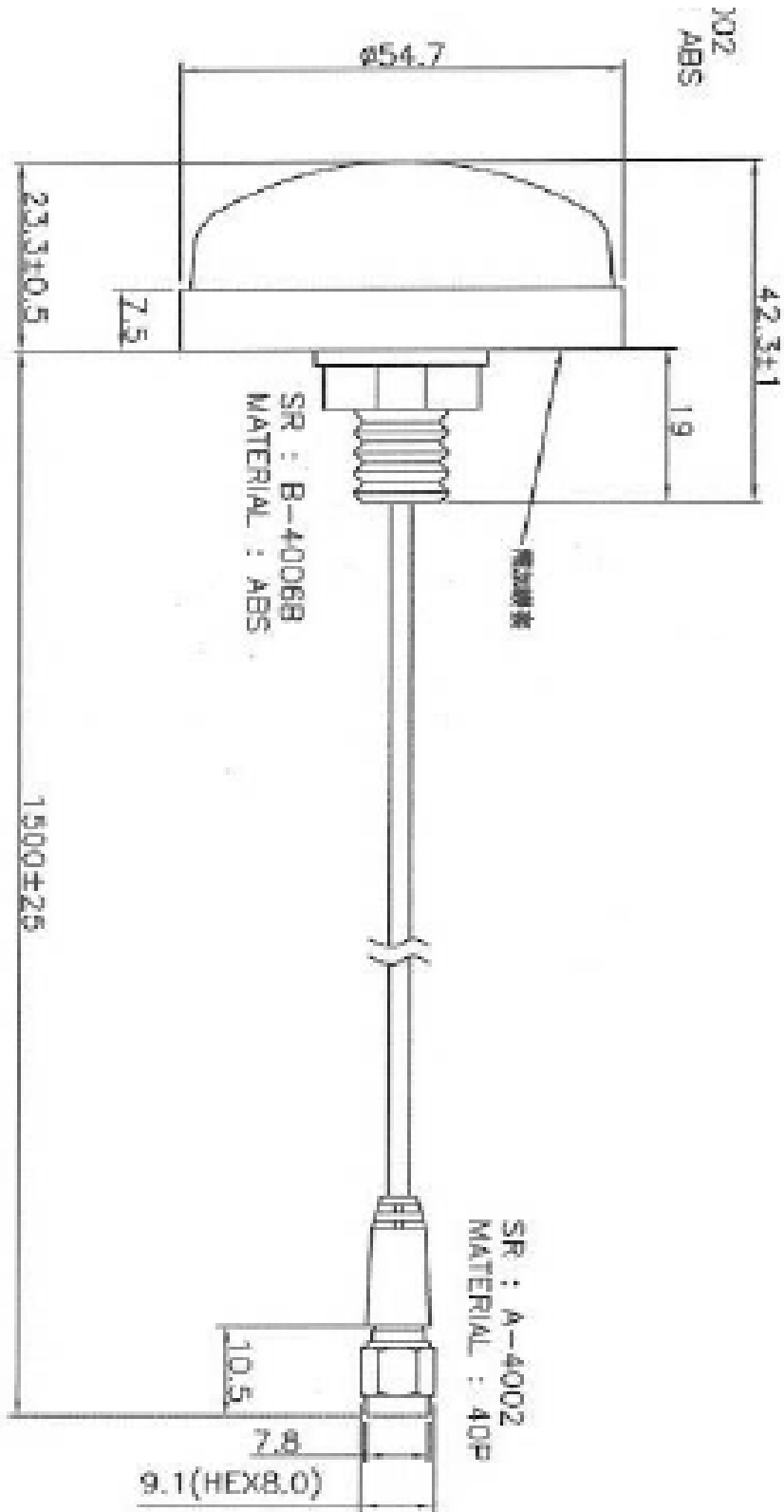
### Description

A Rugged antenna for demanding applications. This antenna provides operation at both 433 and 868MHz with 2dBi gain. Housed in a rugged low profile ABS, this antenna is compact and resistant to Vandalism.

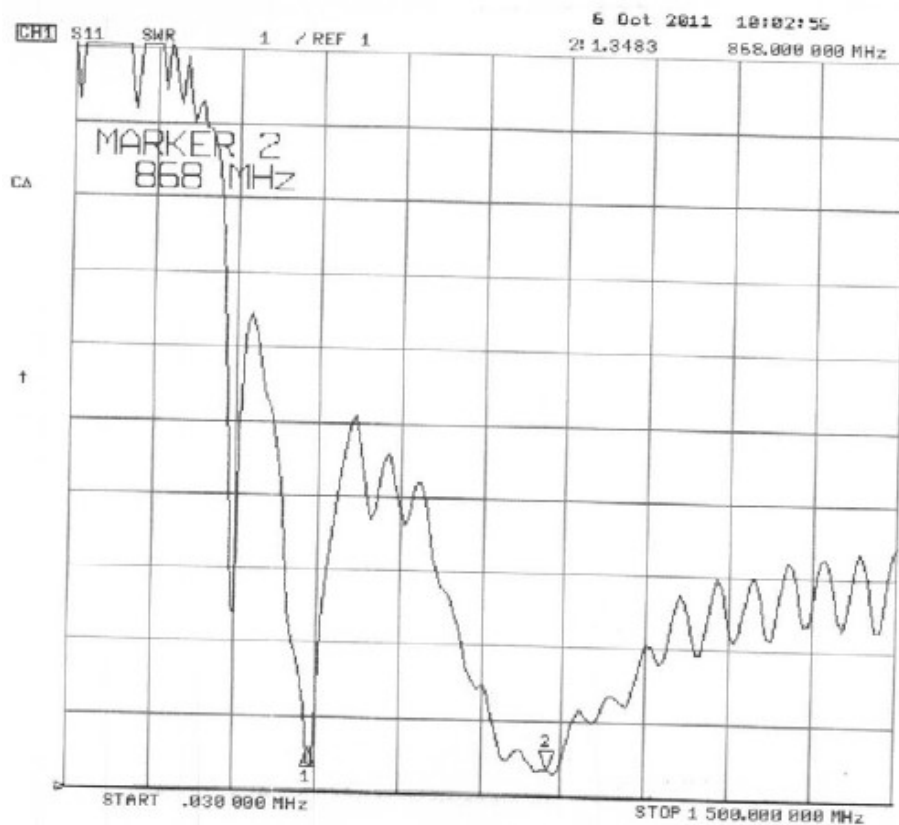
### Ordering Information

PART No	Description
ANT-PUKDB	Miniature Puck Antenna

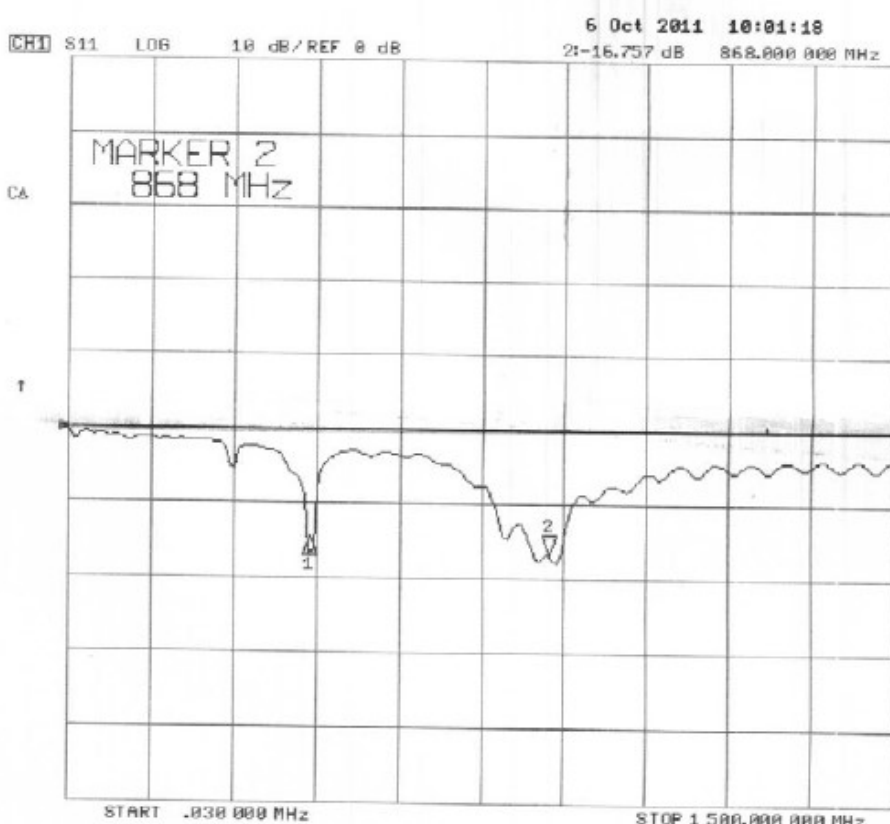
## Mechanical Detail



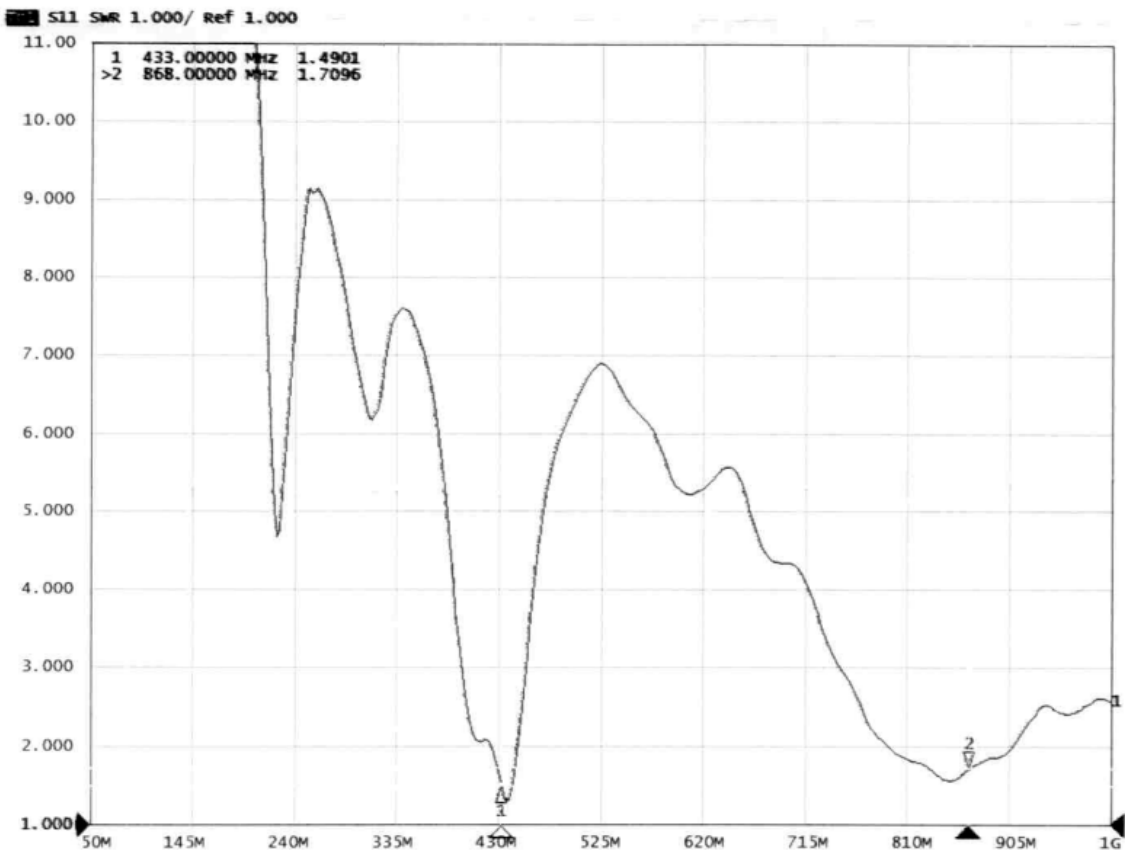
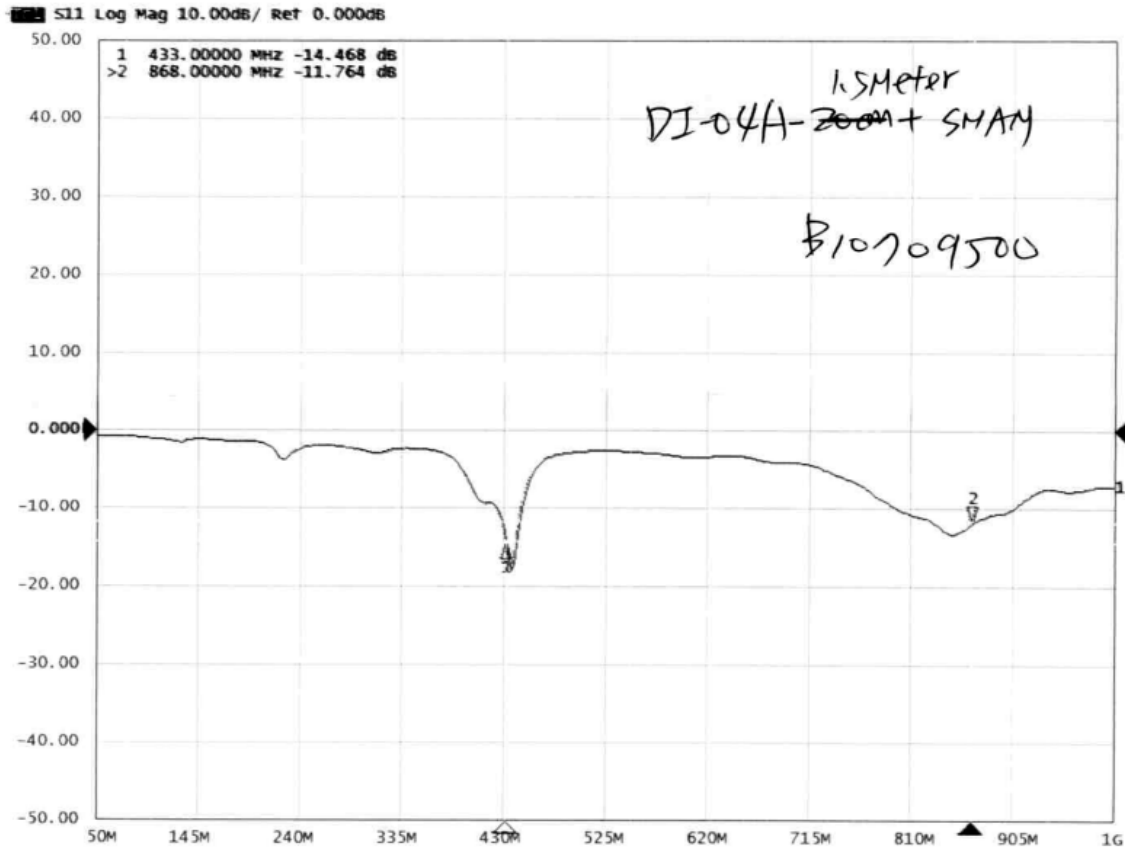
## Performance Data – VSWR



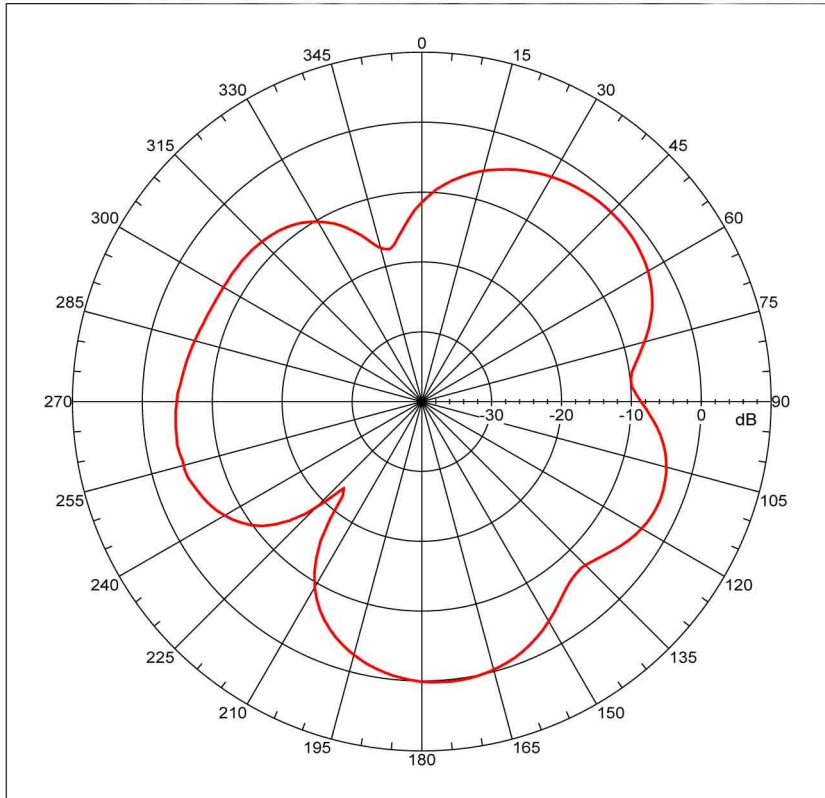
GSM-04A  
for 433+868MHz  
dual band  
1.5metres RG174  
+ SMA(M)



## Performance Data – VSWR



## Radiation Pattern 868MHz E01



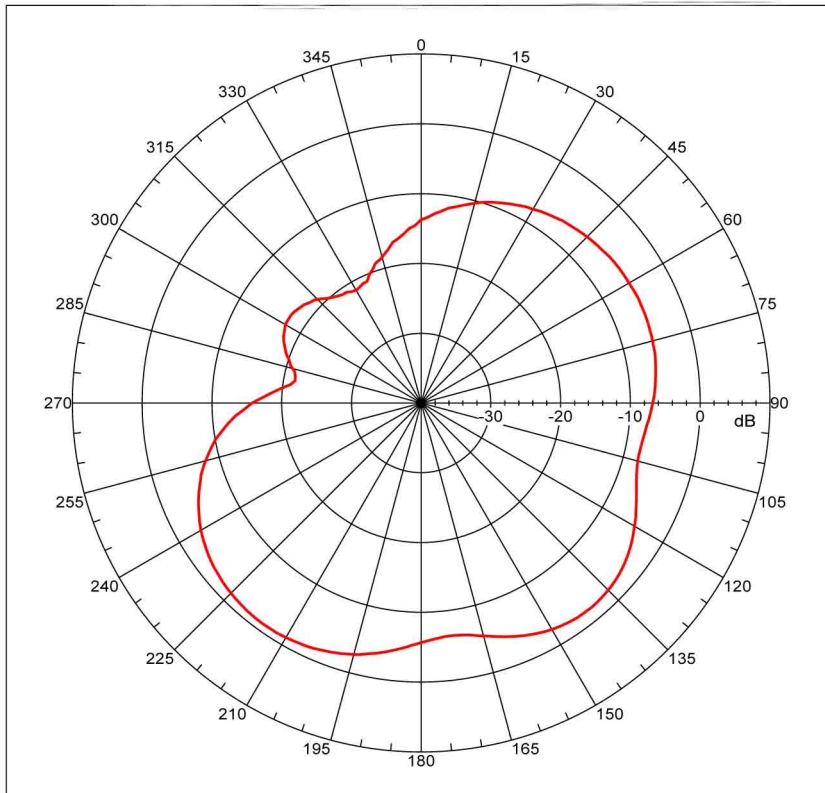
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg  
 Gain = 0.26754 dBi  
 Max far-field (global) = -40.51956 dB, Max far-field (plot) = -40.51961 dB  
 Normalization: Reference, Network offset = 0.000 dB  
 Hpeak at: 174.000 deg, Vpeak at: 0.000 deg  
 Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20  
 Measurement date/time: 5/27/2014 11:21:26 AM, Filetype: NSI-97  
 Far-field Cut Analysis:  
 Avg value: -5.441 dB  
 -3. dB beam width: Not Found  
 -6. dB beam width: Not Found  
 -10. dB beam width: Not Found  
 Left Sidelobe: -3.37 dB at 113.631 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 deg  
 Elevation (deg)  
 Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 1  

Beam	Frequency	Azimuth	Elevation	Pol
1	0.868 GHz	Azimuth	Elevation	Single-pol

## Radiation Pattern 868MHz H01



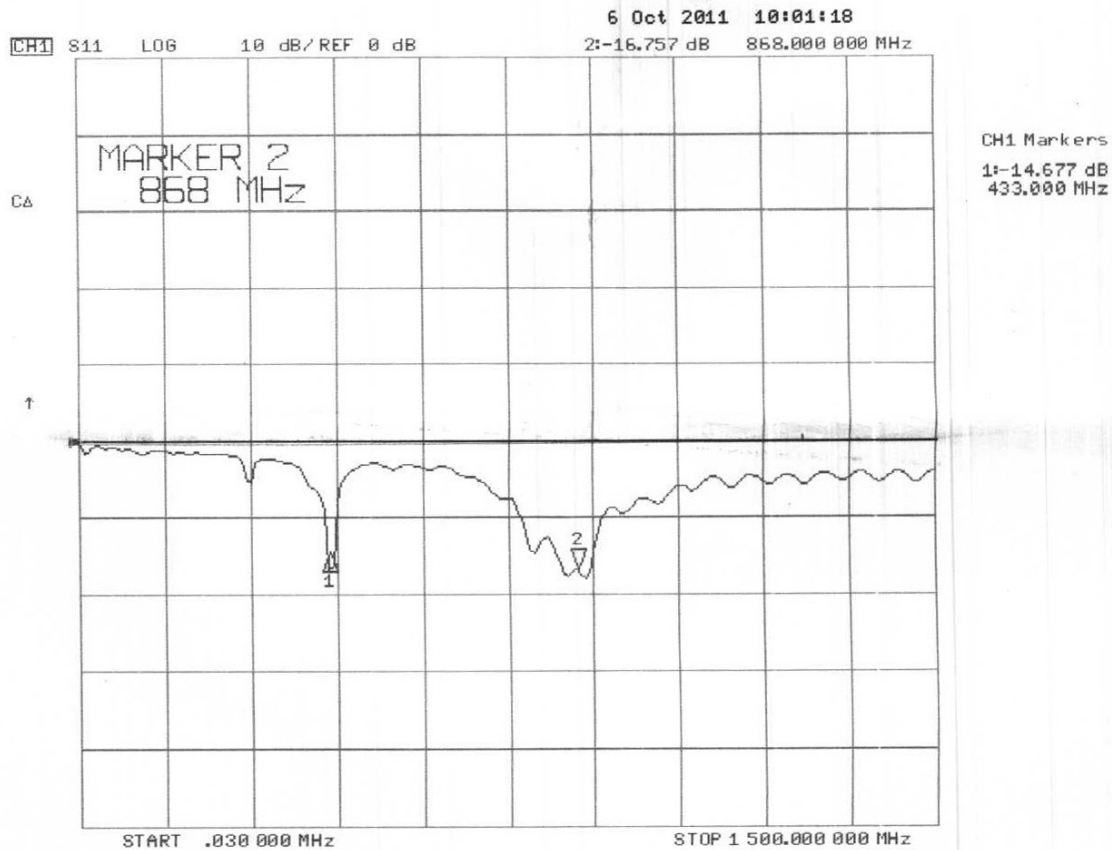
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg  
 Gain = -1.07087 dBi  
 Max far-field (global) = -41.85797 dB, Max far-field (plot) = -41.858 dB  
 Normalization: Reference, Network offset = 0.000 dB  
 Hpeak at: -144.000 deg, Vpeak at: 0.000 deg  
 Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20  
 Measurement date/time: 5/27/2014 11:23:10 AM, Filetype: NSI-97  
 Far-field Cut Analysis:  
 Avg value: -7.032 dB  
 -3. dB beam width: 54.86 deg  
 -6. dB beam width: Not Found  
 -10. dB beam width: Not Found  
 Left Sidelobe: Not Found  
 Right Sidelobe: -16.43 dB at -57.318 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 1  

Beam	Frequency	Azimuth	Elevation	Pol
1	0.868 GHz	Azimuth	Elevation	Single-pol

## Performance Data — RETURN LOSS



### RF Solutions Ltd. Recycling Notice

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

### Waste Batteries and Accumulators

#### Directive 2006/66/EC

Where batteries are fitted, before recycling the product, the batteries must be removed and disposed of at a licensed collection point.

Environment Agency producer registration number: WEE/JB0104WV.

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