



## INTRODUCTION

### 1. GENERAL DESCRIPTION

Model No	Part No
	C02+M36-1+174U+SMA M

#### 1.1 Electrical Properties

Parameter	Description
Frequency Band	900/1800 MHz
Nominal Impedance	50 ohm
V.S.W.R	2.0:1
Antenna Average Gain	3dBi

#### 1.2 Mechanical Properties

Parameter	Description
Antenna Type	Mini Mag Antenna
Cable Cover	Black
Antenna Cable	RG174U 3m
Antenna Color	Black
Cable OD	Ø2.6±0.1 mm

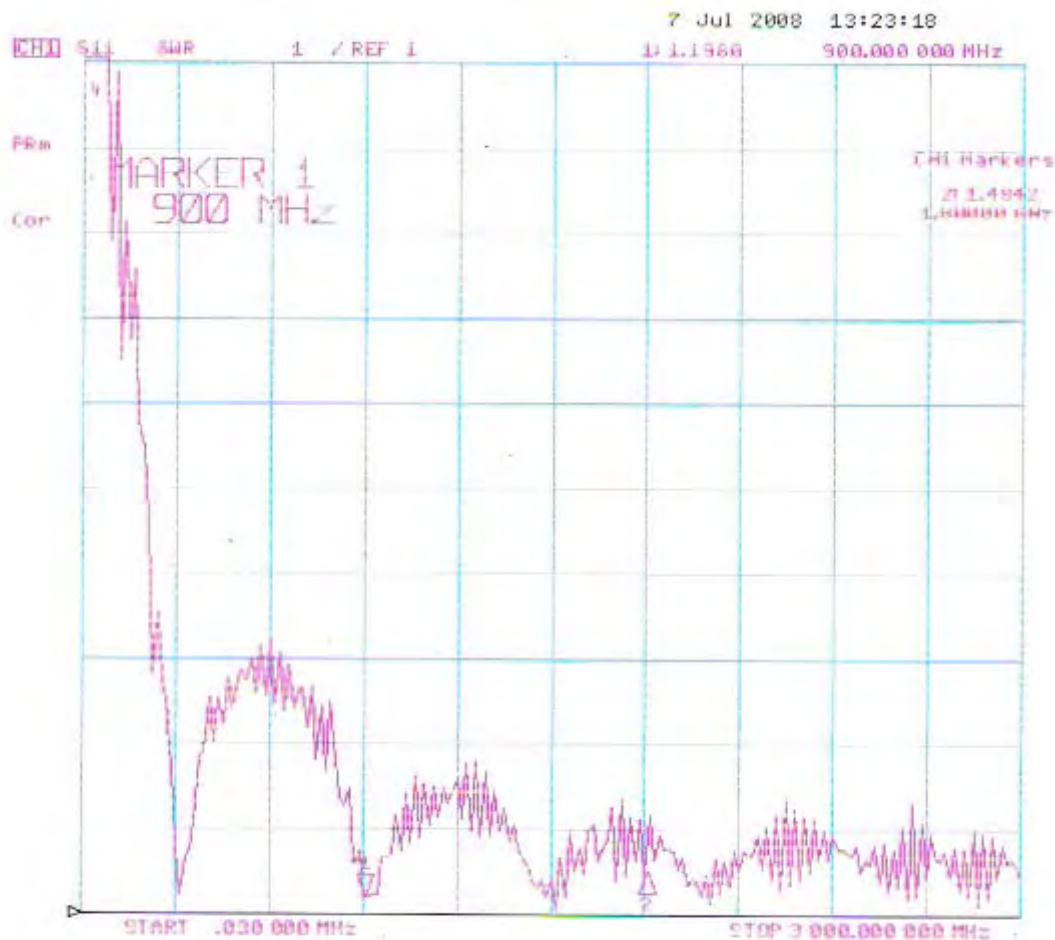
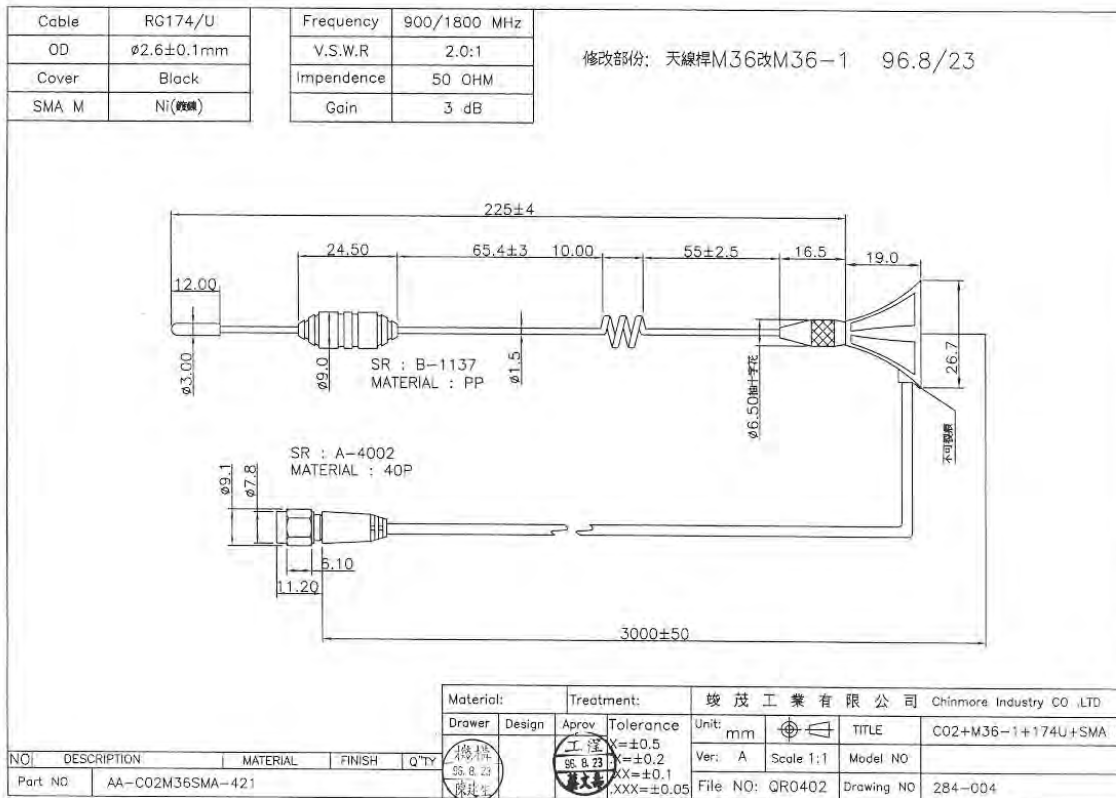
### Antenna Gain

Frequency	900 MHz		1800 MHz	
	Peak Gain	Avg.	Peak Gain	Avg.
E-Plane	2.95 dBi	-2.11 dBi	2.97dBi	-3.97dBi
H-Plane	3.92 dBi	-4.97 dBi	0.48 dBi	-1.26 dBi



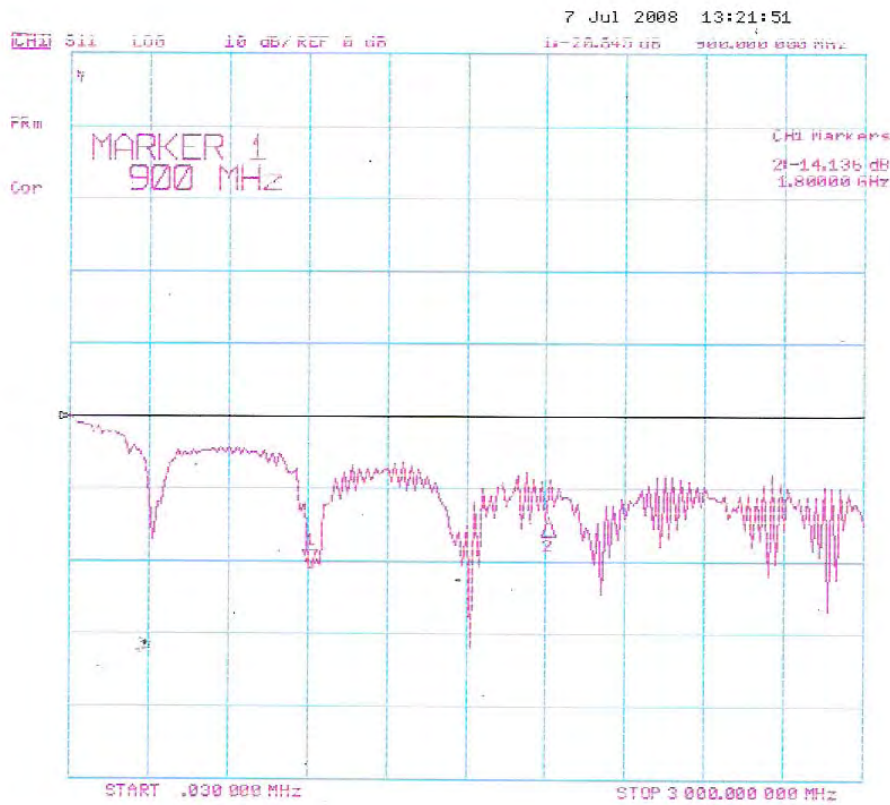
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## 2. Appearance

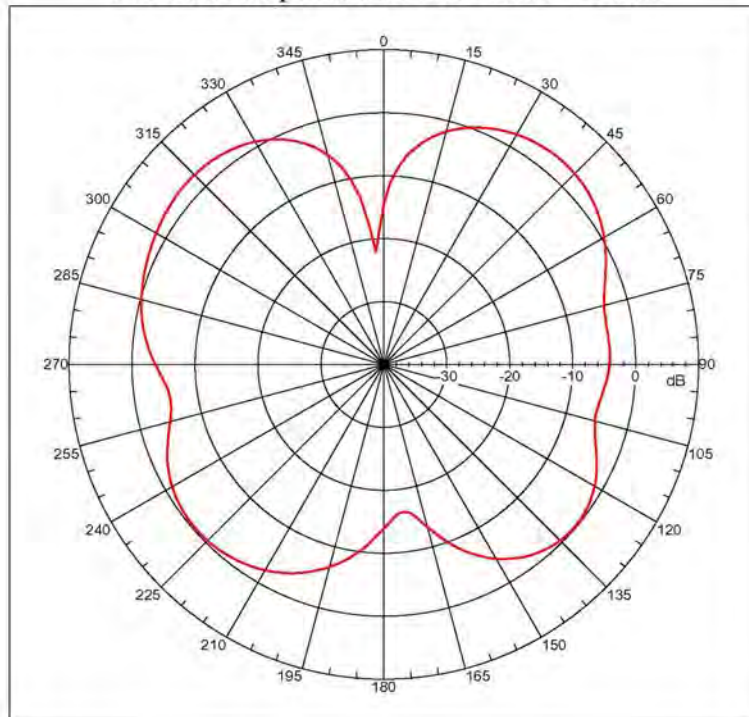




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Far-field amplitude of C02+M36-1-E.nsi



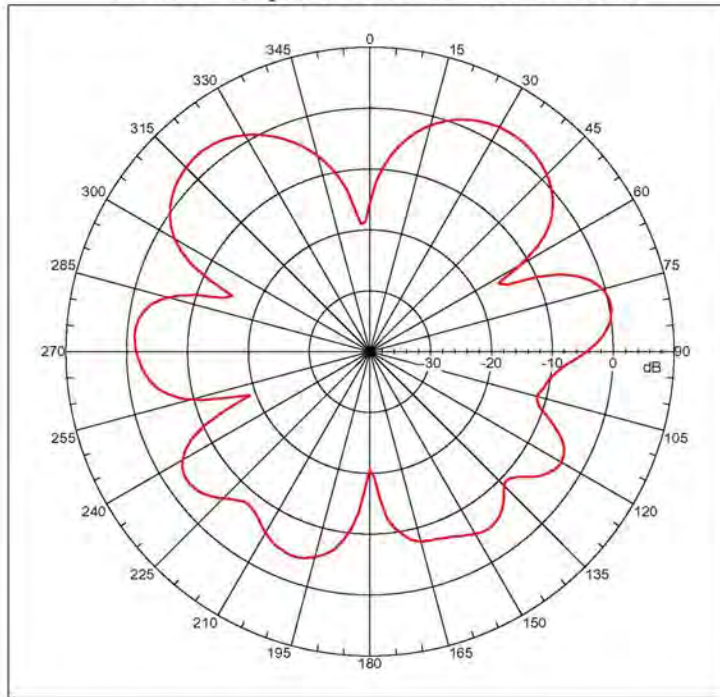
Far-field amplitude, E-plane: Linear, Tau = 0.000 deg  
Gain = 2.95561 dBi  
Max far-field (global) = -19.0040 dB, Max far-field (plot) = -19.0040 dB  
Normalization: Reference, Network offset = 0.000 dB  
Peak at: 41.9999 deg, Vpeak at: 0.000 deg  
Plot centering: 00

C02+M36-1-E

NSI2009 v4.0.124, File name: C:\Documents and Settings\NSI\Desktop\99  
12 C02+M36-1-E.nsi  
Measurement date/time: 10/21/2012 2:49:11 PM, File type: NSI/99  
Far-field Cut Analysis:  
Avg value: -2.111 dB  
-2.111 dB beam width: 41.91 deg  
-3.000 dB beam width: 59.83 deg  
-10.000 dB beam width: 150.36 deg  
Left side lobe: -0.40 dB at -45.251 deg  
Right side lobe: -2.15 dB at 137.741 deg  
Far-field display setup  
Azimuth (deg)  
Step = 180.00001 deg, Center = 0.000 deg, Spts = 181  
Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000  
deg  
Elevation (deg)  
Center = 0.000 deg, Spts = 1  
Selected beam(s) 1 of 8  
Beam Frequency Azimuth Elevation f0i  
1 0.900 GHz Azimuth Elevation f0i



Far-field amplitude of C02+M36-1-E.nsi



Far-field amplitude, Elevation: 100.000 deg  
Gain = 2.9155 dBi  
Max Far-field (global) = -43.84684 dB, Max Far-field (plot) = -43.84684 dB  
Normalization: Reference, Network offset = 0.000 dB  
Sweep at: -49.00000 deg, Sweep at: 0.000 deg  
Plot centering: on

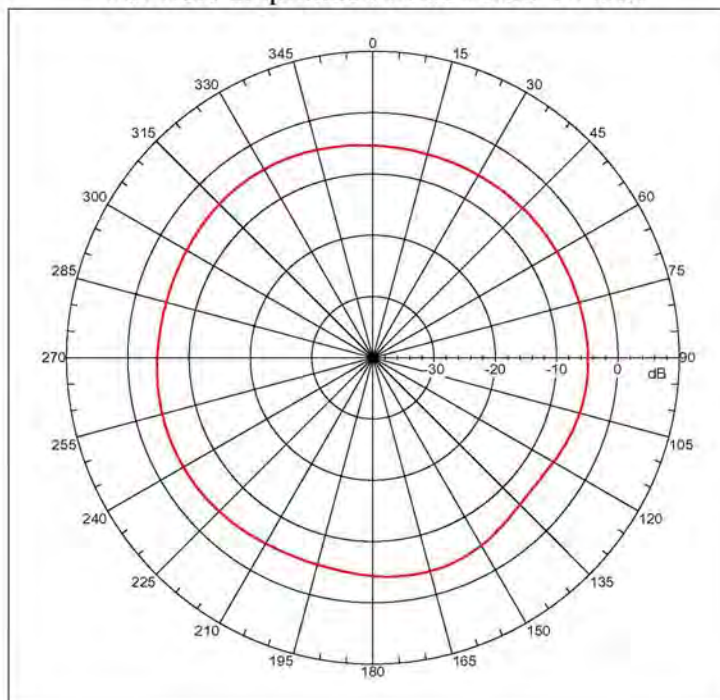
C02+M36-1-E

NI7500 V4.0.124, Filename: C:\Documents and Settings\HAI\workspace\08  
12 CHINMORE\C02+M36-1\C02+M36-1-E.nsi  
Measurement date/time: 10/21/2013 2:49:11 PM, Filetype: NSI-V1  
Far-field Cut Analysis:  
Avg value: -3.976 dB  
-3. dB beam width: 24.33 deg  
-6. dB beam width: 39.33 deg  
-10. dB beam width: 49.19 deg  
Left sidelobe: -4.73 dB at -15.475 deg  
Right sidelobe: -0.23 dB at 33.196 deg  
Far-field display setup  
Azimuth (deg)  
Span = 360.00001 deg, Center = 0.000 deg, #pts = 361  
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	Gain
1	1.800 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of C02+M36-1-H.nsi



Far-field amplitude, Elevation: 100.000 deg  
Gain = -3.90649 dBi  
Max Far-field (global) = -43.84684 dB, Max Far-field (plot) = -43.84684 dB  
Normalization: Reference, Network offset = 0.000 dB  
Sweep at: 160.00000 deg, Sweep at: 0.000 deg  
Plot centering: on

C02+M36-1-H

NI7500 V4.0.124, Filename: C:\Documents and Settings\HAI\workspace\08  
12 CHINMORE\C02+M36-1\C02+M36-1-H.nsi  
Measurement date/time: 10/21/2013 2:41:05 PM, Filetype: NSI-V1  
Far-field Cut Analysis:  
Avg value: -4.918 dB  
-3. dB beam width: Not Found  
-6. dB beam width: Not Found  
-10. dB beam width: Not Found  
Left sidelobe: -0.91 dB at 97.342 deg  
Right sidelobe: Not Found  
Far-field display setup  
Azimuth (deg)  
Span = 360.00001 deg, Center = 0.000 deg, #pts = 361  
Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg  
Elevation (deg)  
Center = 0.000 deg, #pts = 1

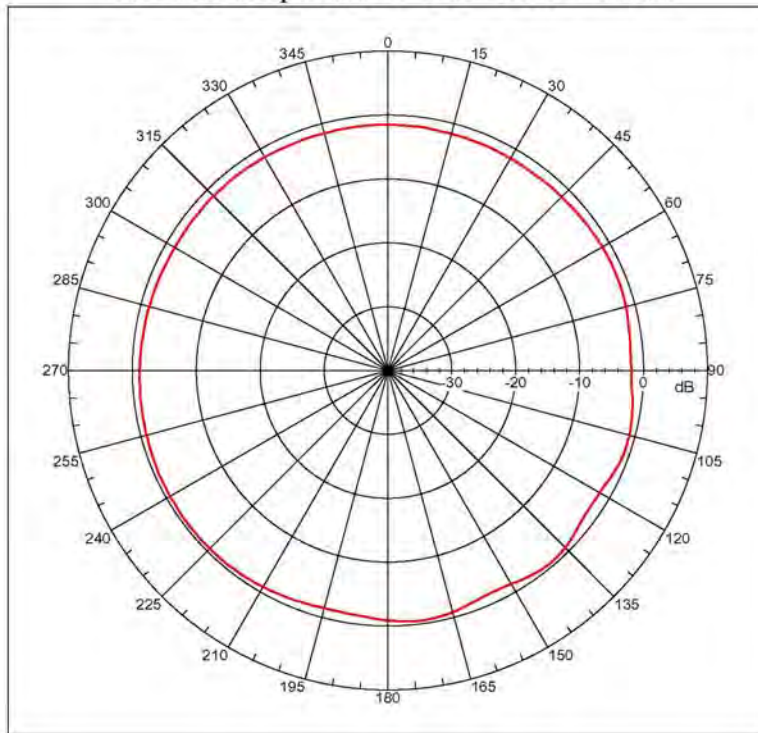
Selected beam(s) 1 of 1

Beam	Frequency	Azimuth	Elevation	Gain
1	0.900 GHz	Azimuth	Elevation	Single-pol





Far-field amplitude of C02+M36-1-H.nsi



Far-field amplitude, Principal: Linear, TWR = 0.000 deg  
Gain = -0.48929 dB  
Max far-field (global) = -47.31133 dB, Max far-field (plot) =  
-47.3114 dB  
Normalization: Reference, Network offset = 0.000 dB  
Uppeak at: 172.000 deg, Uppeak at: 0.000 deg  
Plot centering: 0  
C02+M36-1-H  
NFI2000 V4.0.124, Filename: C:\Documents and Settings\NFI\Desktop\20  
12 CHINMORE\C02\M36-1\C02+M36-1-H.nsi  
Measurement date/time: 10/23/2013 2:41:05 PM, Filetype: NFI-97  
Far-field Cut Analysis:  
Avg value: -1.263 dB  
-3.48 dB beam width: Not Found  
-6.48 dB beam width: Not Found  
-10.48 dB beam width: Not Found  
Left sidelobe: -0.48 dB at 141.788 deg  
Right sidelobe: Not Found  
Far-field display setup  
Azimuth (deg)  
Span = 360.00000 deg, Center = 0.000 deg, #pts = 181  
Start = -180.00000 deg, Stop = 180.00000 deg, Delta = 0.999  
deg  
Elevation (deg)  
Center = 0.000 deg, #pts = 1  
Selected beam(s) 1 of 8  
Beam Frequency Azimuth Elevation Pol  
1 2.800 GHz Azimuth Elevation Single-pol