

Specification

1. Product Type: GSM Antenna

2. Art No: 202-879

C07A+M96+RG316U+RP SMB M RA

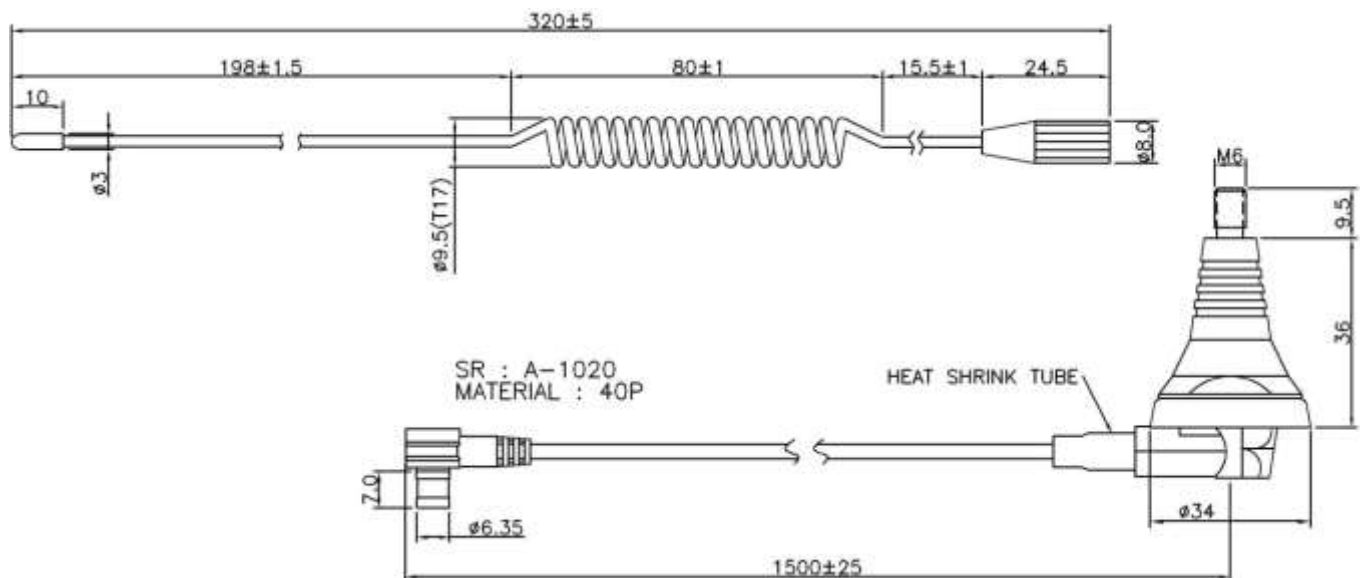
3. Frequency: 824~894 MHz

4. VSWR: 2.0:1

5. Cable: RG316

6. Connector: RP SMB M RA

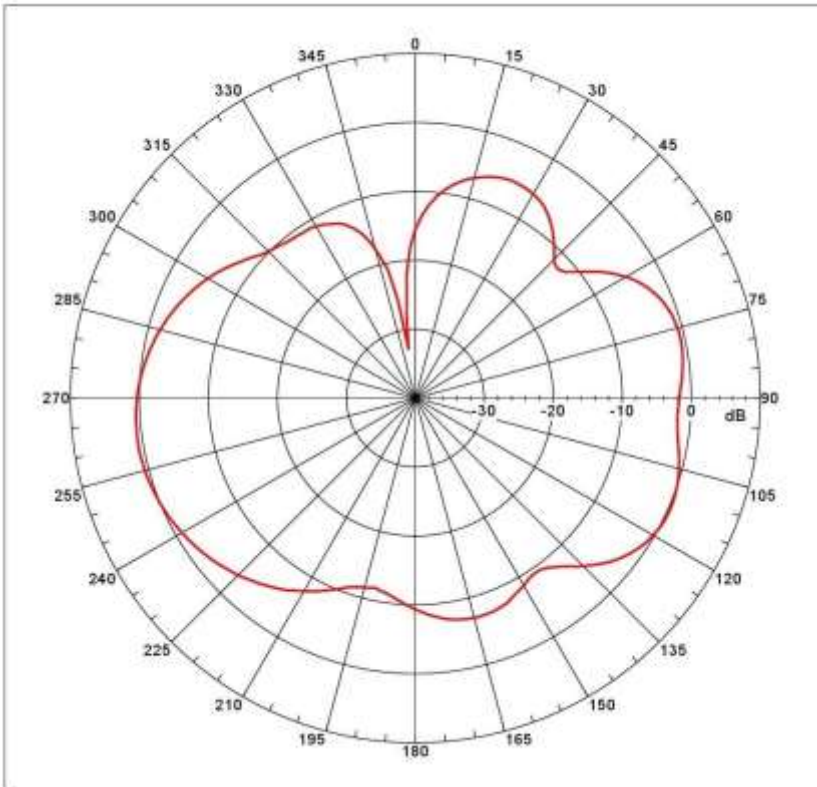
~~RoHS~~ Compliant



ELECTRICAL

Frequency (MHz)	E-Plane (dB)	H-Plane (dB)
806	0.73	1.38
868	2.99	3.85
900	3.19	4.08

1. TEST Photo

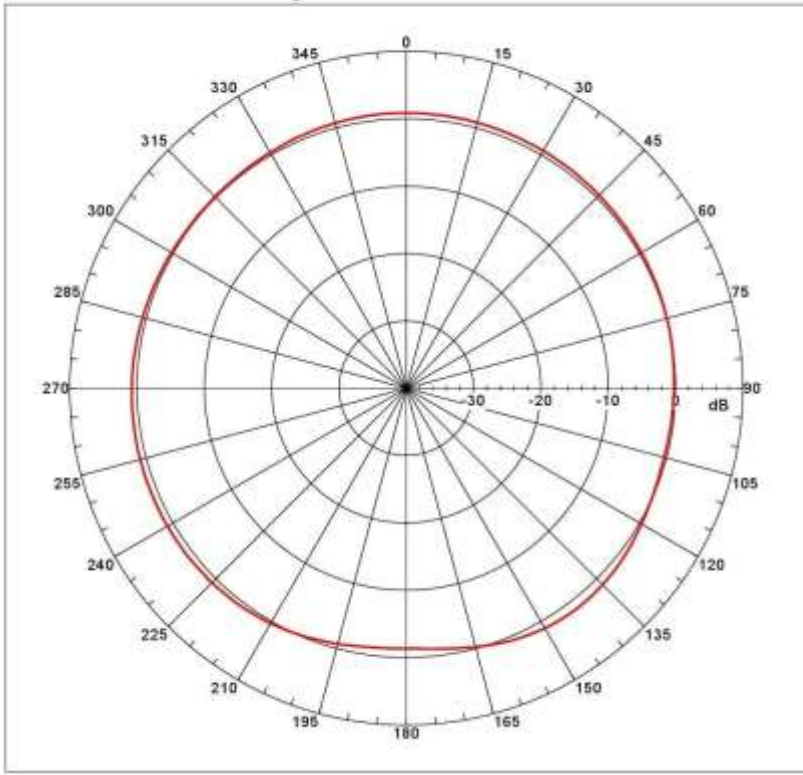


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Far-Field (dB): Principal Lobes, Tm = 0.000 deg
Gain = 0.7314 dB
Max Far-Field (global) = -42.01237 dB, Max Far-Field (plot) =
-42.01237 dB
Normalization: Reference, Network offset = 0.000 dB
Scale: x1 = 100.00000 dB, Tpeak: x1 = 0.000 deg
Plot: Scaling: 0x
    
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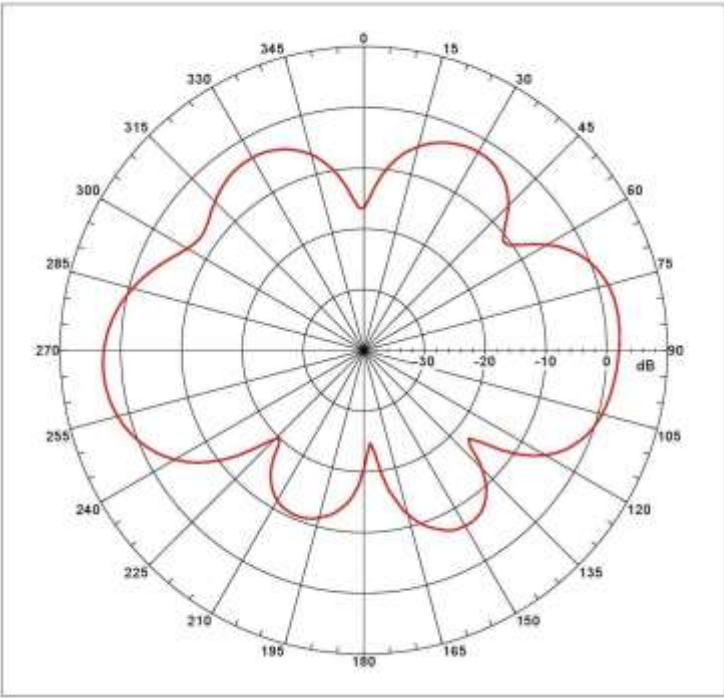
3010088 V4.0.126, Filename: C:\Documents and Settings\887\Desktop\28
22_GMSRRE-CL1
Measurement Date/Time: 5/13/2015 1:44:33 PM, Filetype: SMT-VT
Far-Field Cut Analysis:
Avg value: -4.551 dB
-1, dB beam width: 50.00 deg
+0, dB beam width: 51.42 deg
-13, dB beam width: 100.18 deg
Left Sidelobe: Not Found
Right Sidelobe: -1.24 dB at 25.140 deg
Far-Field Display Setup
Azimuth (deg)
Span = 310.00000 deg, Center = 0.000 deg, Steps = 101
Scale = 100.00000 deg, Step = 100.00000 deg, Delta = 2.000
Elev (deg)
Center = 0.000 deg, Steps = 1
Selected Beam(s): 1 of 5
Beam Frequency Azimuth Elevation Psi
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1. 0.000 GHz Azimuth Elevation Single-pol
    
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Far-Field magnitude, Eyrincipal: Linear, Tau = 0.000 deg
 Gain = 1.0239 dB
 Max Far-Field (global) = -41.36621 dB, Max Far-Field (plot) =
 -41.36621 dB
 Elevation: Reference, Network offset = 0.000 deg
 Peak at: 141.8595 deg, Tpeak at: 0.000 deg
 Plot centering: 0

811000 V4.0.124, Filemax: C:\Documents and Settings\BUI\Desktop\12
 12 00000\013
 Measurement date/time: 5/17/2010 5:50:40 PM, Filetype: 801-07
 Far-Field Cut Analysis:
 Amp Value: 1.167 dB
 -1. dB Beam Width: Not Found
 -2. dB Beam Width: Not Found
 -10. dB Beam Width: Not Found
 Left SideLobe: -0.09 dB at 25.162 deg
 Right SideLobe: Not Found
 Far-Field display setup
 Azimuth (deg)
 Span = 360.00001 deg, Center = 0.000 deg, Npts = 161
 Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.239
 deg
 Elevation (deg)
 Center = 0.000 deg, Npts = 1
 Selected beam(s): 1 of 1
 Beam Frequency Azimuth Elevation Pol

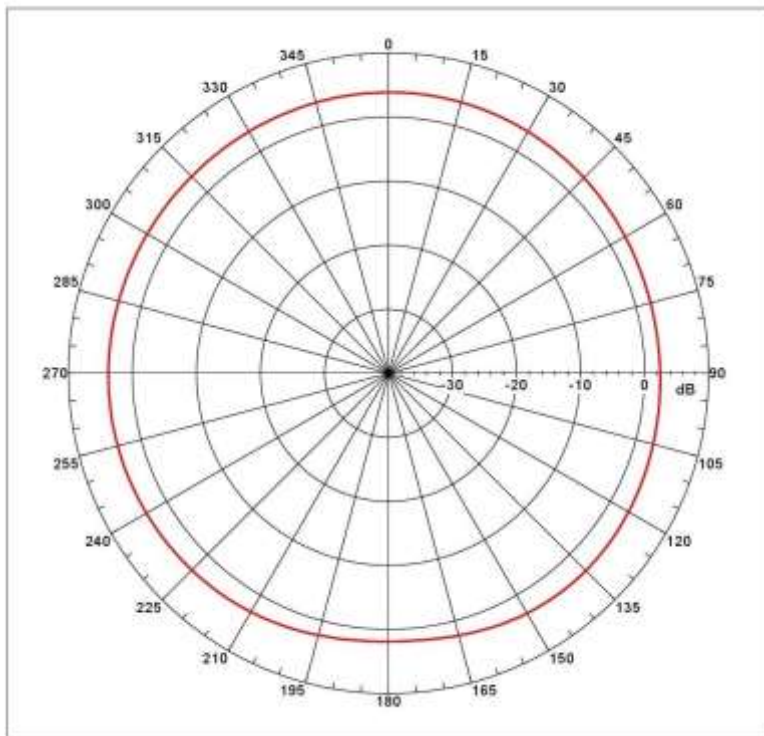
 1 0.842 GHz Azimuth Elevation Single-pol



Far-Field magnitude, Eyrincipal: Linear, Tau = 0.000 deg
 Gain = 2.9508 dB
 Max Far-Field (global) = -27.70145 dB, Max Far-Field (plot) =
 -27.70145 dB
 Elevation: Reference, Network offset = 0.000 deg
 Peak at: -94.89001 deg, Tpeak at: 0.000 deg
 Plot centering: 0

811000 V4.0.124, Filemax: C:\Documents and Settings\BUI\Desktop\12
 12 00000\013
 Measurement date/time: 1/20/2010 1:12:13 PM, Filetype: 801-07
 Far-Field Cut Analysis:
 Amp Value: -4.124 dB
 -1. dB Beam Width: 25.26 deg
 -2. dB Beam Width: 40.51 deg
 -10. dB Beam Width: 61.58 deg
 Left SideLobe: -13.82 dB at -157.877 deg
 Right SideLobe: -0.37 dB at -25.162 deg
 Far-Field display setup
 Azimuth (deg)
 Span = 360.00001 deg, Center = 0.000 deg, Npts = 161
 Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.239
 deg
 Elevation (deg)
 Center = 0.000 deg, Npts = 1
 Selected beam(s): 1 of 1
 Beam Frequency Azimuth Elevation Pol

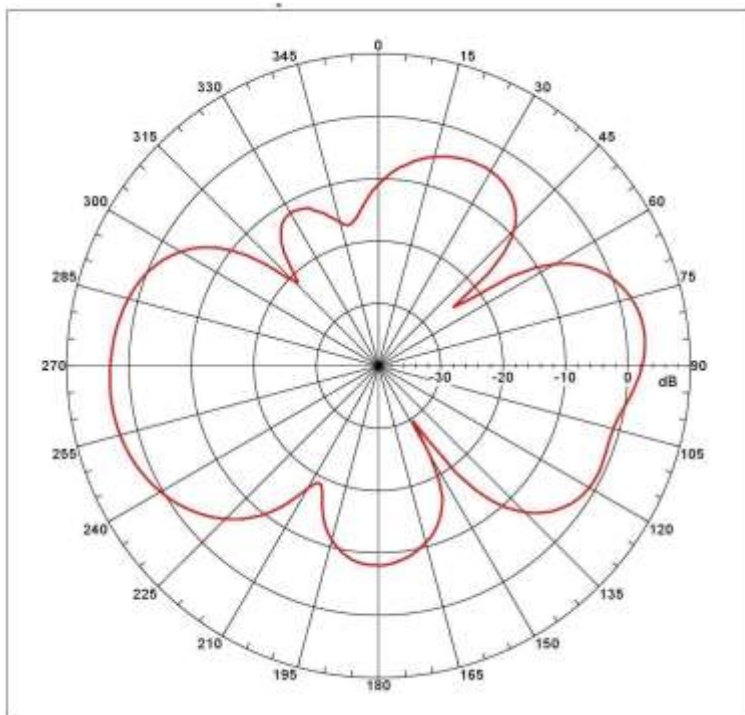
 1 0.840 GHz Azimuth Elevation Single-pol



Far-field amplitude, Principal: Linear, Tilt = 0.000 deg
 Gain = 3.2340E dB
 Max Far-Field (global) = -30.5387 dB, Max Far-Field (port) =
 -30.5387 dB
 Normalization Reference, Network offset = 0.000 dB
 Sweep start = 0.0000E deg, Sweep end = 0.000 deg
 Plot centering: 0a

File-Name
 File: C:\Users\user\Documents and Settings\user\Desktop\12
 030001.cpl
 Measurement date/time: 1/27/2018 1:00:18 PM, Filetype: S11-SV
 Far-Field Cut Analysis:
 Amp value: 1.215 dB
 -3 dB beam width: Not Found
 -6 dB beam width: Not Found
 -10 dB beam width: Not Found
 Left Side-lobe: Not Found
 Right Side-lobe: -2.20 dB at 133.703 deg
 Far-Field display setup
 Azimuth (deg):
 Span = 180.0000E deg, Center = 0.000 deg, Steps = 181
 Start = -180.0000E deg, Stop = 180.0000E deg, Delta = 2.000
 deg
 Elevation (deg):
 Center = 0.000 deg, Steps = 1

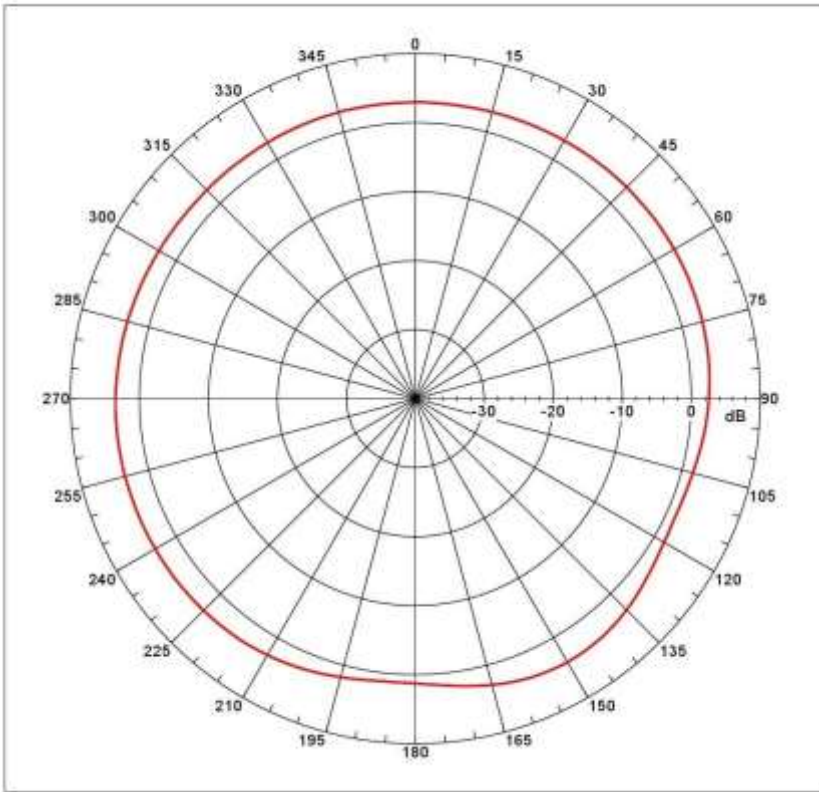
Selected Azimuth: 1 of 1
 Beam Frequency Azimuth Elevation Pol
 1 0.000 GHz Azimuth Elevation Single-pol



Far-field amplitude, Principal: Linear, Tilt = 0.000 deg
 Gain = 3.1011E dB
 Max Far-Field (global) = -18.0000 dB, Max Far-Field (port) =
 -18.0000 dB
 Normalization Reference, Network offset = 0.000 dB
 Sweep start = 0.0000E deg, Sweep end = 0.000 deg
 Plot centering: 0a

File-Name
 File: C:\Users\user\Documents and Settings\user\Desktop\12
 030001.cpl
 Measurement date/time: 1/13/2018 1:44:53 PM, Filetype: S11-SV
 Far-Field Cut Analysis:
 Amp value: -8.100 dB
 -2 dB beam width: 92.12 deg
 -6 dB beam width: 10.77 deg
 -10 dB beam width: 50.20 deg
 Left Side-lobe: -11.78 dB at -177.900 deg
 Right Side-lobe: -14.50 dB at -78.182 deg
 Far-Field display setup
 Azimuth (deg):
 Span = 180.0000E deg, Center = 0.000 deg, Steps = 181
 Start = -180.0000E deg, Stop = 180.0000E deg, Delta = 2.000
 deg
 Elevation (deg):
 Center = 0.000 deg, Steps = 1

Selected Azimuth: 1 of 1
 Beam Frequency Azimuth Elevation Pol
 1 0.000 GHz Azimuth Elevation Single-pol



Far-field analysis, Principal Lobes, $\theta_{max} = 0.000$ deg
 Gain = 4.00377 dBi
 Max far-field (global) = -17.47591 dB, Max far-field (plot) =
 -17.47591 dB
 Normalization Reference, Network return = 0.000 dB
 Azimuth: 150.000 deg, Sweep at: 0.000 deg
 Plot Smoothing: On

301008 Fri Jun 15, File Name: C:\Documents and Settings\MSI\Desktop\28
 11_GEMSE-CL1
 Measurement Date/Time: 5/13/2015 3:10:40 PM, Filetype: S11-S
 Far-Field Cut Analysis
 Avg value: 2.510 dB
 -3 dB beam width: Not Found
 -6 dB beam width: Not Found
 -10 dB beam width: Not Found
 Left Sidelobe: -2.70 dB at 83.078 deg
 Right Sidelobe: Not Found
 Far-Field Display Setup
 Azimuth (deg)
 Span = 310.00000 deg, Center = 0.000 deg, Steps = 101
 Start = -150.00000 deg, Stop = 150.00000 deg, Delta = 2.000
 deg
 Elevation (deg)
 Center = 0.000 deg, Steps = 1
 Selected Beam(s) 1 of 5

Beam	Frequency	Azimuth	Elevation	Gain
1	0.900 GHz	0.000 deg	0.000 deg	4.00377 dBi