GSM ANTENNA

Antenna GSM Adhesive 25, 2.5 dBi, SMA(m), RG174U/3m

AO-AGSM-SA1S

SECTRON company offers wide portfolio GSM antennas with various versions differing in shape, level of gain or attachment manner. SECTRON guarantees compatible connection between antenna and all antenna adaptors produced by SECTRON.

BENEFITS

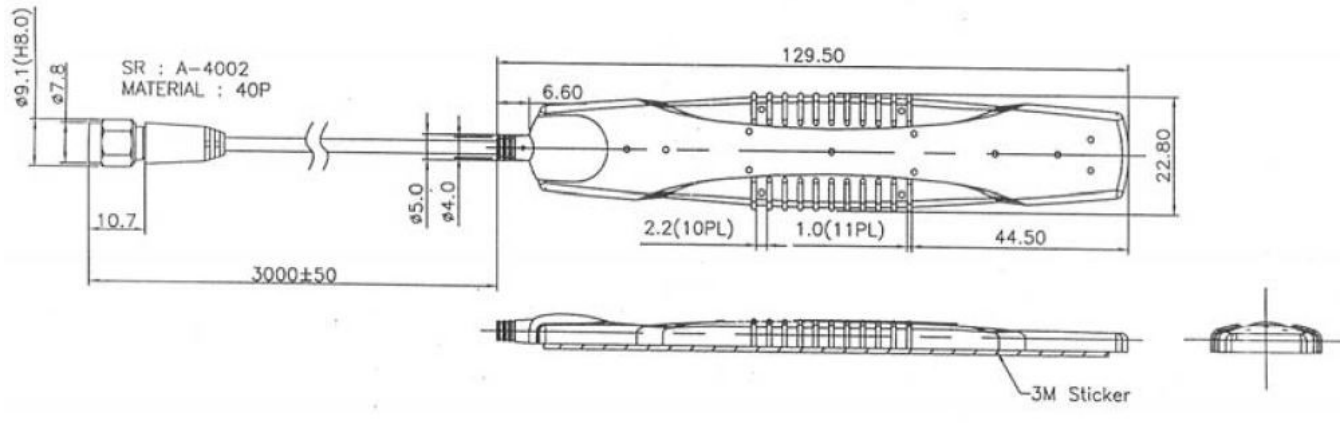
- Low VSWR
- Easy installation
- Omnidirectional - suitable for moving devices

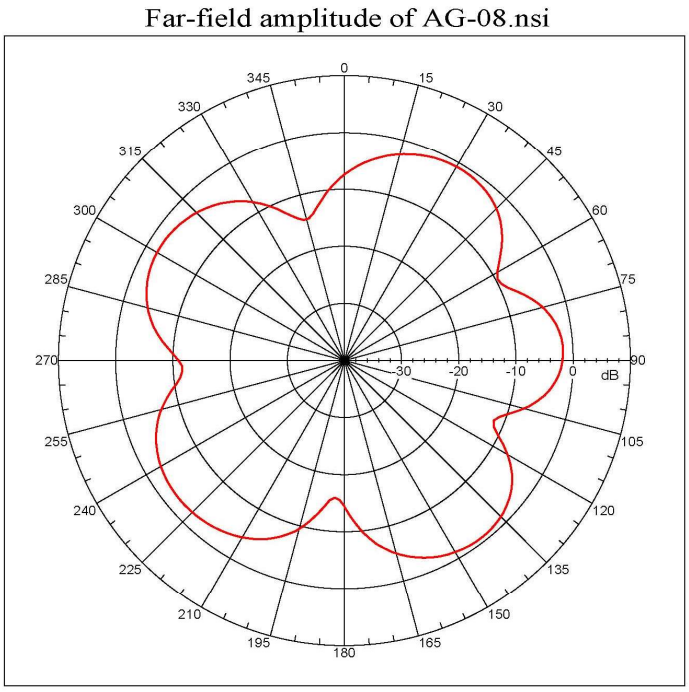
FEATURES

AO-AGSM-SA1S

Technology	GSM
Frequency bands	800/900/1700/1800 MHz
Bandwidth	-
Gain	2.5 dBi
VSWR	<2.0: 1
Impedance	50 ohm
Directivity	Omnidirectional
Beam angle	H 360° V 30°
Polarization	Vertical
Maximum input power	10 W
Power voltage	-
Dimensions	129.5 x 22.8 x 6.7 mm
Weight	52.75 g
Operating temperature	-30 to +80 ° C
Execution	External
Method of attachment	Adhesive
Cable type	RG174 / U
The cable length	3 m
Connector type	SMA(m)

DRAWING



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Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -0.78415  dBi
Max far-field (global) = -41.71016  dB, Max far-field (plot) =
-41.7102  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 141.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

AG-08E-Plane cut scan. Feeding cable at bottom side around RJC
been covered by  absorber to reduce possible coupling with
AUT.

NSI2000 V4.0.124, Filename:C:\nsi2000\T.Y.HUS\PF-28A\AG-08.nsi
Measurement date/time: 5/17/2007 4:32:48 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.846 dB
   -3. dB beam width: 35.82 deg
   -6. dB beam width: 48.73 deg
   -10. dB beam width: 60.67 deg
   Left Sidelobe: -0.96 dB at 87.486  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 6
Beam    Frequency   Azimuth  Elevation  Pol
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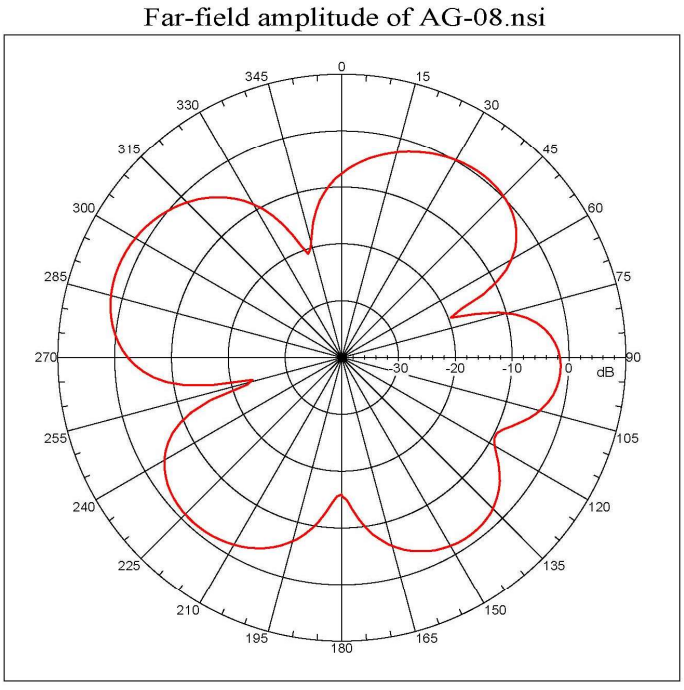
1       0.880  GHz  Azimuth  Elevation  Single-pol
```

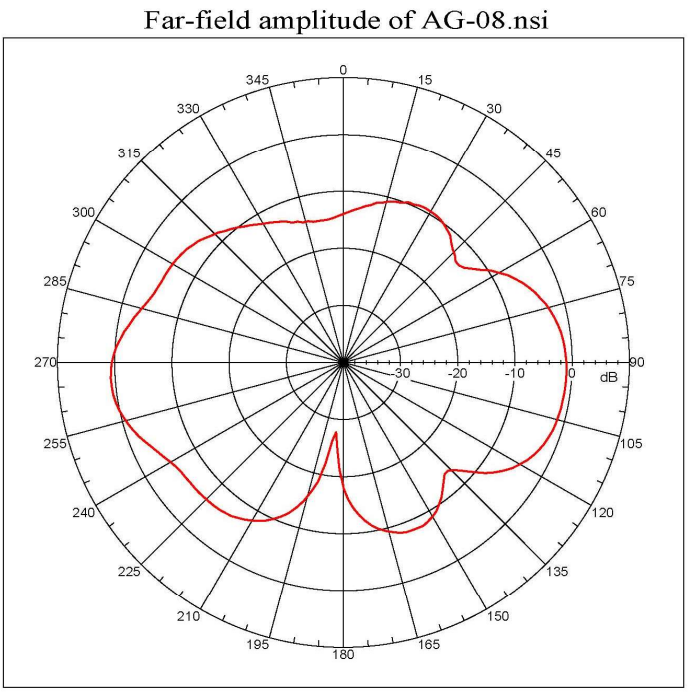



```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 2.43511  dBi
Max far-field (global) = -40.19456  dB, Max far-field (plot) =
-40.19457  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -68.000  deg, Vpeak at: 0.000  deg
Plot centering: On

AG-08E-Plane cut scan. Feeding cable at bottom side around RJC
been covered by  absorber to reduce possible coupling with
AUT.

NSI2000 V4.0.124, Filename:C:\nsi2000\T.Y.HUS\PF-28A\AG-08.nsi
Measurement date/time: 5/17/2007 4:32:48 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -3.720 dB
   -3. dB beam width: 38.56 deg
   -6. dB beam width: 52.85 deg
   -10. dB beam width: 65.24 deg
   Left Sidelobe: -3.39 dB at -137.765  deg
   Right Sidelobe: -1.84 dB at 39.218  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 6
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
3       0.960  GHz  Azimuth  Elevation  Single-pol
```




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 0.74775  dBi
Max far-field (global) = -44.30258  dB, Max far-field (plot) =
-44.30263  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -94.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

AG-08E-Plane cut scan. Feeding cable at bottom side around RJC
been covered by  absorber to reduce possible coupling with
AUT.

NSI2000 V4.0.124, Filename:C:\nsi2000\T.Y.HUS\PF-28A\AG-08.nsi
Measurement date/time: 5/17/2007 4:32:48 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -6.658 dB
   -3. dB beam width: 31.71 deg
   -6. dB beam width: 55.67 deg
   -10. dB beam width: 113.54 deg
   Left Sidelobe: Not Found
   Right Sidelobe: -10.17 dB at 29.162  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 6
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
4       1.710  GHz  Azimuth  Elevation  Single-pol
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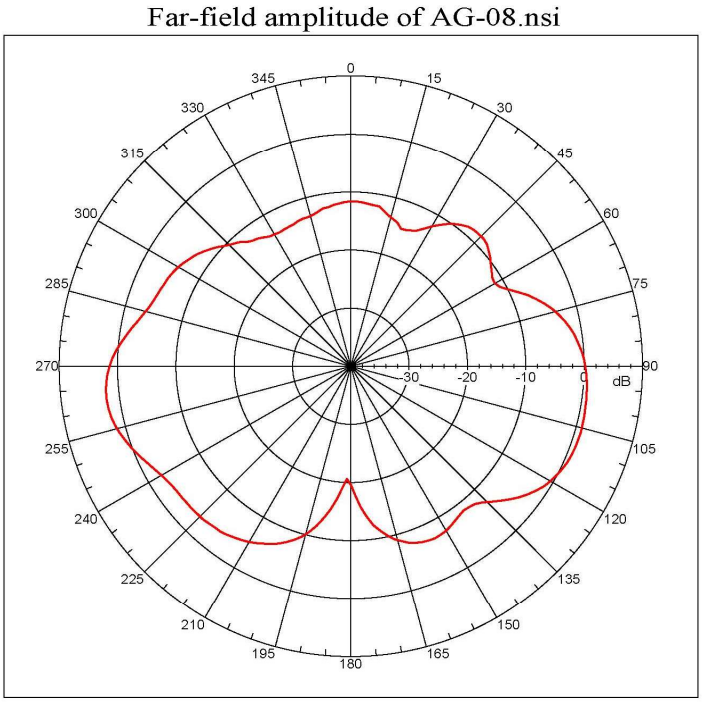


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Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 2.23256  dBi
Max far-field (global) = -44.30981  dB, Max far-field (plot) =
-44.30983  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -98.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

AG-08E-Plane cut scan. Feeding cable at bottom side around RJC
been covered by  absorber to reduce possible coupling with
AUT.

NSI2000 V4.0.124, Filename:C:\nsi2000\T.Y.HUS\PF-28A\AG-08.nsi
Measurement date/time: 5/17/2007 4:32:48 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -5.331 dB
   -3. dB beam width: 30.47 deg
   -6. dB beam width: 65.56 deg
   -10. dB beam width: 107.67 deg
   Left Sidelobe: Not Found
   Right Sidelobe: -13.91 dB at 3.017  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 6
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
5       1.800  GHz  Azimuth  Elevation  Single-pol
```

ALL VARIANTS

VARIANT	PART NUMBER
Antenna GSM Adhesive 25/open, 2.5dBi, RG174/3m	AO-AGSM-SA1
Antenna GSM Adhesive 25, 2.5dBi, MMCX(m)R/A, RG174 2m	AO-AGSM-SA1C
Antenna GSM Adhesive 25, 2.5dBi, FME(f), RG174/3m	AO-AGSM-SA1F
Antenna GSM Adhesive 25, 2.5dBi, MCX(m)R/A, RG174/40cm	AO-AGSM-SA1M
Antenna GSM Adhesive 25, 2.5dBi, SMA(m), RG174U/3m	AO-AGSM-SA1S

CONTACTS

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