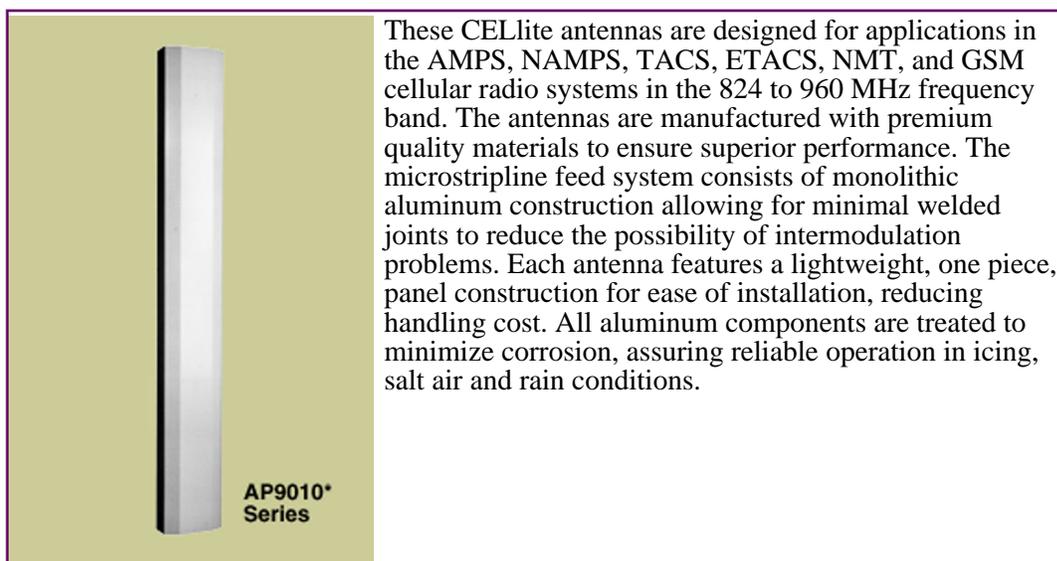


## **Annex I**

### **Specification Sheet for Celwave 800 MHz Antenna (Model No. AP901011-1)**

# CELLite® Directional Panel Antenna

## Product Data Sheet for AP901011-1



### Product Specifications

<b>Frequency Band</b>	900 Trunking (896-901, 935-940 MHz), Cellular (824-849, 869-894 MHz), GSM/ETACS (872-915, 917-960MHz), Paging (901-902, 928-932, 940-941 MHz), Trunking/SMR (806-824, 851-869 MHz)
<b>Horizontal Pattern</b>	Directional
<b>Antenna Type</b>	Panel
<b>Gain dBd (dBi)</b>	10.5 (12.6)
<b>Frequency Range - MHz</b>	824-960
<b>Connector Type</b>	7-16 DIN-Female
<b>Mount Type</b>	downtilt
<b>Electrical Tilt - Degrees</b>	0
<b>Horizontal Beamwidth in Degrees at 3 dB, 1/2 Power Points</b>	105
<b>Mounting Hardware - Supplied</b>	Downtilt Bracket APM1-1
<b>Rated Wind Speed - mph (km/hr)</b>	125 (200)
<b>Bandwidth - MHz for 1.5:1 VSWR</b>	136
<b>Vertical Beamwidth in Degrees at 3 dB, 1/2 Power Points</b>	17.5
<b>Polarization</b>	Vertical
<b>Front-To-Back Ratio - dB</b>	>23
<b>Maximum Power Input - Watts</b>	1000

## CELLite® Directional Panel Antenna

### Product Data Sheet for AP901011-1 (Cont.)

<b>Lightning Protection</b>	Direct Ground
<b>3rd Order IMD @ 2 x 43 dBm: - dBc</b>	< -150
<b>Dimensions - WxDxH - in. (mm)</b>	10.4 x 5.1 x 39 (265 x 130 x 987)
<b>Weight w/o Mtg. Hardware - lbs. (kg)</b>	10.8 (4.9)
<b>Radiating Element Material</b>	Aluminum (AlMg3)
<b>Radome Material</b>	UV Resistant - ASA
<b>Reflector Material</b>	Aluminum
<b>Max Wind Loading Area (Flat Plate Equivalent) - ft<sup>2</sup> (m<sup>2</sup>)</b>	2.82 (0.26)
<b>Maximum Thrust @ Rated Wind - lbf (N)</b>	176.0 (783.1)
<b>Side Wind Loading Area (FPE) - ft<sup>2</sup> (m<sup>2</sup>)</b>	1.38 (0.13)
<b>Side Thrust @ Rated Wind - lbf (N)</b>	86.3 (384.0)
<b>Shipping Dimensions of Antenna - WxDxH - in. (mm)</b>	11.6 X 9.8 X 46.9 (295 X 250 X 1190)
<b>Shipping Dimensions of Accessory - WxDxH - ft. (m)</b>	Packed w/antenna
<b>Shipping Mode</b>	UPS

### Features/Benefits

- **Broadband**  
One antenna covers the entire band.
- **Monolithic construction**  
Reduces IM.
- **UV stabilized radome**  
Protects radiating elements from hostile environments.
- **Surface treated components**  
To prevent galvanic corrosion.
- **High front-to-back ratio**  
Ensures effective isolation from adjacent systems.

### Note

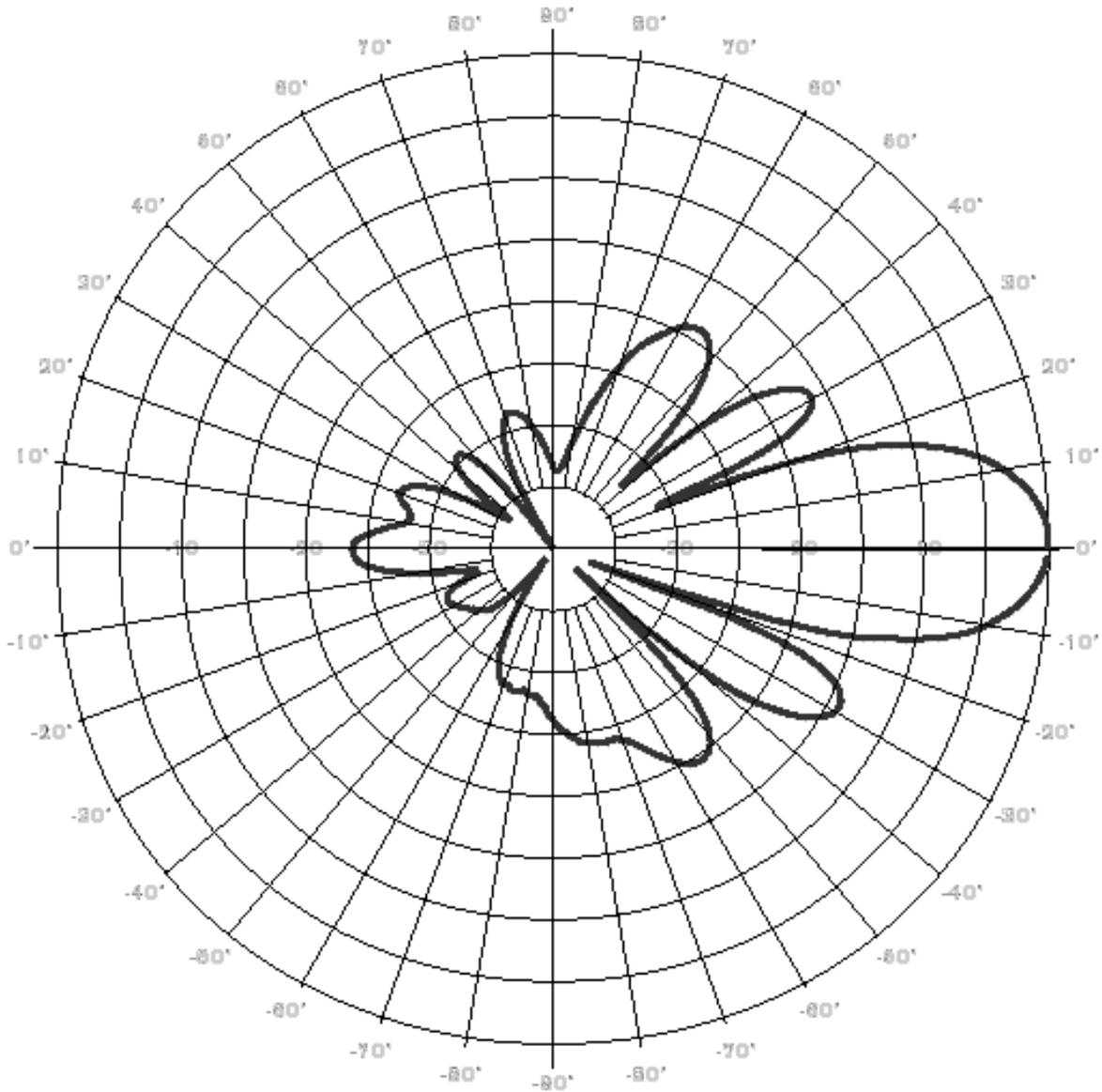
Note: \*VSWR 1.3:1 (869-960 MHz)

# CELLite® Directional Panel Antenna

## Product Data Sheet for AP901011-1 (Cont.)

### Vertical Pattern

(This is a general representation of the antenna family pattern. For the latest detailed pattern contact Applications Engineering. You may also download the CELplot(TM) pattern reader and antenna pattern data fields from our website.)



# CELLite® Directional Panel Antenna

## Product Data Sheet for AP901011-1 (Cont.)

### Horizontal Pattern

(This is a general representation of the antenna family pattern. For the latest detailed pattern contact Applications Engineering. You may also download the CELplot(TM) pattern reader and antenna pattern data fields from our website.)

