

## CELLite® Fixed Tilt Antennas

**Polarization:** Vertical

**Electrical Downtilt:** Fixed

**Horizontal beamwidth:** 65° or 90°

### Applications

This well-known range of fixed tilt antennas are vertically polarized for space diversity with an option of 65° or 90 degree horizontal beamwidths for use in the following systems:

Trunking / SMR (806-824, 851-869MHz)

Cellular (824-849, 869-894MHz)

GSM900 / ETACS (872-915, 917-960MHz)

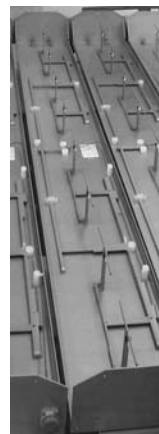
Due to its monolithic mechanical design these highly reliable antennas are IM3 free with extremely stable ageing. CELLite antennas are available in a variety of gain options varying from 14.5 to 17.5 dBi with mechanical downtilt mount option. These antennas are covered by a UV resistant ASA radome and have one 7-16 connectors mounted at the back. They are all designed for use with our new APM40 Global Mount system / APM70-3C cluster kit.

### Features & Benefits

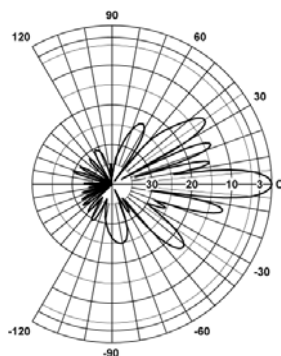
- High gain
- Stable horizontal and vertical beamwidths
- Optimized null fill
- Good Front-to-Back ratio
- Fast horizontal pattern roll-off
- Efficient co-site interference reduction
- Broadband bandwidth allowing installation on all cellular standards (AP90 Series)
- Very low visual impact
- Low wind load



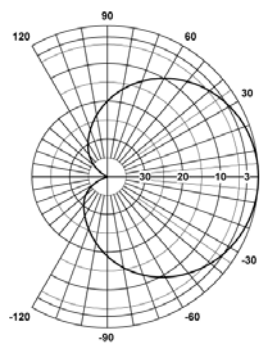
AP909016-T0 Series



### Typical Patterns



Vertical Pattern



Horizontal Pattern

## CELLite® Fixed Tilt Antennas

### AP866513-CT0

**Horizontal Beamwidth, deg** 65

**Gain, dBi** 14.5

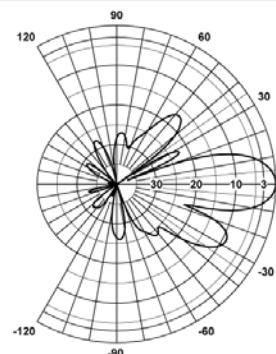
**Electrical Downtilt, deg** 0

#### ELECTRICAL SPECIFICATIONS

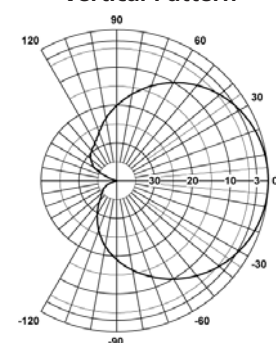
Frequency Range, MHz	806-894
Horizontal Beamwidth, deg	65
Vertical Beamwidth, deg	18
Gain, dBi (dBd)	14.5 (12.4)
Front-To-Back Ratio, dB	> 30 (Typ.35)
VSWR	< 1.5:1
Maximum Power Input, W	1000
Polarization	Vertical
3rd Order IMP @ 2 x 43 dBm, dBc	> 150

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	987 x 265 x 130 (38.84 x 10.43 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m <sup>2</sup> (ft <sup>2</sup> )	0.26 (2.8)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	170 (38)
Front Thrust @ Rated Wind, N (lbf)	170 (38)
Reflector Material	Aluminum
Radiating Element Material	Aluminum
Radome Material	UV Resistant ASA
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	5.5 (12.1)
Packing Dimensions - HxWxD, m (ft)	1.1 x 0.3 x 0.2 (3.6 x 0.99 x 0.73)
Packing Dimensions, HxWxD, mm (in)	1120 x 300 x 220 (44.07 x 11.81 x 8.66)



Vertical Pattern



Horizontal Pattern

### AP866516-CT0

**Horizontal Beamwidth, deg** 65

**Gain, dBi** 17

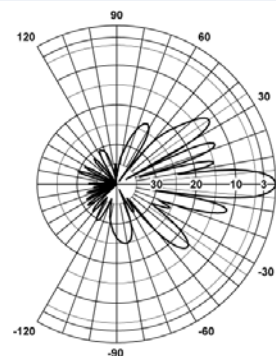
**Electrical Downtilt, deg** 0

#### ELECTRICAL SPECIFICATIONS

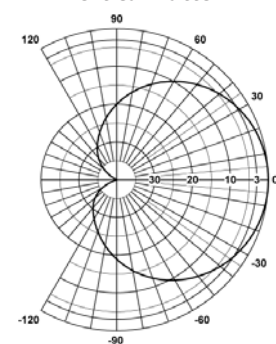
Frequency Range, MHz	806-894
Horizontal Beamwidth, deg	65
Vertical Beamwidth, deg	9
Gain, dBi (dBd)	17 (14.9)
Front-To-Back Ratio, dB	> 30 (Typ.35)
VSWR	< 1.5:1
Maximum Power Input, W	1000
Polarization	Vertical
3rd Order IMP @ 2 x 43 dBm, dBc	> 150

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	1977 x 265 x 130 (77.79 x 10.43 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m <sup>2</sup> (ft <sup>2</sup> )	0.52 (5.61)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	555 (125)
Front Thrust @ Rated Wind, N (lbf)	555 (125)
Reflector Material	Aluminum
Radiating Element Material	Aluminum
Radome Material	UV Resistant ASA
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	10.9 (23.98)
Packing Dimensions - HxWxD, m (ft)	2.1 x 0.3 x 0.2 (6.9 x 0.99 x 0.73)
Packing Dimensions, HxWxD, mm (in)	2115 x 300 x 220 (83.23 x 11.81 x 8.66)



Vertical Pattern



Horizontal Pattern

## CELLite® Fixed Tilt Antennas

### AP869011-CT0

**Horizontal Beamwidth, deg** 90

**Gain, dBi** 13.3

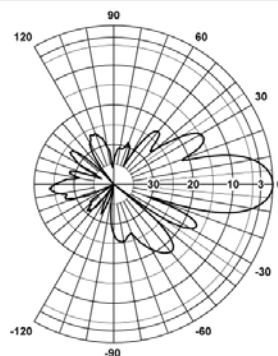
**Electrical Downtilt, deg** 0

#### ELECTRICAL SPECIFICATIONS

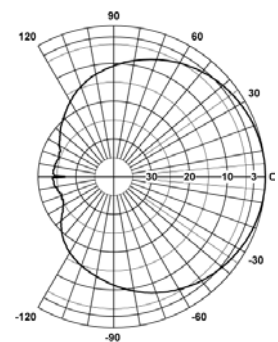
Frequency Range, MHz	806-894
Horizontal Beamwidth, deg	90
Vertical Beamwidth, deg	17.5
Gain, dBi (dBd)	13.3 (11.2)
Front-To-Back Ratio, dB	> 25
VSWR	< 1.5:1
Maximum Power Input, W	1000
Polarization	Vertical
3rd Order IMP @ 2 x 43 dBm, dBc	> 150

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	987 x 265 x 130 (38.84 x 10.43 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m <sup>2</sup> (ft <sup>2</sup> )	0.26 (2.8)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	170 (38)
Front Thrust @ Rated Wind, N (lbf)	170 (38)
Reflector Material	Aluminum
Radiating Element Material	Aluminum
Radome Material	UV Resistant ASA
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	5 (11)
Packing Dimensions - HxWxD, m (ft)	1.1 x 0.3 x 0.2 (3.6 x 0.99 x 0.73)
Packing Dimensions, HxWxD, mm (in)	1120 x 300 x 220 (44.07 x 11.81 x 8.66)



Vertical Pattern



Horizontal Pattern

### AP869014-CT0

**Horizontal Beamwidth, deg** 90

**Gain, dBi** 15.3

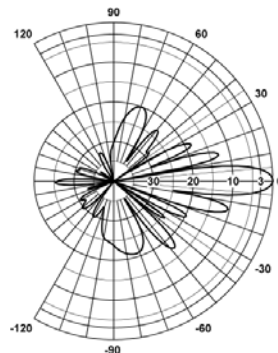
**Electrical Downtilt, deg** 0

#### ELECTRICAL SPECIFICATIONS

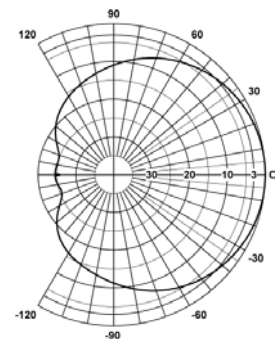
Frequency Range, MHz	806-894
Horizontal Beamwidth, deg	90
Vertical Beamwidth, deg	9
Gain, dBi (dBd)	15.3 (13.2)
Front-To-Back Ratio, dB	> 25
VSWR	< 1.5:1
Maximum Power Input, W	1000
Polarization	Vertical
3rd Order IMP @ 2 x 43 dBm, dBc	> 150

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	1977 x 265 x 130 (77.79 x 10.43 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m <sup>2</sup> (ft <sup>2</sup> )	0.52 (5.61)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	555 (125)
Front Thrust @ Rated Wind, N (lbf)	555 (125)
Reflector Material	Aluminum
Radiating Element Material	Aluminum
Radome Material	UV Resistant ASA
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	10.9 (23.98)
Packing Dimensions - HxWxD, m (ft)	2.1 x 0.3 x 0.2 (6.9 x 0.99 x 0.73)
Packing Dimensions, HxWxD, mm (in)	2115 x 300 x 220 (83.23 x 11.81 x 8.66)



Vertical Pattern



Horizontal Pattern

## CELLite® Fixed Tilt Antennas

### AP906513-CT0

**Horizontal Beamwidth, deg** 65

**Gain, dBi** 15.5

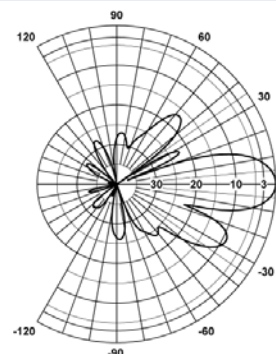
**Electrical Downtilt, deg** 0

#### ELECTRICAL SPECIFICATIONS

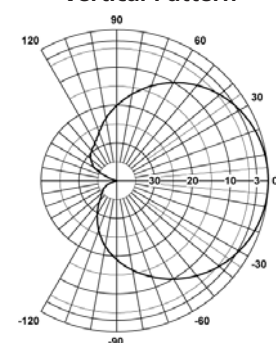
Frequency Range, MHz	824-894	872-960
Horizontal Beamwidth, deg	65	
Vertical Beamwidth, deg	17	
Gain, dBi (dBd)	14.5 (12.4)	15.5 (13.4)
Front-To-Back Ratio, dB	> 30 (Typ.35)	
VSWR	< 1.5:1	< 1.3:1
Maximum Power Input, W	1000	
Polarization	Vertical	
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	987 x 265 x 130 (38.84 x 10.43 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m² (ft²)	0.26 (2.8)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	170 (38)
Front Thrust @ Rated Wind, N (lbf)	170 (38)
Reflector Material	Aluminum
Radiating Element Material	Aluminum
Radome Material	UV Resistant ASA
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	5.5 (12.1)
Packing Dimensions - HxWxD, m (ft)	1.1 x 0.3 x 0.2 (3.6 x 0.99 x 0.73)
Packing Dimensions, HxWxD, mm (in)	1120 x 300 x 220 (44.07 x 11.81 x 8.66)



Vertical Pattern



Horizontal Pattern

### AP906516-CT0

**Horizontal Beamwidth, deg** 65

**Gain, dBi** 17.5

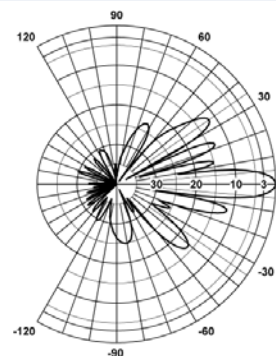
**Electrical Downtilt, deg** 0

#### ELECTRICAL SPECIFICATIONS

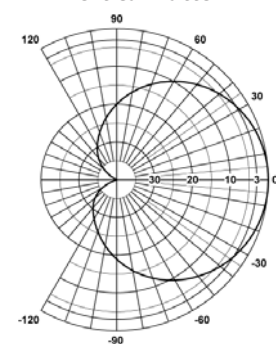
Frequency Range, MHz	824-894	872-960
Horizontal Beamwidth, deg	65	
Vertical Beamwidth, deg	8.5	
Gain, dBi (dBd)	17 (14.9)	17.5 (15.4)
Front-To-Back Ratio, dB	> 30 (Typ.35)	
VSWR	< 1.5:1	< 1.3:1
Maximum Power Input, W	1000	
Polarization	Vertical	
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	1977 x 265 x 130 (77.79 x 10.43 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m² (ft²)	0.52 (5.61)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	555 (125)
Front Thrust @ Rated Wind, N (lbf)	555 (125)
Reflector Material	Aluminum
Radiating Element Material	Aluminum
Radome Material	UV Resistant ASA
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	10.9 (23.98)
Packing Dimensions - HxWxD, m (ft)	2.1 x 0.3 x 0.2 (6.9 x 0.99 x 0.73)
Packing Dimensions, HxWxD, mm (in)	2115 x 300 x 220 (83.23 x 11.81 x 8.66)



Vertical Pattern



Horizontal Pattern

## CELLite® Fixed Tilt Antennas

### AP909011-CT0

**Horizontal Beamwidth, deg** 90

**Gain, dBi** 13.5

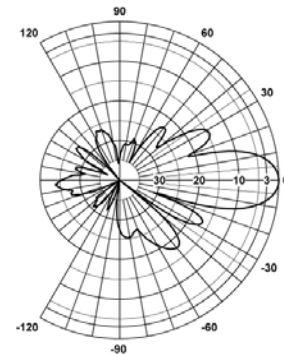
**Electrical Downtilt, deg** 0

#### ELECTRICAL SPECIFICATIONS

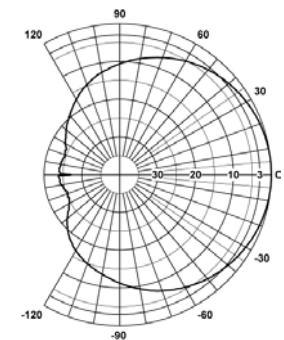
Frequency Range, MHz	824-894	872-960
Horizontal Beamwidth, deg	90	
Vertical Beamwidth, deg	17.5	
Gain, dBi (dBd)	13.3 (11.2)	13.5 (11.4)
Front-To-Back Ratio, dB	> 25	
VSWR	< 1.5:1	< 1.3:1
Maximum Power Input, W	1000	
Polarization	Vertical	
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	987 x 265 x 130 (38.84 x 10.43 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m <sup>2</sup> (ft <sup>2</sup> )	0.26 (2.8)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	170 (38)
Front Thrust @ Rated Wind, N (lbf)	170 (38)
Reflector Material	Aluminum
Radiating Element Material	Aluminum
Radome Material	UV Resistant ASA
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	5 (11)
Packing Dimensions - HxWxD, m (ft)	1.1 x 0.3 x 0.2 (3.6 x 0.99 x 0.73)
Packing Dimensions, HxWxD, mm (in)	1120 x 300 x 220 (44.07 x 11.81 x 8.66)



Vertical Pattern



Horizontal Pattern

### AP909014-CT0

**Horizontal Beamwidth, deg** 90

**Gain, dBi** 16

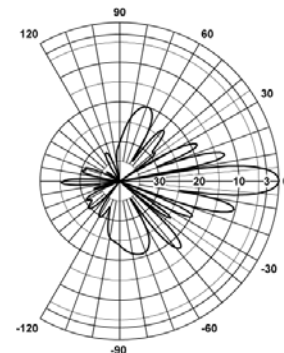
**Electrical Downtilt, deg** 0

#### ELECTRICAL SPECIFICATIONS

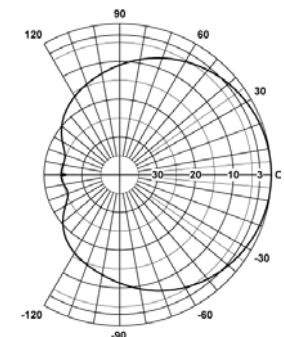
Frequency Range, MHz	824-894	872-960
Horizontal Beamwidth, deg	90	
Vertical Beamwidth, deg	8.5	
Gain, dBi (dBd)	15.5 (13.4)	16 (13.9)
Front-To-Back Ratio, dB	> 25	
VSWR	< 1.5:1	< 1.3:1
Maximum Power Input, W	1000	
Polarization	Vertical	
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	1977 x 265 x 130 (77.79 x 10.43 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m <sup>2</sup> (ft <sup>2</sup> )	0.52 (5.61)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	555 (125)
Front Thrust @ Rated Wind, N (lbf)	555 (125)
Reflector Material	Aluminum
Radiating Element Material	Aluminum
Radome Material	UV Resistant ASA
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	10.9 (23.98)
Packing Dimensions - HxWxD, m (ft)	2.1 x 0.3 x 0.2 (6.9 x 0.99 x 0.73)
Packing Dimensions, HxWxD, mm (in)	2115 x 300 x 220 (83.23 x 11.81 x 8.66)



Vertical Pattern



Horizontal Pattern



## CELLite® Fixed Tilt Antennas

### AP909016-CT0

**Horizontal Beamwidth, deg** 90

**Gain, dBi** 17.3

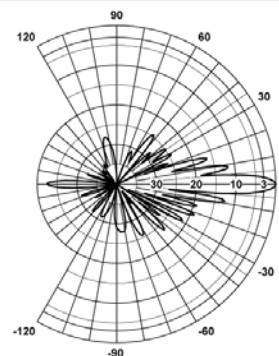
**Electrical Downtilt, deg** 0

#### ELECTRICAL SPECIFICATIONS

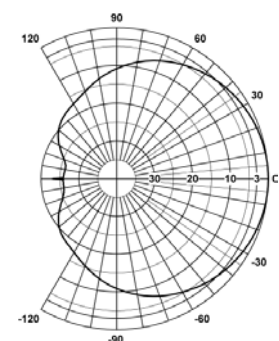
Frequency Range, MHz	824-894	872-960
Horizontal Beamwidth, deg	90	
Vertical Beamwidth, deg	5.5	
Gain, dBi (dBd)	17.3 (15.2)	
Front-To-Back Ratio, dB	> 25	
VSWR	< 1.5:1	< 1.3:1
Maximum Power Input, W	1000	
Polarization	Vertical	
3rd Order IMP @ 2 x 43 dBm, dBc	> 150	

#### MECHANICAL SPECIFICATIONS

Dimensions - HxWxD, mm (in)	2940 x 265 x 130 (115.7 x 10.43 x 5.12)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m² (ft²)	0.78 (8.34)
Rated Wind Speed, km/h (mph)	160 (100)
Maximum Thrust @ Rated Wind, N (lbf)	850 (191)
Front Thrust @ Rated Wind, N (lbf)	850 (191)
Reflector Material	Aluminum
Radiating Element Material	Aluminum
Radome Material	UV Resistant ASA
Radome Color	Light Grey RAL7035
Weight w/o Mtg Hardware, kg (lb)	15 (33)
Packing Dimensions - HxWxD, m (ft)	2.9 x 0.3 x 0.23 (9.6 x 0.99 x 0.76)
Packing Dimensions, HxWxD, mm (in)	2975 x 300 x 250 (117.1 x 11.81 x 9.84)



**Vertical Pattern**



**Horizontal Pattern**