

# Product Specifications

## CELLMAX-EXT-CPUSE

Cell-Max™ Directional Outdoor Antenna, 698–960 MHz and 1710–2700 MHz



## CHARACTERISTICS

### General Specifications

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Antenna Type	Directional
Operating Frequency Band	1710 – 2700 MHz   698 – 960 MHz
Brand	Cell-Max™
Color	White
Interface	7-16 DIN Female
Package Quantity	1
Radome Color	White
Radome Material	PVC, UV resistant

### Electrical Specifications

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Operating Frequency Band	698 – 800 MHz
3rd Order IMD	-150 dBc (relative to carrier)
3rd Order IMD Test Method	Two +43 dBm carriers
Beamwidth, Horizontal	66°–76°
Beamwidth, Vertical	31°–41°
Front-to-Back Ratio, minimum	20 dB
Gain at Frequency Band	10.0 dBi @ 698–800 MHz
Gain Tolerance	±1.5 dBi
Impedance	50 ohm
Input Power, maximum	100 W
Lightning Protection	dc Ground
Polarization	Vertical
Return Loss	10.9 dB
VSWR	1.8:1

### Electrical Specifications (Band 2)

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Operating Frequency Band	800 – 960 MHz
3rd Order IMD	-150 dBc (relative to carrier)

# Product Specifications



CELLMAX-EXT-CPUSE

3rd Order IMD Test Method	Two +43 dBm carriers
Beamwidth, Horizontal	59°–69°
Beamwidth, Vertical	25°–35°
Front-to-Back Ratio, minimum	20 dB
Gain at Frequency Band	11.4 dBi @ 800–960 MHz
Gain Tolerance	±1.5 dBi
Return Loss at Frequency Band	10.9 dB
VSWR	1.8:1

## Electrical Specifications (Band 3)

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Operating Frequency Band	1710 – 2200 MHz
3rd Order IMD	-150 dBc (relative to carrier)
3rd Order IMD Test Method	Two +43 dBm carriers
Beamwidth, Horizontal	60°–78°
Beamwidth, Vertical	25°–35°
Front-to-Back Ratio, minimum	20 dB
Gain at Frequency Band	11.0 dBi @ 1710–2200 MHz
Gain Tolerance	±1.5 dBi
Input Power, maximum	100 W
Lightning Protection	dc Ground
Polarization	Vertical
Return Loss	10.9 dB
VSWR	1.8:1

## Electrical Specifications (Band 4)

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Operating Frequency Band	2200 – 2700 MHz
3rd Order IMD	-150 dBc (relative to carrier)
3rd Order IMD Test Method	Two +43 dBm carriers
Beamwidth, Horizontal	50°–60°
Beamwidth, Vertical	25°–35°
Front-to-Back Ratio, minimum	20 dB
Gain at Frequency Band	11.0 dBi @ 2200–2700 MHz
Gain Tolerance	±1.5 dBi
Impedance	50 ohm
Input Power, maximum	100 W
Lightning Protection	dc Ground
Polarization	Vertical
Return Loss	10.9 dB
VSWR	1.8:1

## Mechanical Specifications

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Mounting	Poles between 30–55 mm with supplied clamps
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## Environmental Specifications

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Application	Outdoor
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Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Relative Humidity	Up to 100%
Water Jetting Test Method	IEC 60529:2001, IP66

## Dimensions

Height	98.00 mm   3.86 in
Length	620.00 mm   24.41 in
Net Weight	4.50 kg   9.92 lb
Width	331.00 mm   13.03 in

## Packed Dimensions

Height	162.0 mm   6.4 in
Length	829.0 mm   32.6 in
Shipping Weight	6.50 kg   14.33 lb
Width	349.0 mm   13.7 in

## Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system