

900 MHz Band ALP Antenna

Log Periodic 35-degree Single Band Vertically Polarized Antenna

Part Number
7131.19.33.00

Horizontal Beamwidth: 35°
Gain: 18 dBi

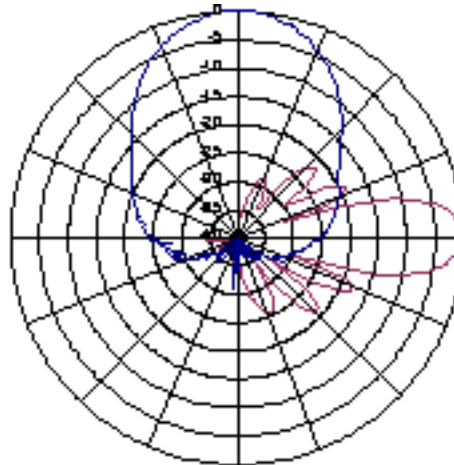
Electrical Downtilt: 0°
Connector Type: 7/16 female

900 MHz

The new Powerwave log periodic antennas have a narrower profile than our previous models. We replaced the previous 110 degree log periodic elements with a 90 degree log periodic element. The Powerwave log periodic is manufactured in a highly repeatable process that is so precise that absolutely no tuning is required. For long life and problem free performance, we use a robust mechanical design that includes high-strength plates of aircraft quality aluminum used to form an extremely rugged package. In addition, the mechanical strength is independent of the radome, which acts only to physically protect and form a weather shield for the elements.



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Typical Horizontal and Vertical 7131.19.33.00 Patterns

ANTENNA
SYSTEMS

BASE STATION
SYSTEMS

COVERAGE
SYSTEMS

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900 MHz

Electrical Specifications

Frequency Range (MHz)	870-960
Polarization	Linear vertical
Gain (dBi)	18
Nominal Impedence (Ohm)	50
VSWR (824-896 MHz)	<1.4:1
VSWR (806-824 MHz)	<1.5:1
Horizontal -3 dB beamwidth	35°
Vertical -3 dB beamwidth	15°
Electrical downtilt	0°
Front-to-back ratio, co-polar (dB)	>30
First upper sidelobe suppression (dB)	>17
Maximum input power (W)	500
IM, 3rd order, 2Tx@43dBm (dBc)	<-103

Mechanical Specifications

Connector Type	7/16 DIN female
Connector Position	Back
Dimensions, HxWxD	800x590x350 (31,5"x23,2"x13,8")
Weight without Bracket	11kg (23.2 lbs)
Weight including Bracket	14.6 kg (31 lbs)
Wind Load, Frontal, @100 mph(44,7m/s) cd=1	589 N (132 lbf)
Survival Wind Speed	70m/s (156 mph)
Lightning Protection	DC grounded
Radome Material	PVC
Radome Color	Light Gray
Packing Size	889x627x394mm (35"x24,7"x15,5")
Shipping Weight	17.3 kg. (38 lbs)

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COVERAGE AND CAPACITY

TECHNOLOGY LEADERSHIP

GLOBAL PARTNER

INTEGRATED SOLUTIONS

QUALITY AND RELIABILITY

PN000000-00