



**L3HARRIS™**  
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# CA-1400 SERIES

## UHF LOW-POWER OMNIDIRECTIONAL ARRAY ANTENNAS

The CA-1400 Series of antennas is a family of lightweight, low-power dipole arrays for general purpose communications use in the 225-400-megahertz frequency band. Units are available from a single dipole element with a gain of 1.5 decibels relative to isotrope to an eight-element array with a gain of 8 decibels relative to isotrope. These antennas are parallel fed, broadband, multielement colinear arrays, which provide vertically polarized, omnidirectional coverage for power levels up to 50 watts. The antennas normally provide maximum signal intensity along the horizon. Upon request, some of the multielement units can be supplied with a nominal upward beam tilt to minimize the effects of ground reflections. The CA-1400 Series Antennas are designed to be compact, rugged and lightweight. They are constructed for operation in sustained winds to 120 miles per hour and to meet the type I vibration requirements of MIL-STD-167 and the service conditions of MIL-STD-810B.

ELECTRICAL					
Frequency range	225-400 MHz				
VSWR	2.0:1 max				
Polarization	Vertical				
Azimuth coverage	Elevation half-power beam width				
Elevation half-power beam width	See table 1				
Power handling	50 W average				
MECHANICAL					
Connector	Type N receptacle				
Finish	Green, gray, or white epoxy polyamide				
	CA-1401	CA-1402	CA-1404	CA-1406	CA-1408
Weight (lbs)	7	16	30	40	70
Height (in)	26	64	122	160	212
Radome dia. (in)	3.5	3.5	3.5	3.0	5.0
Base flange dia. (in)	6.5	6.5	6.5	7.0	9.0
No. mounting bolts	4	4	4	6	6
Bolt circle dia. (in)	5.5	5.5	5.5	5.75	7.75
Bolt hole size (in)	0.562	0.562	0.562	0.562	0.562
Options*					
Beamtilt (10°)	Add suffix "T" to model number				
Stackable	Add suffix "S" to model number				
High power	Add suffix "HP" to model number				
*Available options vary with model. Options may change interface dimensions. Consult the factory for specific details.					



### KEY FEATURES

- > Multielement ultra-high frequency (UHF) colinear array
- > 1.5 to 8 decibels relative to isotrope gain versions
- > Pattern centered at the horizon
- > 50 watts power handling

For further details and specifications, contact the factory at [antenna.info@L3Harris.com](mailto:antenna.info@L3Harris.com)

### CA-1400 Series UHF Low-Power Omnidirectional Array Antennas

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Nonexport-controlled Information

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



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