



L3HARRIS™
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CA-1140 HI SERIES UHF LOW-POWER MULTICHANNEL ANTENNAS

The CA-1140-HI Series is a family of high isolation, lightweight, low-power, dipole antennas for general purpose communications use in the 225-400-megahertz frequency band. The antennas are intended for use where independent, broadband, multichannel operation is required. The series offers configurations with two to six channels. Use of these antennas can substantially reduce total space requirements and significantly improve overall system performance.

Each member of the series is comprised of base dia mounted, broadband, dipole units mounted colinearly within a sealed epoxy fiberglass housing. Size depends upon the number of signal channels desired. The minimum configuration is only 100 inches tall and provides two ultra-high frequency (UHF) channels. The maximum configuration is 354 inches tall and provides six independent channels.

Because of the inherent broadband characteristics and balanced electrical design, the CA-1140-HI Series antennas are insensitive to mounting location and surrounding environment. The radome has an integral base mounting flange with coaxial type N input connectors for each channel, located on the underside. An optional base adaptor, used between the antenna base and its mounting surface, is available for installations where side cable access is desired. (Specify/SA Model)

CA-1140-HI Series antennas are designed to meet MIL-STD-167, type I vibration and the service conditions of MIL-STD-810B.



ELECTRICAL						
Frequency range	225-400 MHz					
VSWR	2.0:1 nom					
Gain	1.5 dB					
Impedance	50 ohms					
Polarization	Vertical					
Azimuth coverage	Omnidirectional within ±1 dB					
Zenith coverage	Figure-eight dipole pattern with maximum at horizon					
RF isolation between channels	Consult with factory					
Power handling	50 W average, each channel					
Type	No. of inputs	Height (in.)	Radome dia. (in.)	Base dia. (in.)	Weight (lbs)	Mounting (in.)
CA-1140-2 HI	2	91	3.5	6.5	26	Four 0.562 bolts on 5.5 BC
CA-1140-3 HI	3	163	3.5	9.5	38	Six 0.531 bolts on 7.5 BC
CA-1140-4 HI	4	226	3.5	9.5	51	Six 0.531 bolts on 7.5 BC
CA-1140-5 HI	5	296	3.5 upper, 6.0 lower	13.5	138	Eight 0.687 bolts on 11.75 BC
CA-1140-6 HI	6	364	3.5 upper, 6.0 lower	13.5	165	Eight 0.687 bolts on 11.75 BC

KEY FEATURES

- > Lightweight and durable design
- > To be used in applications where multichannel operation is required
- > Optional base adaptor available where side cable access is required
- > Meets MIL-STD-167 and MIL-STD-810B

For further details and specifications, contact the factory at antenna.info@L3Harris.com

CA-1140 HI Series UHF Low-power Multichannel 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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