



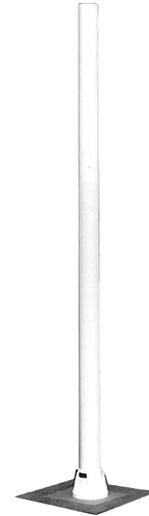
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## CA-1139 VHF LOW-POWER MULTICHANNEL ANTENNA

The CA-1139 Series is a family of lightweight, low-power dipole antennas for general purpose communications use in the 115-162-megahertz frequency band. These assemblies are intended for use where independent, broadband, multichannel operation is required. The series offers configurations with 2 to 5 channels. Use of these antennas can substantially reduce total space requirements and significantly improve overall system performance. Each radiator is broadband and covers the entire 115-162-megahertz-band without tuning. Each channel has a separate input and handles radio frequency (RF) powers to 50 watts with a voltage standing wave ratio (VSWR) on 50 ohms of less than 3.0:1. Pattern coverage is omnidirectional with maximum signal intensity along the horizon. The typical isolation between channels is 15-20 decibels.

Because of the inherent broadband characteristics and balanced electrical design, the CA-1139 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. CA-1139 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					
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					
MECHANICAL						
Input connector (all models)	Type N receptacle, each channel					
Finish (all models)	White epoxy polyamide					
Type	No. of inputs	Height (in.)	Radome dia. (in.)	Base dia. (in.)	Weight (lbs)	Mounting (in.)
CA-1139-2	2	103	3.5	6.5	20	Four 0.5 bolts on 5.5 BC
CA-1139-3	3	155	3.5	6.5	35	Six 0.5 bolts on 5.5 BC
CA-1139-4	4	204	5	13	50	Six 0.5 bolts on 11.75 BC
CA-1139-5	5	258	5	13	65	Eight 0.687 bolts on 11.75 BC



### KEY FEATURES

- > Lightweight and durable design
- > To be used in applications where multichannel operation is required
- > Strong RF performance compared to similar mechanical solutions
- > Meets MIL-STD-167 and MIL-STD-810B

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

#### CA-1139 VHF Low Power Multichannel Antenna

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