



L3HARRIS™
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CA-1079 SERIES

LOW POWER VHF/UHF MULTICHANNEL ANTENNAS

Model CA-1079 is a low-power, general purpose communications antenna for use when very high frequency (VHF) (115 – 162 megahertz) and ultra-high frequency (UHF) (225 – 400 megahertz) channels are to be used simultaneously. Various combinations of VHF and UHF radiators, enclosed in a single housing, provide independent, broadband, vertically polarized coverage. Use of this antenna in multichannel communications systems can substantially reduce the total space requirements and significantly improve the overall system performance.

CA-1079 is intended to provide interference-free ground-to-air and ground-to-ground communications. Because of its inherent broadband characteristics, the unit is relatively insensitive to its mounting location and the surrounding environment. It has been designed to meet MIL-STD-167, Type I vibration; and the service conditions of MIL-STD-810B (operating temperature -40° to +55°C).

ELECTRICAL						
Frequency range						
VHF inputs	115 – 162 MHz					
UHF inputs	225 – 400 MHz					
VSWR	2.0:1 max					
Gain	2.0 dB					
Polarization	Vertical					
Azimuth coverage	Omnidirectional within ±1 dB					
Zenith coverage	Figure-eight dipole pattern with maximum at horizon					
Half-power beam width	80° nominal					
RF isolation between channels	25 dB nominal					
Power handling	50 W average, each channel					
MECHANICAL						
Type	Connector	Height nominal (in.)	Radome dia. (in.)	Base dia. (in.)	Weight (lbs)	Finish
CA-1079 1U/2V	2 VHF; 1 UHF	132	3.5	6.5	25	White or gray epoxy
CA-1079 4U/1V	1 VHF; 4 UHF	168	3.5	6.5	40	Green epoxy
CA-1079 3U/2V	2 VHF; 3 UHF	174	3.5	6.5	40	Green epoxy
CA-1079 5U	– VHF; 5 UHF	174	3.5	6.5	40	Green epoxy
CA-1079 3V	3 VHF; – UHF	174	3.5	6.5	40	Green epoxy



KEY FEATURES

- > Rugged design
- > Ideal for air-to-ground and ground-to-air applications
- > Multiple independent RF connector options available
- > Meets MIL-STD-167 and MIL-STD-810B standards

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

CA-1079 Series Low Power VHF/UHF 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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