



**L3HARRIS™**  
FAST. FORWARD.

# C146-13 GPS ANTENNA

The C146-13 Antenna brings the proven electrical performance of the C146 series to high-performance, Mach II-plus airframes.

The C146-13 Antenna has been designed with broadband radiating elements and a quadrature feed network. The broadband element allows the C146 series to provide continuous coverage from L2 through L1 frequencies without regard for operating temperature. The quadrature feed network, beyond offering excellent circular polarization and minimum axial ratio, provides low phase ripple, excellent pattern symmetry and a stable phase center.

The C146-13, offered with two mounting patterns, features a radome manufactured from DuPont Tefzel, a Teflon-based product that has been proven resistant to rain-erosion and acoustic-noise damage. In addition, an aluminum bezel is incorporated into the flange to provide a secure mounting point and prevent moisture intrusion. The C146-13 has been flight proven on aircraft such as the F-14, F-18 and A-10.

PARAMETER	SPECIFICATION
<b>Electrical</b>	
Frequency range	
L1	1560-1590 MHz
L2	1212-1242 MHz
VSWR	2.0:1
Gain	5 dBic at zenith -4 dBic at 5° elevation above the horizon
Impedance	50 ohms
Polarization	RHCP
Radiation patterns	Omnidirectional – azimuth Hemispherical – vertical
Power handling	Receive only
<b>Mechanical</b>	
Connector	TNC female
Weight	0.5 lbs (0.23 kg)
Finish	Gray



## KEY FEATURES

- > Broadband element design
- > Continuous coverage for L1 to L2 frequency band
- > Fighter-aircraft qualified
- > Rugged rain-erosion resistant radome

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

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