

# DM C146 Series GPS Antenna

The DM C146 Series of antennas provide GPS reception at L1 and L2 and are suitable for a wide variety of installations.

The DM C146 antenna has been designed with broadband radiating elements and a quadrature feed network. The broadband element allows the DM 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 DM C146 Series GPS Antennas are available in many different models, to suit airborne (both subsonic and supersonic), marine, and land applications.

These antennas are low profile (1.5" high) and are easily installed (5" or less diameter mounting base). An optional choke ring, the U305-1, is available and is suitable for direct interface with select models within the DM C146 Series. Use of the U305-1 choke ring mitigates the affects of multipath interference, which would otherwise diminish system accuracy.



## SPECIFICATIONS

### Electrical

Frequency Range	
L1	1560 - 1590 MHz
L2	1212 - 1242 MHz
VSWR	1.5:1
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

### Mechanical

Connector	
DM C146-10-X	SMA Female
DM C146-11-X	TNC Female
Weight	0.5 lbs (0.23 kg)
Finish	Gray (-1); White (-2); or Black (-3)

# DM C146

## Series GPS Antenna

---

### OUTLINE DIMENSIONS

Inches (Centimeters)

---

Consult with factory for mounting specifications.

EDO Corporation  
a subsidiary of Exelis Inc.  
585 Johnson Avenue  
Bohemia, NY 11716  
USA  
Ph #: 631 218-5500  
E: [antenna.info@exelisinc.com](mailto:antenna.info@exelisinc.com)  
[www.exelisinc.com/antennas](http://www.exelisinc.com/antennas)

**EXELIS**

Exelis is a registered trademark  
of Exelis Inc.

Copyright © 2013 Exelis Inc.