

Part #: 100-00108-01



tuned for any type of plastic housing.

Electrical Specifications

1540 MHz Typical Performance

1640 MHz Typical Performance

Parameter

Peak gain

Axial ratio

Parameter Element Efficiency

Peak gain

Axial ratio

VSWR

VSWR

Element Efficiency

Parameter	Design Specifications
Frequency	1525 MHz - 1660.5 MHz
Polarization	LHCP
Peak gain	3.5 dBic @ 1540 MHz (typical) 3.5 dBic @ 1640 MHz (typical)
Axial ratio	1.5 dB (max)
Impedance	50 Ohm
Interference rating	200 V/m in band
Operating temp.	from -40°C to 85°C
RF connector	UFL
Overall dimensions	100 mm (height) x 12 mm (diameter)
Weight	9 grams

Design Specifications

Design Specifications

50%

<2

50%

<2

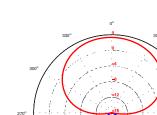
1.5 dBic

3.5 dB (max)

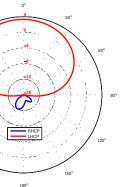
3.5 dBic

1.5 dB (max)

Realized gain plot measured at 1540 MHz

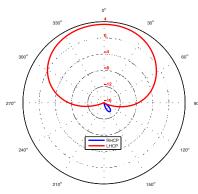








measured at 1640 MHz



The M1600HCT12-UFL is a high performance antenna designed for the Thuraya network and built on proprietary Maxtena HeliCore® technology. This technology provides exceptional pattern control, polarization purity and high efficiency in a very compact form factor. The M1600HCT12-UFL comes with an integrated coaxial cable with U.FL connector. Cable length can be customized upon request. This product is ideal for embedded applications requiring minimal integration effort or for retrofitting existing products. The antenna is custom

Features

dimensions are in mm

- · Very low axial ratio
- Pattern constant with frequency
- · Ground plane independent

Mechanical Specifications

· Ultra lightweight

Applications

- Military & security
- · Asset tracking
- · Oil & gas industries
- Navigation devices
- Mining equipment
- LBS & M2M applications
- · Handheld devices
- · Law enforcement



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