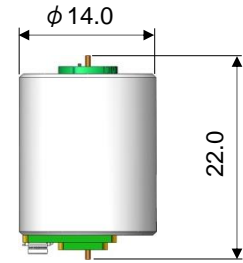


# MHE-1621B

Iridium dielectric loaded antenna: U.FL-R-SMT-1 connection

## APPLICATIONS

- Iridium Satellite Telephones
- Iridium Messaging Terminals
- Logistics Management
- Research bouys
- Asset Tracking/Messaging
- Emergency Location
- Disaster Communications



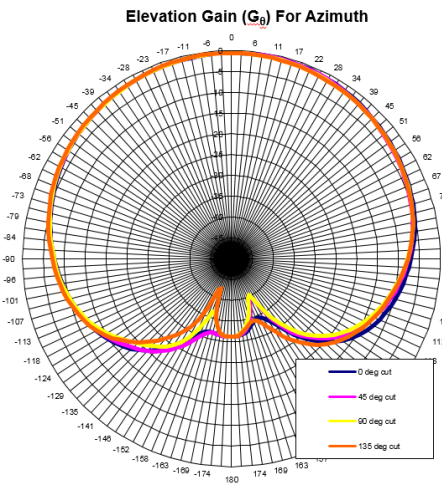
(in mm)

## Product Description

The MHE-1621B antenna is a dielectric-loaded decafilax-helix antenna which uses distinctive materials technology to provide the highest available efficiency in a small size. The dielectric core together with the fly-wheeling effect of the advanced decafilax helical design provide excellent beamwidth and low elevation gain, which is maintained in relatively cluttered use scenarios. The MHE-1621B acts as its own filter, attenuating signals from common cellular and ISM frequencies by as much as 30dB.

## Key Features

- Designed for installation with 10mm gap from antenna side to host PCB ground-plane
- Filters against interference from cellular and ISM bands
- Balanced design rejects common mode noise from ground plane
- U.FL-R-SMT-1 connection to device PCB



Design Specifications	Typical	Units
Frequency	1621.0	MHz
Gain (RHCP)	-0.5	dBic at zenith
Beamwidth	>135	Degrees
Bandwidth	20	MHz
Axial Ratio	<1.5	at zenith
VSWR	<2.0:1	-
Impedance	50	Ohms
Operating Temp	-40→+85	°C
Weight	16	grams