

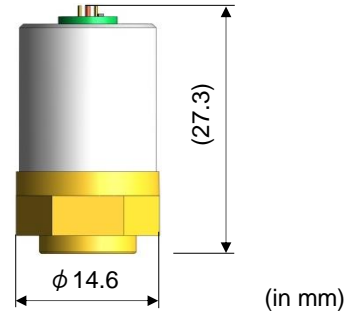
"The dielectric-loaded helical antenna solution"

MHE-1621A

Iridium dielectric loaded antenna: SMA male connection

APPLICATIONS

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

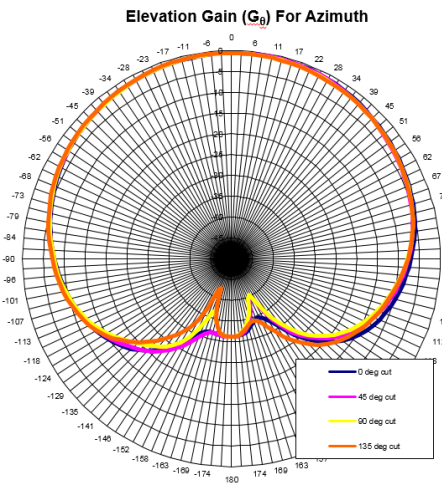


Product Description

The MHE-1621A 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-1621A 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
- Solder-pad installation 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 |