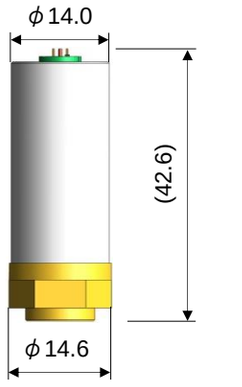
"The dielectric-loaded helical antenna solution"

MHF-1621A

Iridium dielectric loaded antenna: SMA (male)



(in mm)

APPLICATIONS

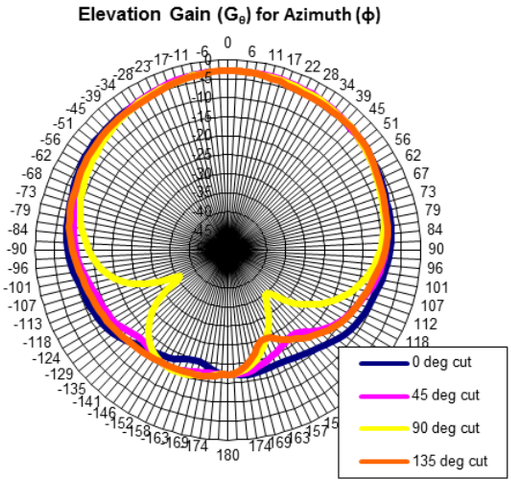
- Iridium Satellite Telephones
- Iridium Messaging Terminals
- Logistics Management
- Research bouys
- Asset Tracking/Messaging
- Emergency Location
- Disaster Communications

Product Description

The MHF-1621A antenna is a dielectric-loaded decafilar-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 decafilar helical designe provide excellent beamwidth and low elevation gain, which is maintained in relatively cluttered use scenarios. The MHF-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
- SMA male connection to device PCB



Design Specifications	Typical	Units
Frequency	1621.0	MHz
Gain (RHCP)	+2.0	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	℃
Weight	27	grams

Rev.00