



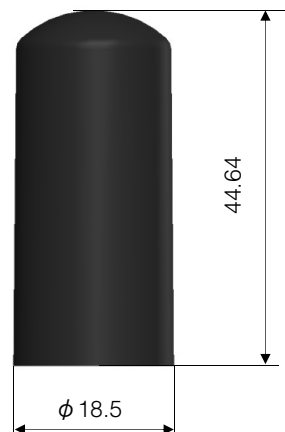
"The dielectric-loaded helical antenna solution"

MHF-1621B

Rugged Iridium dielectric loaded antenna: SMA (male)

APPLICATIONS

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

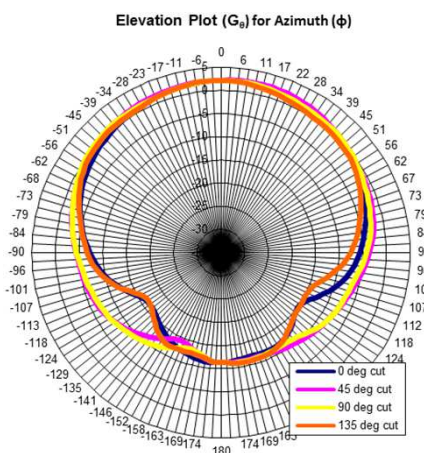


Product Description

The rugged MHF-1621B antenna is a durable elastomeric-plastic overmoulded and dielectric-loaded decafilax-helix antenna which uses MARUWA's 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 MHF-1621B acts as its own filter, attenuating signals from common cellular and ISM frequencies by as much as 30dB.

Key Features

- Highest available efficiency per unit of volume
- Excellent beamwidth and low elevation gain
- Relatively unimpaired by cluttering objects
- Designed for harsh environments: exposed to force, dust and moisture
- Base flange groove for O-ring water-seal



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	°C
Weight	29	grams