

# FRF-102 DATA SHEET

## Description:

The FIRST RF Corporation FRF-102 is a broad band Ku through K band, high gain antenna. The antenna produces a high-gain end fire beam from a conformal low-profile aperture. It may be mounted flat, or adapted to a radial curvature. Applications include automotive RADAR; K-Band amateur satellite; and aircraft and munitions telemetry / communications. The antenna is externally secured with standard #4-40 screws.

## RF Performance Overview:

### Frequency:

Ku through K Band

### VSWR:

< 2.0:1

### Impedance:

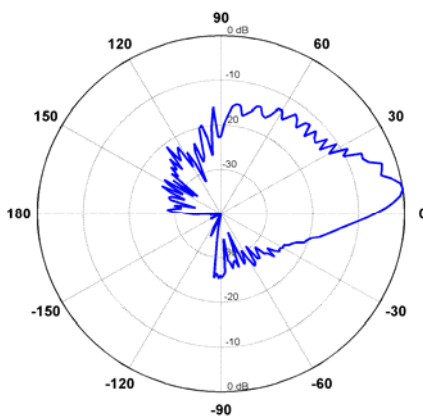
50 ohms

### Antenna Gain:

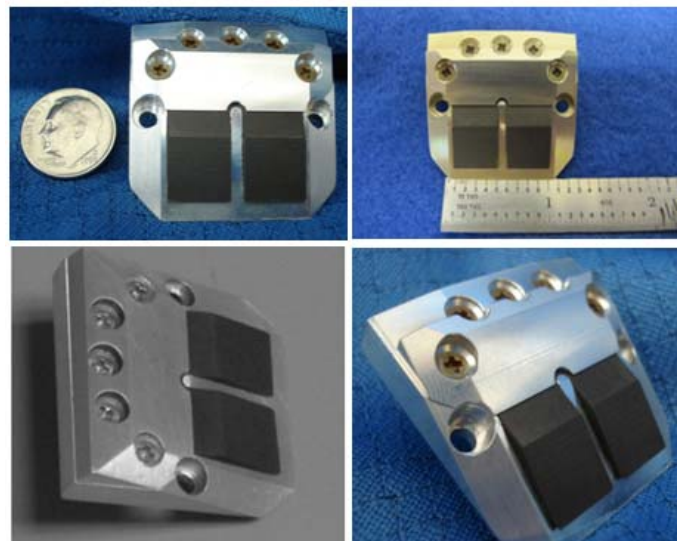
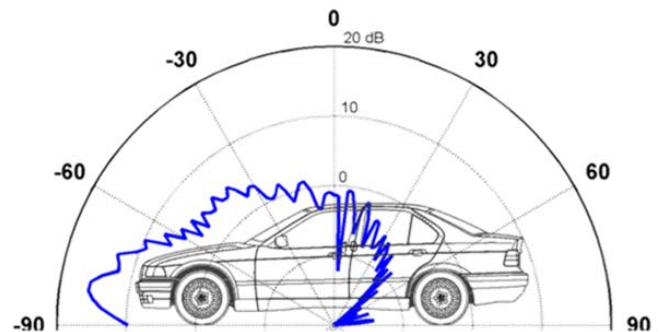
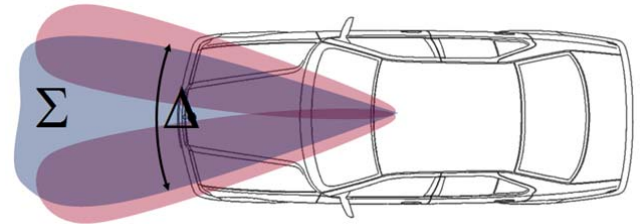
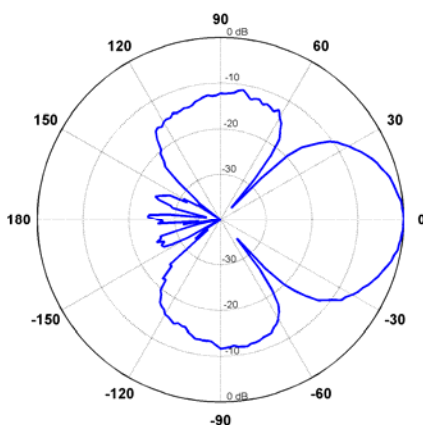
10° Elevation +15dB to +20dB

## Typical Radiation Pattern(s):

### Elevation Pattern:



### Azimuth Pattern at 10° Elevation:



## Mechanical Overview:

### Weight:

0.712oz (20.185g)

### Physical Dimensions:

1.42" X 1.375" X.375"  
 (antenna element only)

### Connector:

SMA Jack (Female)