

HORN

1400/2000 MHz

Horn Antenna

Antenna & Microwave Research Laboratory
Shahrood University of Technology



ELECTRICAL DATA

Model	Horn 1400/2000 MHz
Frequency Range	1400 – 2000 MHz
Radiation Pattern	Directional
Polarization	Linear (Vertical or Horizontal)
Typical Gain	≥ 10 dBi @ Low Frequency
	≥ 12 dBi @ Mid Frequency
	≥ 13 dBi @ High Frequency
Half Power Beamwidth (Horizontal)	47 deg. @ Mid Frequency
Half Power Beamwidth (Vertical)	43 deg. @ Mid Frequency
Front to Back Ratio	≥ 18 dB
Input Impedance	50 Ω
Typical VSWR	≤ 1.75
Power Handling Capacity	200 Watts
Input Connector	N - Female

MECHANICAL DATA

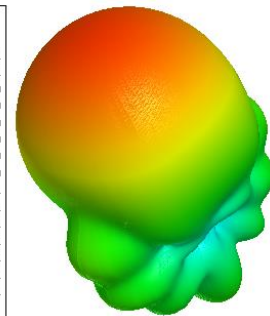
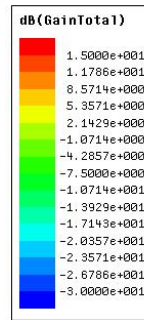
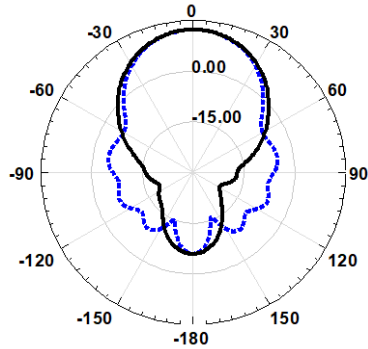
Body Material and Plating	Aluminum, Paint (Dark Gray)
Connector Material	Stainless Steel
Total Antenna Size (L×H×w)	30×26×24 (Cm)
Aperture Size	26×22 (Cm)
Weight	2.3 Kg
Mounting Clamp Position	At the First Plate (Vertical or Horizontal)



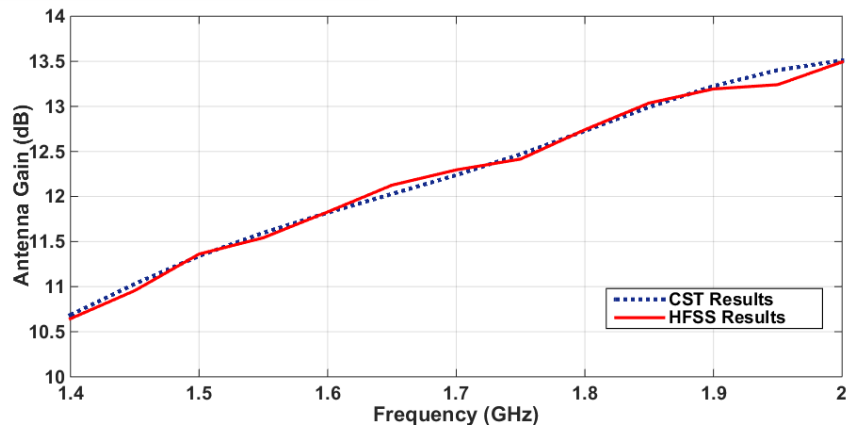
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RADIATION PATTERN @ 1.7 GHz



ANTENNA GAIN VS FREQUENCY



MEASURED VSWR

