

# HORN 2.4

HORN Antenna | WIFI

Antenna & Microwave Lab., Shahrood University of Technology

## ELECTRICAL DATA

Type	HORN
Frequency range	2.2- 3.3 GHz
Input Impedance	50 $\Omega$
Polarization	Linear (Vertical or Horizontal)
Half Power Beamwidth (Horizontal)	33 @ 2.45 GHz
Half Power Beamwidth (Vertical)	45 @ 2.45 GHz
Max Gain	13 dBi
Front to back ratio	$\geq 19$ dB
VSWR	$\leq 2$
Max Power	$\leq 150$ watts
Cable Type	RG 142
Connector	N type

## MECHANICAL DATA

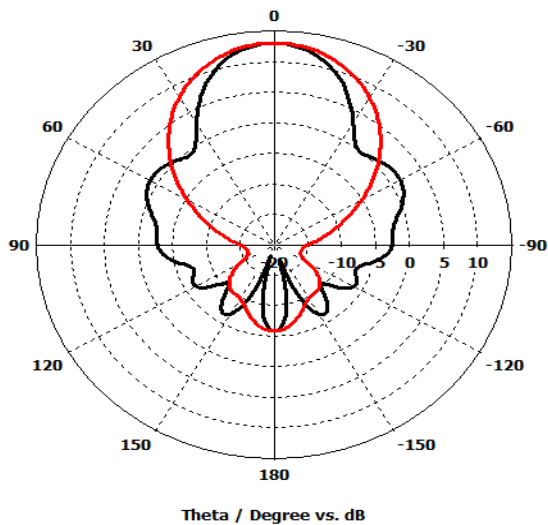
Material	Aluminum
Weight	1.6 Kg
Dimension	20*20*25 cm
Wind rating	100 Km/h
Operating temperature	-35 to +60 Degrees Celsius
Coating (color)	Anodized (Silver or black)

ADDRESS: ANTENNA & MICROWAVE LAB. , SHAHROOD UNIVERSITY OF TECHNOLOGY, SHAHROOD, IRAN.  
P.O.BOX: 3619995161 – PHONE: +982332392205 (EXTENSION: 2211) – FAX: +982332300250  
E-MAIL: jghalibafan@shahroodut.ac.ir

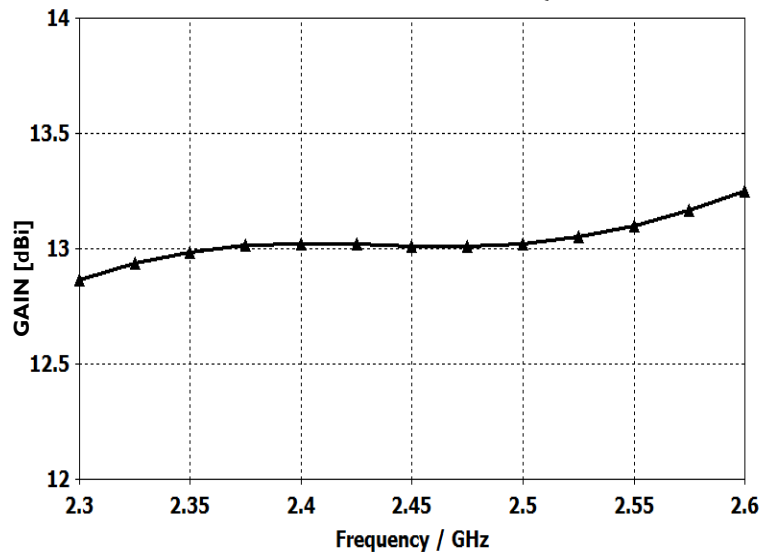
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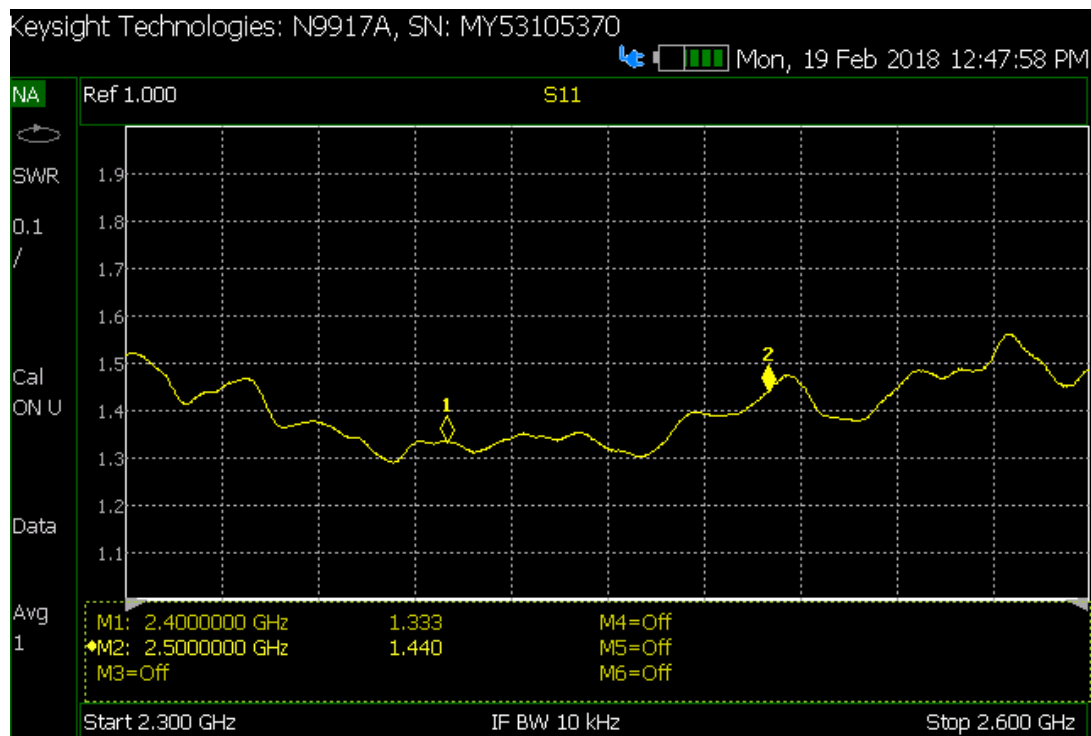
TYPICAL RADIATION PATTERN at 2.45 GHz



TYPICAL GAIN DIAGRAM vs FREQUENCY



MEASURED VSWR



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