

HORN-X

Horn Antenna | 7.2-8.4 GHz

Antenna & Microwave Lab., Shahrood University of Technology

ELECTRICAL DATA

Type	Horn
Frequency range	7.2 - 8.4 GHz
Input Impedance	50 Ω
Polarization	Circular
Half Power Beamwidth (Horizontal)	35 deg.
Half Power Beamwidth (Vertical)	35 deg.
Max Gain	12 dBi
Front to Back ratio	≥ 21 dB
VSWR	≤ 1.5
Max Power	≤ 200 watts
Connector	N-female

MECHANICAL DATA

Elements & boom Material	Aluminum
Weight	300 g
Overall length	114 mm
Overall height	78 mm
Operating temperature	-30 to +70 Degrees Celsius

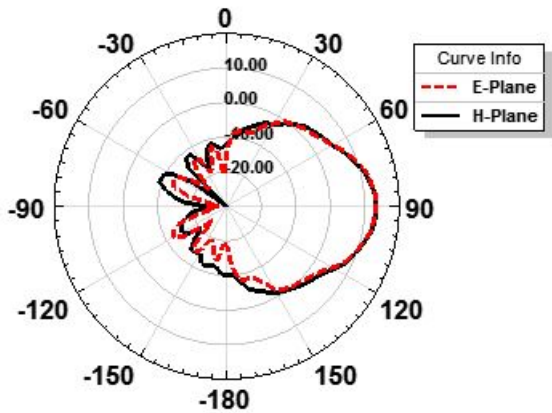
ADDRESS: ANTENNA & MICROWAVE LAB. , SHAHROOD UNIVERSITY OF TECHNOLOGY, SHAHROOD, IRAN.
P.O.BOX: 3619995161 – PHONE: +982332392205 (EXTENSION: 2211) – FAX: +982332300250
E-MAIL: jghalibafan@shahroodut.ac.ir

HORN-X

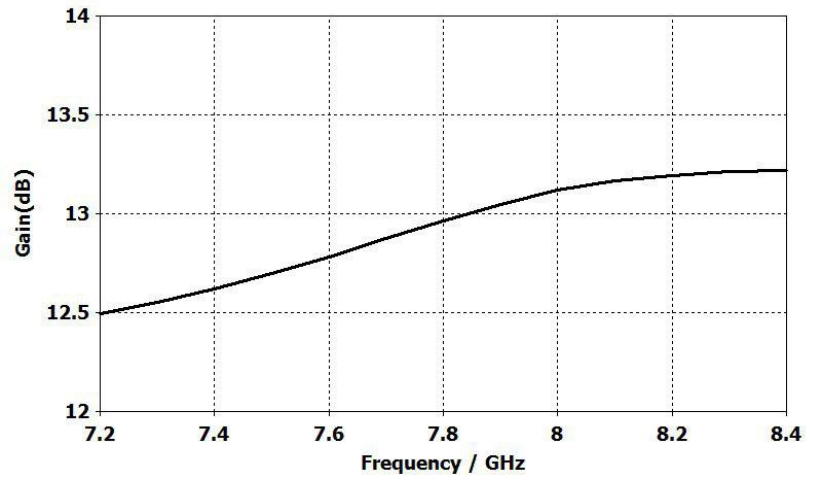
Horn Antenna | 7.2-8.4 GHz

Antenna & Microwave Lab., Shahrood University of Technology

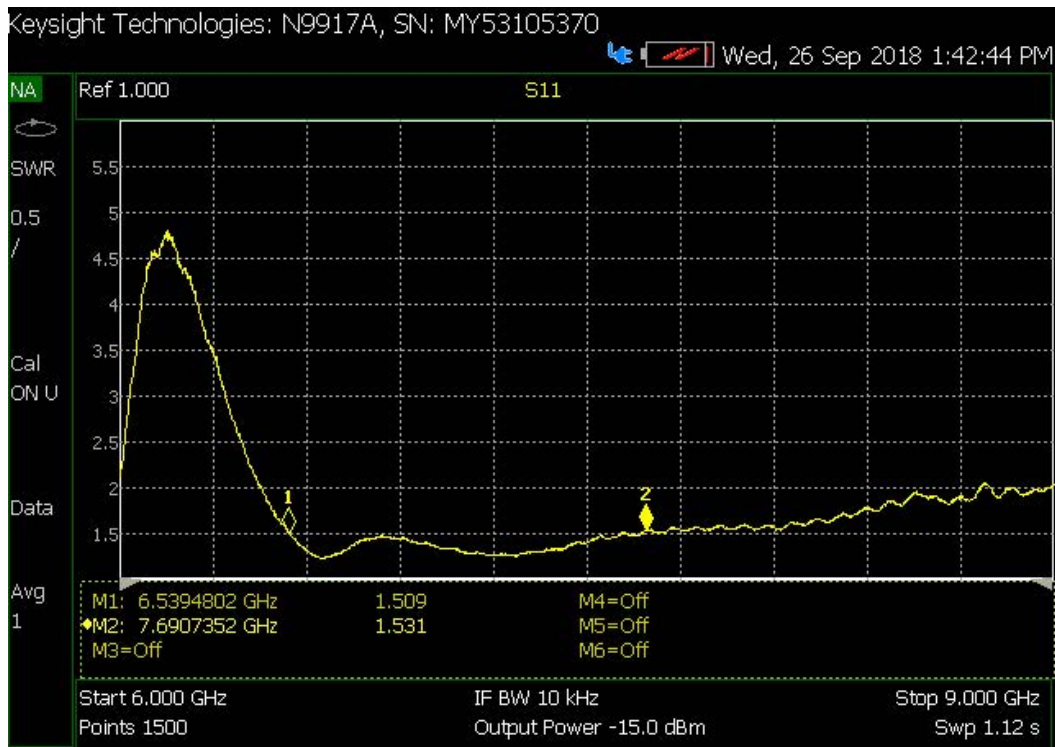
TYPICAL RADIATION PATTERN



TYPICAL GAIN DIAGRAM vs FREQUENCY



MEASURED VSWR



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