

Helix

Helix Antenna | 1.3-4 GHz

Antenna & Microwave Lab., Shahrood University of Technology

ELECTRICAL DATA

Type	Helix
Frequency range	1.3 - 4 GHz
Input Impedance	50 Ω
Polarization	Circular (LHCP or RHCP)
Half Power Beamwidth (Horizontal)	37 Deg.
Half Power Beamwidth (Vertical)	37 Deg.
Max Gain	10.6 dBi
Front to Back ratio	≥ 26 dBi
VSWR	≤ 2
Max Power	≤ 100 watts
Connector	N Type

MECHANICAL DATA

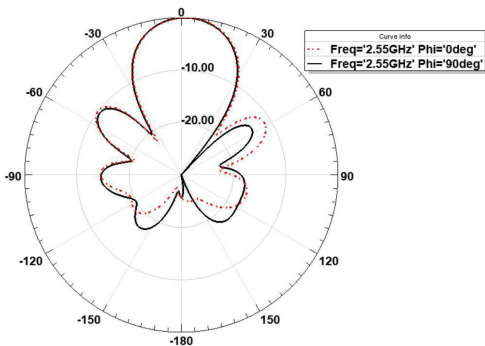
Elements & boom Material	Copper
Weight	0.6 Kg
Dimension	15 cm x 15 cm x 18 cm
Wind rating	200 Km/h
Operating temperature	-35 to +70 Degrees Celsius

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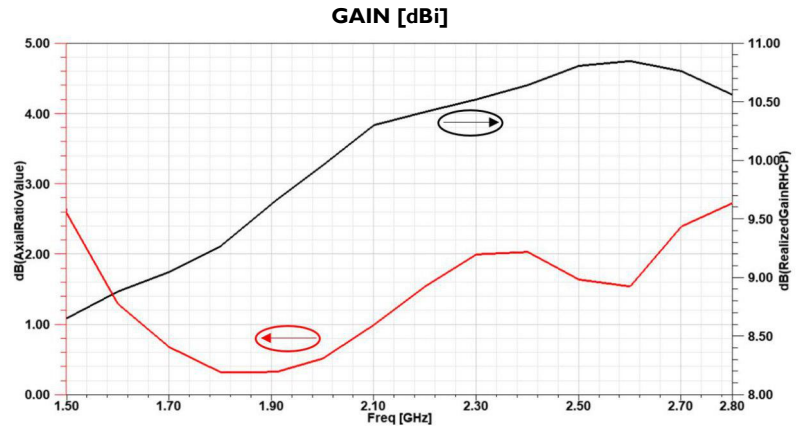
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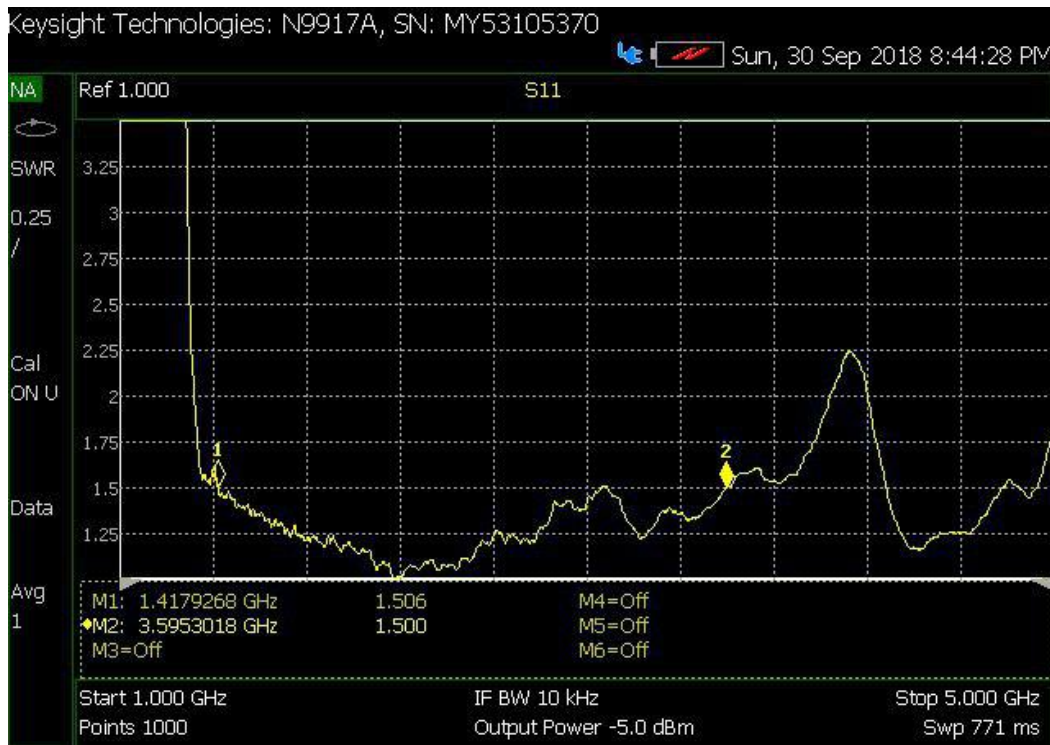
TYPICAL RADIATION PATTERN at 1.45 MHz



TYPICAL GAIN DIAGRAM vs FREQUENCY



MEASURED VSWR



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