

# YAGI-960

Yagi-Uda Antenna | 960-1250 MHz

Antenna & Microwave Lab., Shahrood University of Technology

## ELECTRICAL DATA

|                                   |                                 |
|-----------------------------------|---------------------------------|
| Type                              | 8 elements Yagi                 |
| Frequency range                   | 960 - 1250MHz                   |
| Input Impedance                   | 50 $\Omega$                     |
| Polarization                      | Linear (Vertical or Horizontal) |
| Half Power Beamwidth (Horizontal) | 66 @ 145 MHz                    |
| Half Power Beamwidth (Vertical)   | 48 @ 145 MHz                    |
| Gain                              | 10 dBi                          |
| Front to Back ratio               | $\geq 16$ dB                    |
| VSWR                              | $\leq 2$                        |
| Max Power                         | $\leq 150$ watts                |
| Cable Type                        | RG 142                          |
| Connector                         | N Type                          |

## MECHANICAL DATA

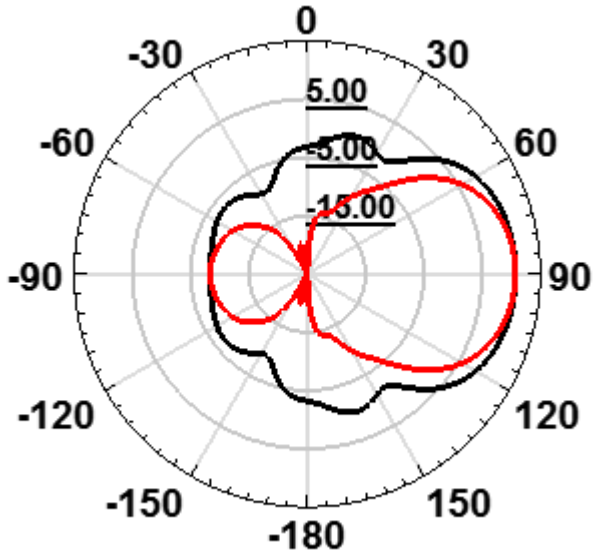
|                          |                             |
|--------------------------|-----------------------------|
| Elements & boom Material | Aluminum                    |
| Weight                   | 1 Kg                        |
| Overall length           | 65 Cm                       |
| Overall height           | 18 Cm                       |
| Wind rating              | 150 Km/h                    |
| Operating temperature    | -35 to +60 Degrees Celsius  |
| Coating (color)          | Anodized (Silver or black)  |
| Lightning protection     | All metal parts DC grounded |

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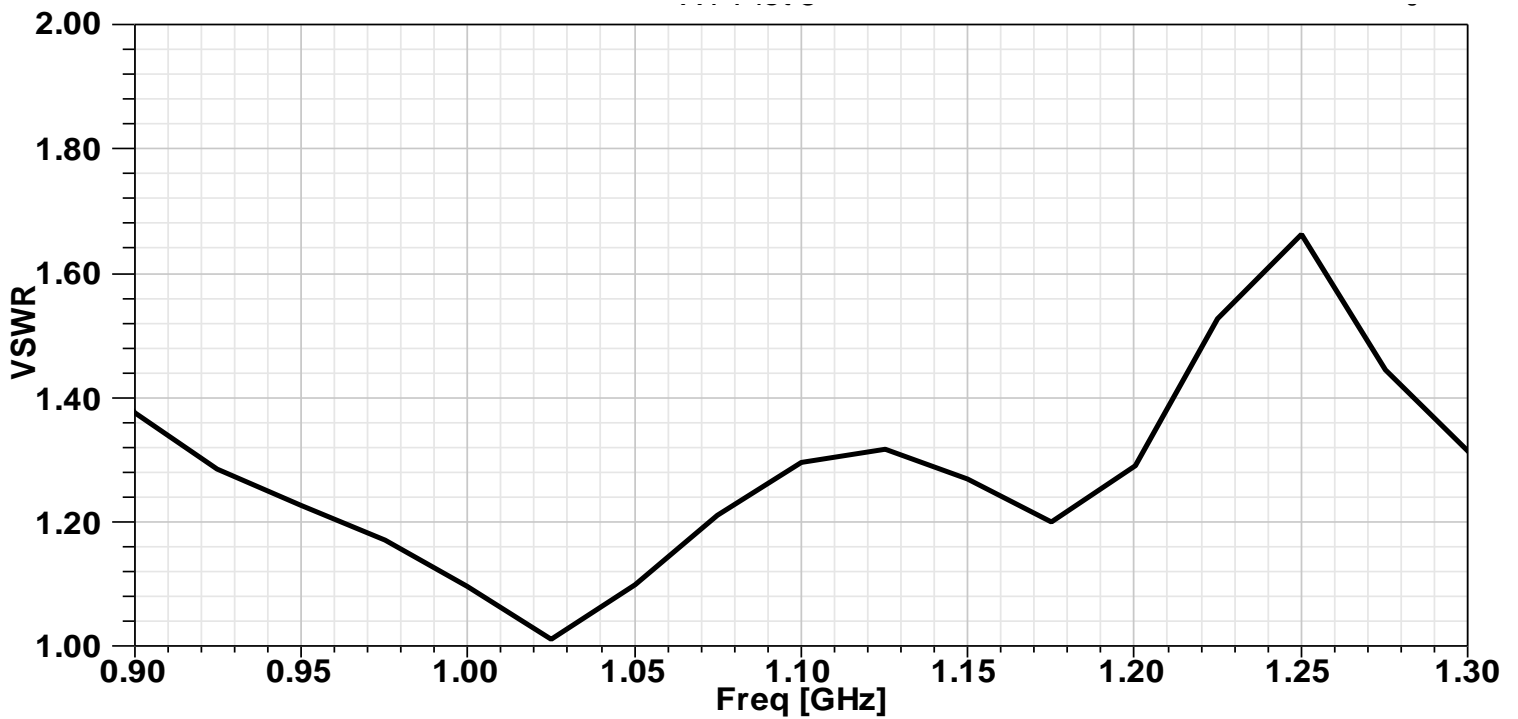
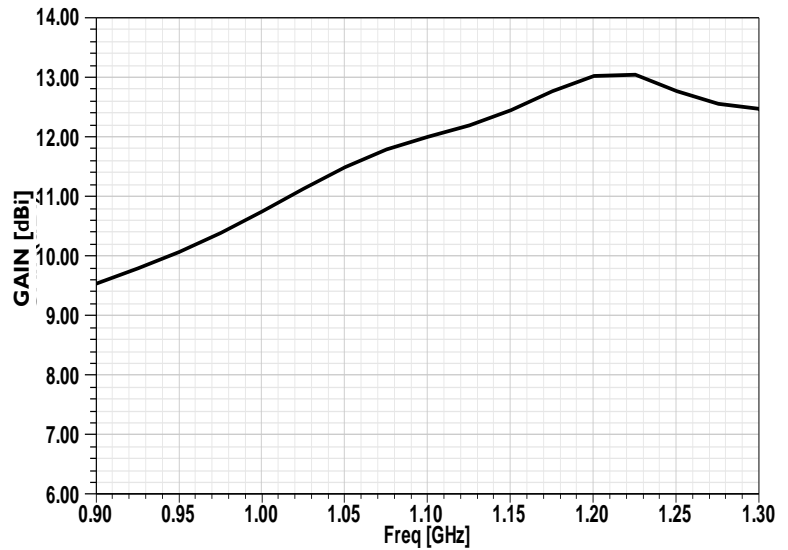
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TYPICAL RADIATION PATTERN at 1000 MHz



TYPICAL GAIN DIAGRAM vs FREQUENCY



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