

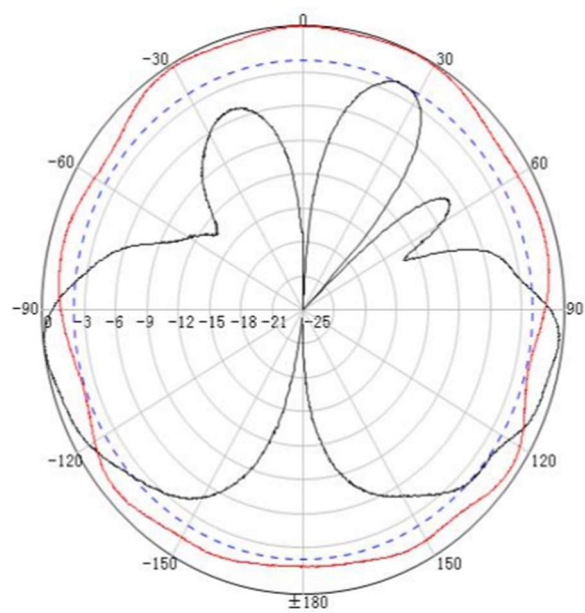
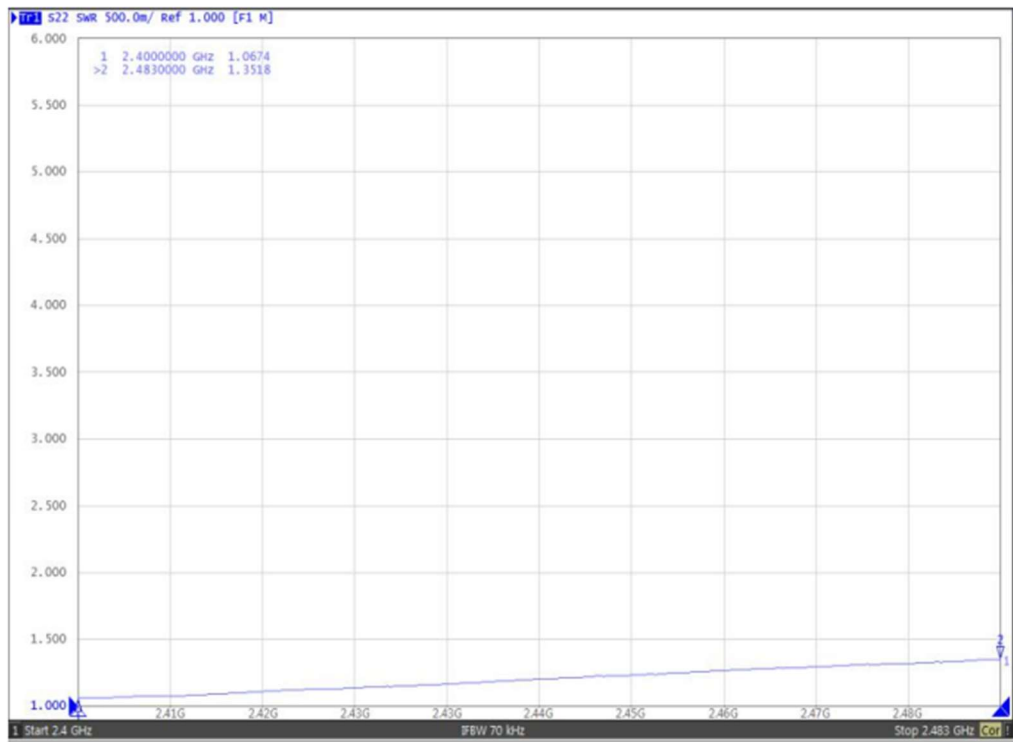
Rubber Ducky -

Microhard Systems Inc. PN: MHS031121

2.5dBi 2.4 GHz Rubber Ducky Antenna Reverse SMA Swivel

Electrical	
Frequency Range	2400-2483MHz
Band Width	83MHz
Gain	2.5dBi
V.S.W.R	≤1.5
Radiation	Omni-Direction
Polarization	Vertical
Maximum Input Power	5W
Impedance	50Ω
Connector	SMA Male
Antenna Radome Material	TPE
Mechanical	
Dimensions	Φ8x108mm
Weight	7g
Operating Temperature	-40℃ to+70℃
RoHS Compliant	YES





Patch

Microhard Systems Inc. PN: MHS034210

14 dBi, 2.4GHz Flat Patch Directional Antenna RPTNC Pigtail

Applications

- 2.4 GHz ISM Band
- IEEE 802.11b, 802.11g and 802.11n applications
- Bluetooth® & public wireless hotspot
- Wireless video systems
- WiFi applications

Features

- Compact size, 8.5 in. square
- Durable UV-stable, UL flame rated radome
- Low-loss solid brass element & DC Short lightning protecting
- 4 foot low-loss coax cable, optional pigtails and mounting brackets available
- Can be installed for either vertical or horizontal polarization



Mechanical Specifications

Weight	0.95 lbs. (0.43 kg)
Dimensions	8.5 x 8.5 x 1.0 in. (216 x 216 x 26 mm)
Radome Material	UV-inhibited Polymer
Flame Rating	UL 94HB
Mounting	(4) 0.26 Dia. Holes, (2) ¼-20 Tapped Holes and (4) 10-24 Tapped Holes
Polarization	Horizontal or Vertical
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Wind Survival	>150 MHP (241 KPH)
RoHS Compliant	Yes

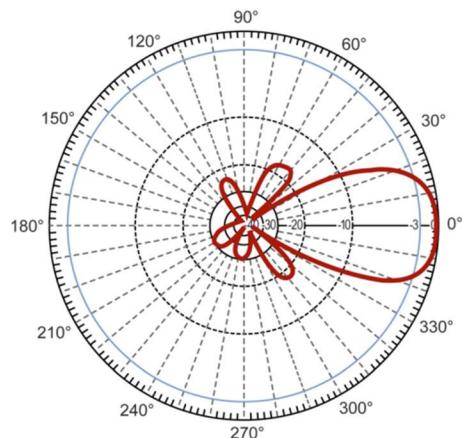
Wind Loading Data

Wind Speed (MPH)	Loading (LBS)
100	25.6
125	40.0

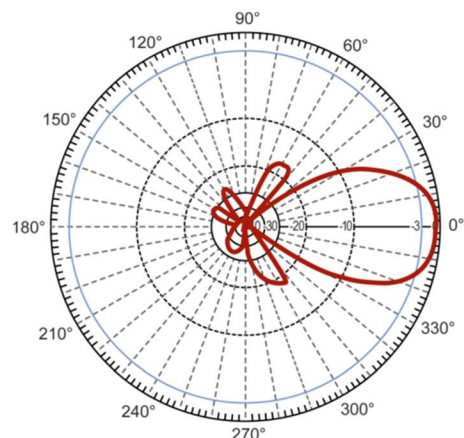
Electrical Specifications

Frequency	2400-2500 MHz
Gain	14 dBi
Horizontal Beam Width	30 Degrees
Vertical Beam Width	30 Degrees
Impedance	50 Ohm
Max. Input Power	25 Watts
VSWR	< 1.5:1 avg.
Lightning Protection	DC Short

RF Antenna Gain Patterns



Vertical



Horizontal

Yagi

Microhard Systems Inc. PN: MHS034150

14.5 dBi, 2.4GHz Yagi Directional Antenna RPTNC Pigtail

Applications and Features

Applications:

- 2.4 GHz ISM Band
- IEEE 802.11b and 802.11g Wireless LAN
- Directional and multipoint applications
- Bluetooth®
- Public Wireless Hotspot
- WiFi

Features:

- Superior performance
- Light weight
- All weather operation
- UV-stable, UL flame rated radome
- 30 ° beam-width
- DC Short lightning protection
- Can be installed for either vertical or horizontal polarization
- Includes tilt and swivel mast mount
- Optional wall/ceiling mount available



Specifications

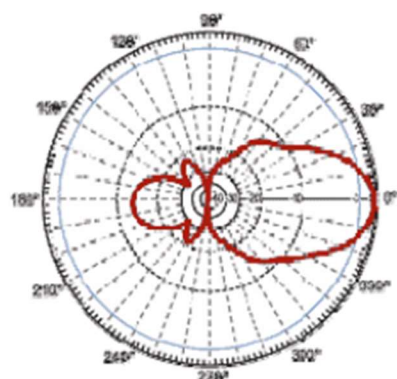
Electrical Specifications

Frequency	2400-2500 MHz
Gain	14.5 dBi
-3 dB Beam Width	30 degrees
Impedance	50 Ohm
Max. Input Power	50 Watts
VSWR	< 1.5:1 avg.
Lightning Protection	DC Short

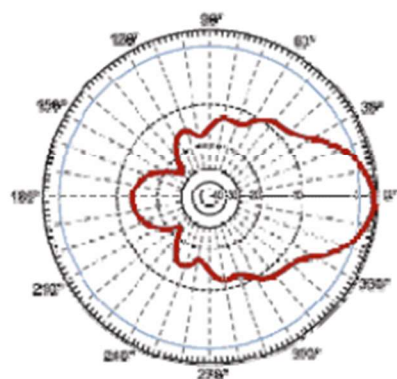
Mechanical Specifications

Weight	1.8 lbs. (.81 kg)
Dimensions Length x Diameter	18.2 x 3 (inches) 462 x 76 (mm)
Radome Material	UV-inhibited Polymer
Flame Rating	UL 94HB
Operating Temperature	-40° C to 85° C (-40° F to 185° F)
Mounting	1-1/4" (32 mm) to 2" (51 mm) dia. masts
Polarization	Vertical and Horizontal
Wind Survival	>150 MPH

Antenna Gain Patterns



Vertical



Horizontal

OMNI

Microhard Systems Inc. PN: MHS034040

15 dBi, 2.4GHz Omni Directional Antenna RPTNC Pigtail

Applications

- 2.4 GHz ISM band
- IEEE 802.11b, 802.11b, 802.11g and 802.11n
- Point to multi-point applications



Specifications

Electrical Specifications

Frequency	2400-2500 MHz
Gain	15 dBi
Polarization	Vertical
Vertical Beam Width	8°
Horizontal Beam Width	360°
Impedance	50 Ohm
Max. Input Power	100 Watts
VSWR	1.5:1 or Less
Lightning Protection	DC Short

Mechanical Specifications

Weight Antenna	3.3 lbs (1.5kg)
Length	40.5 in. (1.03m)
Base Diameter	1.69 in. (42.9mm)
Radome Diameter	1.52 in. (38.6mm)
Radome Material	Gray Fiberglass Weatherproof
Mounting	2.0" diameter mast max.
Wind Survival	up to 150 MPH
Operating Temperature	-40° C to 85° C (-40° F to 185° F)
RoHS Compliant	Yes
Connector	Integral N-Female

RF Antenna Patterns

