



900 MHz 9 dBi Yagi Antennas for ISM, GSM and Wireless LAN Systems

Model: HG909Y

Applications and Features

Applications:

- 900MHz ISM Band
- Wireless LAN systems
- Point to multipoint applications
- Non Line of Sight (NLOS)
- GSM
- RFID
- SCADA
- Wireless Video Links
- 900MHz Cellular

Features:

- Superior performance
- Heavy duty steel construction
- All weather operation
- Heavy-duty 1/2" stainless steel boom
- Solid 1/8" elements
- 18 inch coax lead
- Can be installed for either vertical or horizontal polarization
- 1/8" thick plated steel mounting plate
- RoHS Compliant



Product Description

Superior Performance

The HyperGain® HG909Y High-Performance Yagi Antennas combines high gain with a wide beam-width. They are ideally suited for directional applications in the 900MHz ISM and GSM bands. Typical applications include 900MHz Wireless LAN, SCADA, Wireless Video Links, 900 MHz Cellular, Non Line of Sight (NLOS) applications and point to multi-point systems. External interference of this antenna is minimized due to the excellent front to back ratio. These antennas comes with a 18" coax lead terminated with an N-Female connector. It can be installed for either vertical or horizontal polarization

Rugged and Weatherproof

This antenna features a heavy-duty 1/2" stainless steel boom and solid 1/8" elements. Secure mounting is assured by a 1/8" thick plated steel mounting plate and two plated steel U-bolts.


Specifications

Model	HG909Y
Frequency	890-960 MHz
Gain	9 dBi
Polarization	Horizontal or Vertical
Horizontal Beam Width	54°
Vertical Beam Width	48°
Front to Back Ratio	14 dB
Impedance	50 Ohm
Max. Input Power	100 Watts
VSWR	< 1.5:1 avg.
Elements	5
Weight	1.5 lbs. (0.7 kg)
Length	19.6 in. (0.5 m)
Mounting	2 in. (50.8 mm) diameter mast max.
Operating Temperature	-40° C to to 85° C (-40° F to 185° F)
Lightning Protection	DC Short
Connector	N-Female
Wind Survival	135 MPH
RoHS Compliant	Yes

Wind Loading Data

Wind Speed (MPH)	Loading
100	5.6 lb.
120	8.8 lb.
100 w/1/2" Radial Ice	8 lb.

RF Antenna Gain Patterns
