

4023

915MHz / 2.4GHz DUAL BAND OMNI ANTENNA

FEATURES

- **Dual Band 880-1200MHz / 2.3-2.6GHz**
- **Polyester Coated Brass Radiator**
- **Gold Plated Contacts**
- **Requires Accessory 4024 or 4044 for Mounting**

DESCRIPTION

Vertical omnidirectional antennas radiate in all directions therefore their gain is less than that of a yagi antenna that concentrates radiation in a single direction. This reduced gain limits the effective range of the omnidirectional antenna.

Omnidirectional antennas are useful in applications where their use eliminates the need for antenna alignment. Omnidirectional antennas are routinely used on the control end of a polling system.

When an omnidirectional antenna is used on the control end of a polling system, a yagi can be used on each slave unit for maximum gain and reduction in possible interference due to the front to back ratio gain reduction of the yagi antenna.

This Dual Band antenna has an ultra wide bandwidth for the 880-1200MHz and 2300-2600MHz bands and provides 2.1dBi gain on both.

The brass radiator is coated with a polyester radome for corrosion resistance. The contacts are gold plated for corrosion resistance.

This antenna requires accessory 4024 or 4044 for mounting. Part 4024 is a Type N female connector designed for bulkhead mounting. The other end of the bulkhead mount interfaces with the antenna.

Part 4044 allows the bulkhead connector (4024) to be mounted on a right angle bracket which has hardware to allow mounting the antenna vertically on a vertical pipe.

To insure specified operation, this antenna must have a conductive surface under it when it is mounted. Mounting the antenna on a metal electrical box provides a satisfactory ground plane.

When mounting the antenna on a mast, accessory 4044 provides an adequate ground plane for 2.4GHz operation. When used for 900MHz systems, a larger ground plane is required (4045).

SPECIFICATIONS

ELECTRICAL

FREQUENCY RANGE:
880-1200MHz
2300-2600MHz

GAIN:
2.1dBi

VSWR:
<2:1

IMPEDANCE:
50 ohms

POWER RATING:
200 watts

MECHANICAL

RADIATOR:
Polyester coated Brass

BASE:
ABS, Ultrasonic Brass Insert.

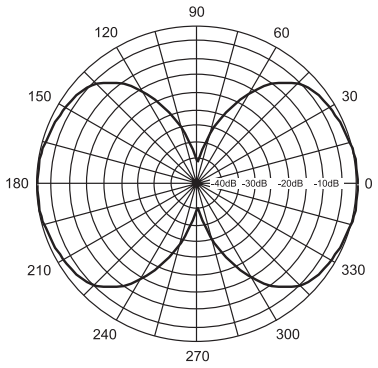
CONTACT:
Gold plated spring loaded contact

LENGTH:
2 3/4"

MOUNTING:
Accessories 4024, 4044, 4045

FINISH:
Black

VERTICAL PATTERN



HORIZONTAL PATTERN IS CIRCULAR

ORDERING INFORMATION

4023	2.1 dBi Gain, 915MHz / 2.4GHz Dual Band Omnidirectional Antenna	QTY _____

NOTE: Accessory 4024 or 4044 is REQUIRED to mount this antenna.

ACCESSORIES

4024	Type N Female to 4023 Antenna Bulkhead Connector	QTY _____
4044	Right Angle Bracket For Masts to 1" Diameter (Includes 4024)	QTY _____
4406	Right Angle Bracket of 4044 without the 4024 connector	QTY _____
4045	Ground Plane GP4 - Use with 4044 for 900MHz	QTY _____
4026	Bulkhead Connector Type N Female to Type N Female	QTY _____
4011	Bulkhead Surge Protector Type N Male to Type N Female	QTY _____
4035	Bulkhead Surge Protector Type N Female to Type N Female	QTY _____
4073	Two Antenna Coupler, Transmit and Receive, 2-Port 900 MHz	QTY _____
4051	Receive Only, 2 to 4 Antenna Coupler 4-Port 900 MHz	QTY _____
4062	50 Ohm Termination, For Unused Ports On P/N 4051,4061	QTY _____

For more accessories, see the ACCESSORIES section of this catalog (Page 51).

CABLES

RP = Reverse Polarity

CPT2	2 Ft WBC195 Cable w/ RP-SMA Male & Type N Male Connector	QTY _____
CPT6	6 Ft WBC195 Cable w/ RP-SMA Male & Type N Male Connector	QTY _____
CPT10	10 Ft WBC195 Cable w/ RP-SMA Male & Type N Male Connector	QTY _____
CPT-X	Custom length WBC195 Cable w/ RP-SMA Male & Type N Male Connector Specify length from 12 inches to 120 Inches Length _____ Inches	QTY _____

C195NM-NM-2	2 Ft WBC195 Cable w/ Type N Male & Type N Male Connector	QTY _____
C400NM-NF-10	10 Ft WBC400 Cable w/ Type N Male & Type N Female Connector	QTY _____
C400NM-NF-20	20 Ft WBC400 Cable w/ Type N Male & Type N Female Connector	QTY _____
C400NM-NF-30	30 Ft WBC400 Cable w/ Type N Male & Type N Female Connector	QTY _____
C400NM-NF-40	40 Ft WBC400 Cable w/ Type N Male & Type N Female Connector	QTY _____
C400NM-NF-50	50 Ft WBC400 Cable w/ Type N Male & Type N Female Connector	QTY _____
C400NM-NF-75	75 Ft WBC400 Cable w/ Type N Male & Type N Female Connector	QTY _____
C400NM-NF-100	100 Ft WBC400 Cable w/ Type N Male & Type N Female Connector	QTY _____
C400NM-NM-10	10 Ft WBC400 Cable w/ Type N Male & Type N Male Connector	QTY _____
C400NM-NM-20	20 Ft WBC400 Cable w/ Type N Male & Type N Male Connector	QTY _____
C400NM-NM-30	30 Ft WBC400 Cable w/ Type N Male & Type N Male Connector	QTY _____
C400NM-NM-40	40 Ft WBC400 Cable w/ Type N Male & Type N Male Connector	QTY _____
C400NM-NM-50	50 Ft WBC400 Cable w/ Type N Male & Type N Male Connector	QTY _____
C400NM-NM-75	75 Ft WBC400 Cable w/ Type N Male & Type N Male Connector	QTY _____
C400NM-NM-100	100 Ft WBC400 Cable w/ Type N Male & Type N Male Connector	QTY _____

For more cables, see the ACCESSORIES section of this catalog (Page 52).