

VINNANT-ANTENA FOR UHF PROFESSIONAL OPERATIONS,TYPE 4 BAY PHASED ARRAY



TYPE : 4BPA 403-470 MHZ

This is 4 bay dipole array for use within

403-470 Mhz

wideband

**PLEASE NOTE THAT MAST IS NO PART OF
DELIVERY.IT IS ONLY FOR ILLUSTRATION PURPOSE
AND MOUNTING SUGGESTION**

to be used for:

HAM 70 cm 430-450 Mhz

444 Mhz

PMR 446 MHZ

OTHER

ANALOG/DIGITAL

ARRAY STAY UNDER OR EQUAL TO SWR 1.5 WITHING SPECIFIELD
FREQUENCY RANGE

Typical SWR to frequency evolution table, measured with AA-1400 analyzer and 5m low loss H155 cable

403 mhz	SWR 1.5
412 mhz	SWR 1.2
419 mhz	SWR 1.0
425 mhz	SWR 1.2
430 mhz	SWR 1.3
435 MHz	SWR 1.1
440 mhz	SWR 1.3
450 mhz	SWR 1.2
462 mhz	SWR 1.1
467 mhz	SWR 1.2
470 mhz	SWR 1.3

Harness is made from low loss double shield H155 Belden cable

antenna is using teflon 4:1 balun

Teflon N female connector

Array cable joints are sealed in heavy duty UV stable shrink tube

The dipole boxes are encapsulated with high voltage resin sealant

for maximum protection available

Array is made very harsh for high demand environments such as icing, strong wind and bird attacks, dipoles are short, small and massive U bolt holders M8

Vertically polarized

mounting facing one direction for slight directional operation

offset mounting for true 360° coverage

Antenna is sent in small packet and needs easy assembly.

NO MAST IS A PART OF THE DELIVERY

folded dipole array with good static protection as array is showing DC short

This array has no connectors for best possible result and low loss connections are sealed with high quality sealant 26kV/mm

Technical parameters:

Array length app 160cm with spacing of $0,78 \times \text{Lambda}$

dipole height about 30cm

Weight 1,8kg

Gain 6-8Dbd depending on spacing

SWR evolution please see SWR table

wide band ,usable from 403-470 mhz

Max power 200W,teflon balun

Connector N female teflon

Temperature range -30 - + 70 C

Impedance 50 Ohm

