

DIAMOND
ANTENNA

COMMUNICATION WORLD

ANTENNAS / ACCESSORIES

CATALOG

8

MOBILE WHIP ANTENNAS
MOBILE RECEIVING ANTENNAS
FIXED STATION ANTENNAS
MOBILE TELEPHONE TYPE ANTENNAS
INDOOR PORTABLE ANTENNAS
TRAP DIPOLE ANTENNAS
GROUND PLANE ANTENNAS
ANTENNAS FOR HANDHELD TRANSCEIVERS
EXTERNAL SPEAKERS
SWR/POWER METERS
COAXIAL SWITCHES
SURGE PROTECTORS
DC POWER SUPPLIES
DC/DC CONVERTERS
DUMMY LOADS DUPLEXERS
COAXIAL CABLES
ANTENNA BRACKETS
MAGNET ANTENNA BASES
CRIP TYPE ANTENNA BASES
AND OTHERS

***Anteny kierunkowe,
dipolowe***

Beam Antenna for The Radio Communications

50MHz Beam Antenna

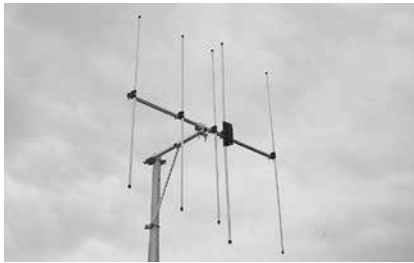


50MHz(6m)2-ELEMENTS PHASED DRIVE BEAM ANTENNA

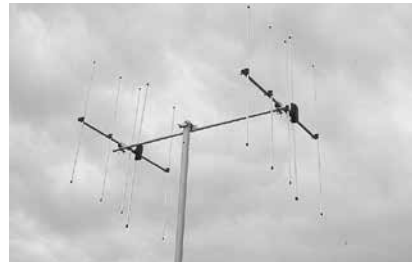
A502HBR

Frequency:50 to 53MHz (Center frequency without adjustment is set to 51MHz)
 Gain:6.3dBi / Max. power rating:400W(SSB) / Impedance:50Ω
 VSWR: Less than 1.5:1(50 to 52MHz without adjustment) / FB ratio : More than 15dB
 Half power band width: Less than 70degrees / Wind surface area:0.14m²
 Rated wind velocity:40m/sec. / Turning radius: approx.1600mm / Connector:M-P(M-J)
 Mast diameter accepted:25mm to 56mm
 Dimensions:800mmx3000mmx85mm / Weight:1.7kg

144MHz(2m) Beam Antenna



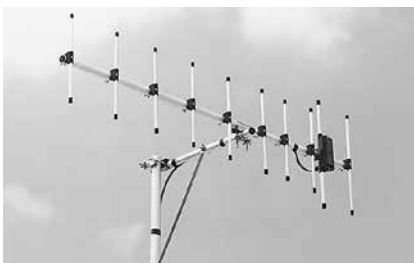
A144S5R (Single)
 Support boom element for single antenna (optional) is required for one antenna operation.



A144S5R (Parallel stack)
 For two antennas, support boom element for dual antenna parallel stacked antennas(optional), and stack transformer(optional) are required for parallel stack operation.

Model	Single		Parallel stack	
	A144S5R (5 elements)	A144S10R (10 element)	A144S5R (X2)	A144S10R (X2)
Frequency	144 to 146MHz		144 to 146MHz	
Gain	9.1dBi	11.6dBi	11.5dBi	13.5dBi
Max.power rating	50W		100W	
Impedance	50Ω		50Ω	
VSWR	Less than 1.3:1		Less than 1.5:1	
Weight	0.63kg	1.1kg	2.2kg	3.2kg
Dimensions	950x1090x73mm	2130x1090x73mm	950x1090x1320mm	2130x1090x1320mm
Mast diameter accepted(mm)	25mm to 47mm(with support boom element for single antenna)		25mm to 56mm(with support boom element for dual antenna parallel stacked antennas)	
Connector	M-J		M-J	
FB ratio	More than 14dB	More than 15dB	More than 16dB	More than 17dB
Wind surface area	0.1m ²	0.16m ²	0.19m ²	0.31m ²
Turning radius	approx.860mm	approx.1450mm	approx.870mm	approx.1465mm

430MHz(70cm) Beam Antenna



A430S10R(Single)
 Support boom element for single antenna (optional) is required for one antenna operation.



A430S10R (Parallel stack)
 For two antennas, support boom element for dual antenna parallel stacked antennas(optional), and stack transformer(optional) are required for parallel stack operation.

Model	Single		Parallel stack	
	A430S10R(10 elements)	A430S15R(15 elements)	A430S10R(x 2)	A430S15R(x 2)
Frequency	430 to 440MHz		430 to 440MHz	
Gain	13.1dBi	14.8dBi	15.1dBi	16.8dBi
Max.power rating	50W		100W	
Impedance	50Ω		50Ω	
VSWR	Less than 1.4:1		Less than 1.5:1	
Weight	0.64kg	0.97kg	2.1kg	2.8kg
Dimensions	1190mmx370mmx73mm	2245mmx370mmx73mm	1190mmx370mmx830mm	2245mmx370mmx830mm
Mast diameter accepted(mm)	25mm to 47mm(with support boom element for single antenna)		25mm to 56mm(with support boom element for parallel stacked antenna)	
Connector	M-J		M-J	
FB ratio	More than 15dB	More than 14dB	More than 15dB	More than 16dB
Wind surface area	0.07m ²	0.11m ²	0.14m ²	0.22m ²
Turning radius	approx.820mm	approx.1390mm	approx.835mm	approx.1410mm

Optional Parts for Beam Antenna



Support boom element for parallel stacked antennas

SB144R
(144MHz/2m)

SB430R
(430MHz/70cm)



Support boom element for single antenna

KB144R
(144MHz/2m)

KB430R
(430MHz/70cm)



Stack transformer

SS770R
144MHz(2m)/430MHz(70cm)

144/430MHz(2m/70cm) Beam Antenna



A1430S7

Frequency: 144/430MHz(2m/70cm)
Gain: 7.5dBi (144MHz), 9.3dBi (430MHz)
Max. power rating: 100W (FM)
Impedance: 50Ω
VSWR: Less than 1.5
Boom length: 1.25m
Element length: 1.02m (MAX)

Weight: 0.95kg
Connector: M-J
Rated wind velocity: 35m/sec.
Mast diameter accepted: 25-62φ
Type: 3-element beam antenna (144MHz), 5-element beam antenna (430MHz)
Wind surface area: 0.17m²
FB ratio: More than 11.5dB(144MHz), More than 8.0dB (430MHz)
Tuning radius: Approx. 1.2m

HF Dipole Antenna

7/14/21/28/50MHz(40m/20m/15m/10m/6m) Traped V-Dipole Antenna



HFV5

•7/14/21/28/50MHz(40m/20m/15m/10m/6m)
•150W(SSB)(7/14MHz),220W(SSB)(21/28/50MHz)
Impedance:50Ω
VSWR:Less than 1.5:1(Within Resonant frequency band)
Length:4.0m / Weight:1.95kg
Mast diameter accepted:25mm to 62mm
Connector:M-J / Type:Traped dipole



HFVC18

18MHz Loding coil for HFV5 only.
Frequency:18MHz Band
Max. Power rating: 150W(SSB)
VSWR:Less than 1.5



HFV330

Frequency:3.5-25MHz(long element) / 21-30MHz(short element)
Max. power rating: 250W(SSB),80W(CW,FM)
Impedance: 50Ω
SWR:Less than 1.5 (at resonate frequency)
Connector: M-J
Element length:2.53m (one side)
Tuning-radius: Approx. 1.9m
Weight: Approx. 5.9kg

Rated wind velocity: 35m/sec.
Type: V dipole antenna
Mast diameter Accepted: φ 38-φ 60
Control cable: 1.5m(included)
Power Supply voltage current: 12V 300mA



SDC2

Controller for HFV330



ETK10

10m extension cable for HFV330

HF Dipole Antenna



W-721

7/21MHz(40m/15m)
Max.power rating:1.2kW(PEP) Length:12.4m / Weight:1.2kg

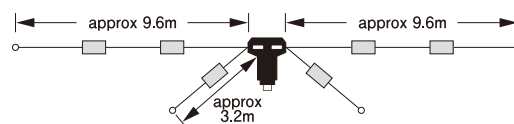
W-735

3.5/7MHz(80m/40m)
Max. power rating:1.2kW(PEP) Length:26m / Weight:1.85kg



W-8010

3.5/7/14/21/28MHz(80m/40m/20m/15m/10m)
Max. power rating:1.2kW(PEP) Length:19.2m / Weight:2.5kg



BB series Broad Band Antenna



BB6W HF Wide Band Wire Antenna

2-30MHz Max. power rating:250W (SSB) Length:approx.6.4m / Weight: 0.8kg / TYPE:Long wire type / Connector:M-J

BB7V HF Wide Band GP Antenna

2-30MHz Max. power rating:250W (SSB) Length:approx.6.7m / Weight: 2.3kg / Connector:M-J

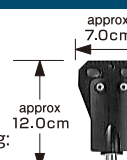


Balun



BU50

- 1.7 to 40MHz
- 50Ω
- Max. power rating: 1.2kW(PEP)
- Connector:M-J



BU55

- 3 to 75MHz
- 50Ω
- Max. power rating: 500W(PEP)
- Connector:M-J

Uwaga:

To jest tylko część katalogu z produktami Diamond Antenna. Pełny katalog w formie pdf (rozmiar 15MB) załadujesz pod adresem lub kliknij:
inradio.pl/diamond-katalog/DIAMOND-2019.pdf

NOTE

M connector

Though M receptacle being use throughout antennas are identical in its outlook with conventional UHF type receptacle, its characteristic performance is almost the same as one in N type receptacle, it is highly recommended to use DIAMOND's genuine antenna brackets and connection cables to maintain maximum antenna performance,(Due to difference in their thread pitch, same so called UHF type connectors can not fit in our receptacle.)

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