

DIAMOND
ANTENNA

COMMUNICATION WORLD

ANTENNAS / ACCESSORIES

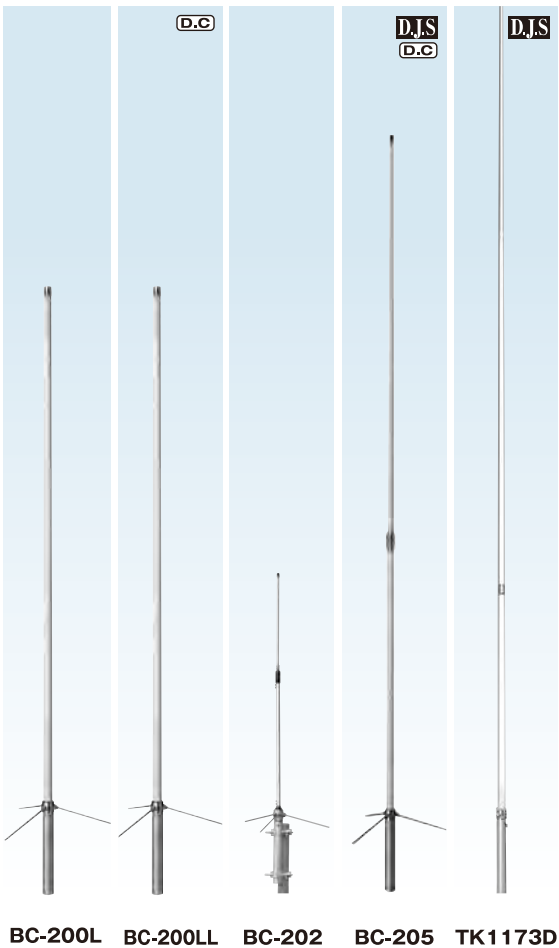
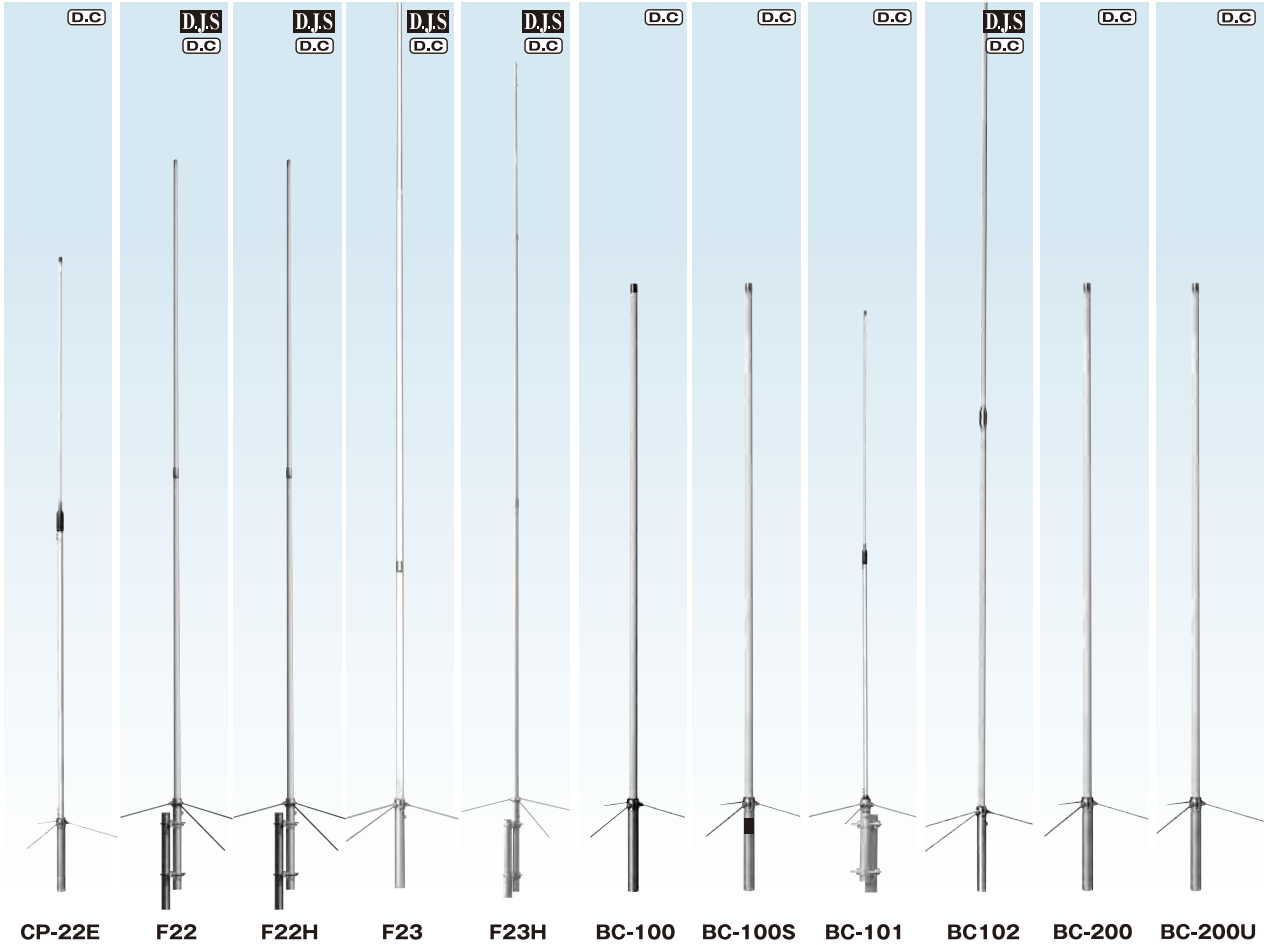
CATALOG

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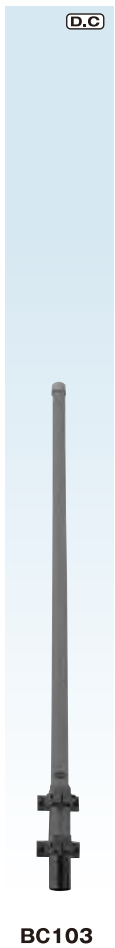
MOBILE WHIP ANTENNAS
MOBILE RECEIVING ANTENNAS
FIXED STATION ANTENNAS
MOBILE TELEPHONE TYPE ANTENNAS
INDOOR PORTABLE ANTENNAS
TRAP DIPOLE ANTENNAS
GROUND PLANE ANTENNAS
ANTENNAS FOR HANDHELD TRANSCEIVERS
EXTERNAL SPEAKERS
SWR/POWER METERS
COAXIAL SWITCHES
SURGE PROTECTORS
DC POWER SUPPLIES
DC/DC CONVERTERS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

Anteny bazowe KF

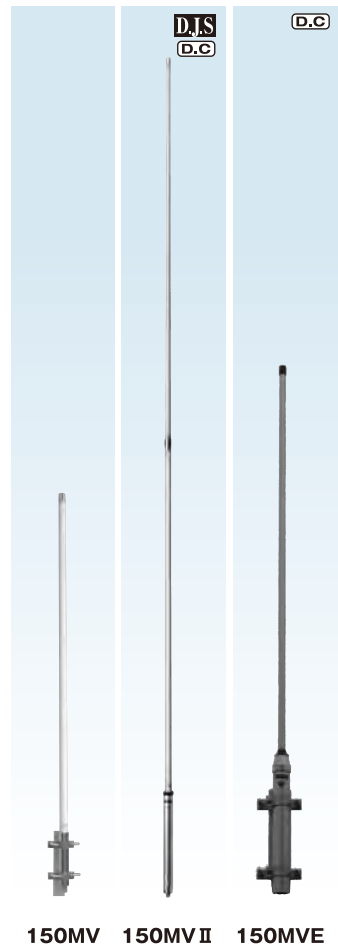
**HF/V/UHF
Fixed
Station
Antenna**



**VHF
Fixed Station
Wide Band
Antenna**



**V/UHF
Marin
Fixed Station
Antenna**



HF Dipole Antenna

BB series

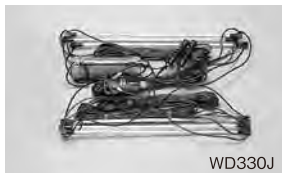
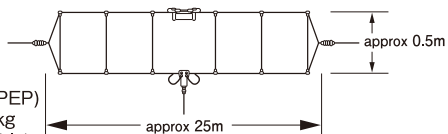


WD330

WD330

2 to 30MHz
Max. power rating:150W(PEP)
Length:25m / Weight:3.1kg
(except coaxial cable)

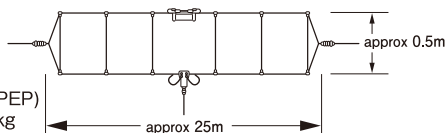
Coaxial Cable:5D-2V 30m w/M-Connector / Plastic rope is optional
VSWR:Less than 2.0(2-18MHz) Less than 3.0(18-30MHz)



WD330J

WD330J

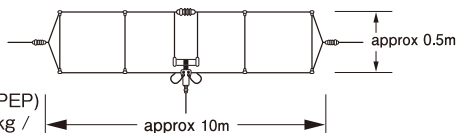
2 to 30MHz
Max. power rating:150W(PEP)
Length:25m / Weight:3.1kg
VSWR:Less than 2.0(2-18MHz)
Less than 3.0(18-30MHz)



BB6W

BB6W HF Wide Band Wire Antenna

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



WD330S

2 to 28.6MHz
Max. power rating:150W(PEP)
Length:10m / Weight:1.7kg /
With two 10m plastic ropes

Without coaxial cable assembly
VSWR:Less than 2.0(2-18MHz) Less than 3.0(18-28.6MHz)

BB7V HF Wide Band GP Antenna

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



D.J.S

Direct Joint System, This mark indicates that the antenna has a direct joint system. Overlapped FRP outershell achieves the antenna to be almost the same strength as one piece structure. Element joint section is tightly waterproofed by ring gaskets. FRP outershell avoids salt disposition on radiator element. Maximum wind velocity factor of the antenna complies with professional antenna specification.

D.C

This mark indicates that the antenna is DC ground structure. Radiator element is grounded direct current. It is possible to protect radio equipment from high voltage caused by thunder lightning.

Model	Frequency	Gain	Max. power rating	Length	Weight	Rated wind velocity	Mast diameter accepted	Connector	Type
HF/UHF Fixed Station Antenna with Cutting Chart									
CP-22E	144 to 174MHz	6.5dB	200W	2.7m	1.1kg	45m/sec.	φ 30-62	MJ	omnidirectional 2×5/8 λ
F22	144 to 174MHz	6.7dB	200W	3.2m	1.3kg	50m/sec.	φ 30-62	MJ	omnidirectional 2×7/8 λ ,FRP outershell
F22H	144 to 174MHz	6.7dB	350W	3.2m	1.3kg	50m/sec.	φ 30-62	MJ	omnidirectional 2×7/8 λ ,FRP outershell
F23	144 to 174MHz	7.8dB	200W	4.6m	1.7kg	50m/sec.	φ 30-62	MJ	omnidirectional 3×5/8 λ ,FRP outershell
F23H	144 to 174MHz	7.8dB	350W	5.2m	2.0kg	40m/sec.	φ 30-62	MJ	omnidirectional 3×5/8 λ ,FRP outershell
BC-100	134 to 174MHz	3.8dB	200W	1.7m	1.2kg	60m/sec.	φ 30-62	MJ	omnidirectional 5/8 λ ,FRP outershell
BC-100S	115 to 174MHz	3.4dBi	100W	1.7m	1.2kg	60m/sec.	φ 30-62	MJ	omnidirectional 5/8 λ ,FRP outershell
BC-101	144 to 174MHz	3.5dB	200W	1.5m	0.86kg	50m/sec.	φ 30-60	MJ	omnidirectional 5/8 λ GP
BC-102	134 to 174MHz	6.5dB	200W	3.2m	1.3kg	50m/sec.	φ 30-60	MJ	omnidirectional 2×5/8 λ
BC-200	430 to 490MHz	6.5dB	200W	1.7m	0.9kg	60m/sec.	φ 30-62	MJ	omnidirectional 3×5/8 λ ,FRP outershell
BC-200U	450 to 510MHz	6.5dB	200W	1.7m	0.9kg	60m/sec.	φ 30-60	MJ	omnidirectional 3×5/8 λ ,FRP outershell
BC-200L	370 to 430MHz	5.5dB	200W	1.7m	0.9kg	60m/sec.	φ 30-62	MJ	omnidirectional 2×5/8 λ ,FRP outershell
BC-200LL	320 to 380MHz	5.5dB	200W	1.7m	0.9kg	60m/sec.	φ 30-62	MJ	omnidirectional 2×5/8 λ ,FRP outershell
BC-202	430 to 490MHz	6.5dB	200W	1.15m	0.75kg	55m/sec.	φ 30-60	MJ	omnidirectional 2×5/8 λ stacked GP
BC-205	430 to 490MHz	8.5dBi	200W	2.9m	1.15kg	50m/sec.	φ 30-62	MJ	omnidirectional 5x5/8 λ
TK1173D	2 to 30MHz	-	-	4.53m	1.4kg	40m/sec.	φ 30-62	MJ	-
VHF Fixed Station Wide Band Antenna									
BC103	144 to 174MHz	2.15-3.2dBi	300W	1.25m	1.4kg	60m/sec.	φ 30-62	MJ	omnidirectional 1/2 λ - 5/8 λ
V/UHF Marin Fixed Station Antenna									
150MV	TX 156to157MHz RX 156 to162.5MHz	2.15dBi	50W	1.23m	0.7kg	60m/sec.	φ 30-62	MJ	omnidirectional 1/2 λ
150MV II	TX 156 to 157MHz RX 156 to162.5MHz	6.0dBi	150W	2.8m	1.0kg	50m/sec.	φ 30-62	MJ	2x5/8 λ
150MVE	TX 156 to 157MHz RX 156 to 162.5MHz	2.15dBi	50W	1.13m	0.63kg	45m/sec.	φ 30-62	MJ	1/2 λ GP

* Impedance : 50 Ω, VSWR : Less than 1.5, Less than 2.0 (BC103)

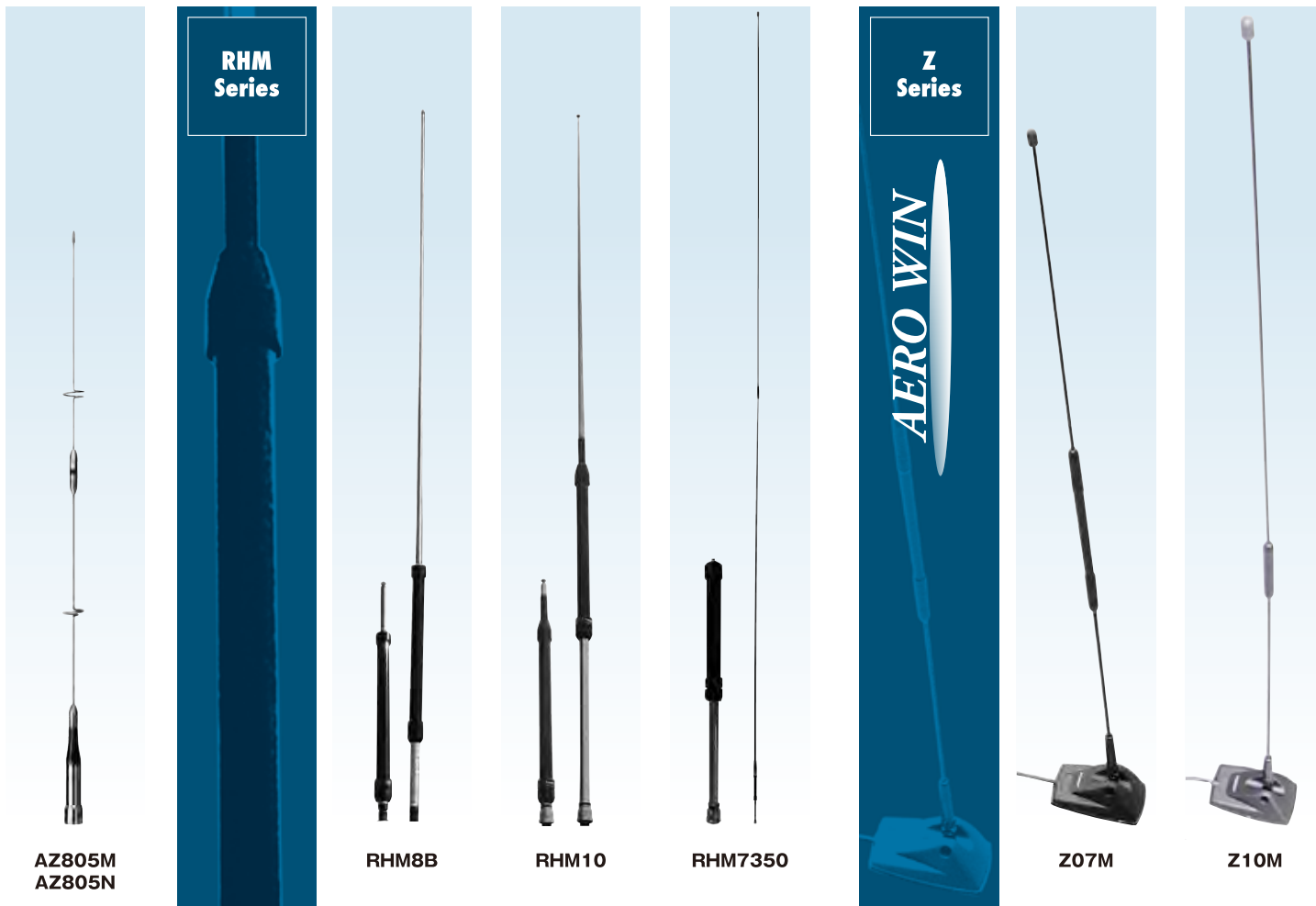
HF Dipole Antenna

WD330	2 to 30MHz	-	150W(PEP)	25m	3.1kg (except coaxial cable)	-	-	MJ	With 5D2V 30m coaxial cable assembly / Plastic rope is optional
WD330J	2 to 30MHz	-	150W(PEP)	25m	3.1kg	-	-	MJ	-
WD330S	2 to 28.6MHz	-	150W(PEP)	10m	1.7kg	-	-	MJ	With two 10m plastic rope Without coaxial cable assembly

BB series Broad Band Antenna

BB6W	2 to 30MHz	-	250W(SSB)	6.4m	0.8kg	-	-	MJ	Long wire type
BB7V	2 to 30MHz	-	250W(SSB)	6.7m	2.3kg	-	-	MJ	-

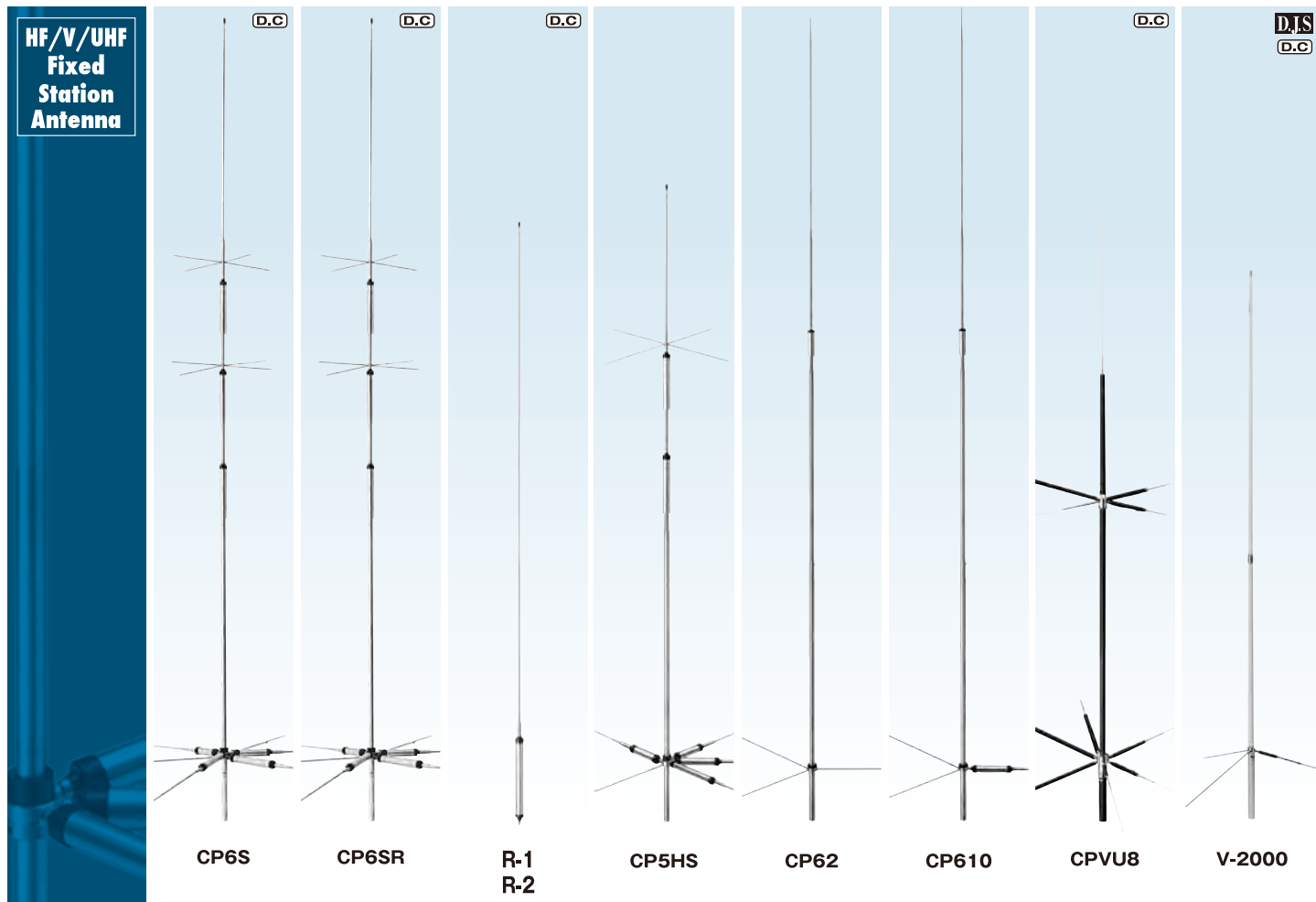
Amateur radio antennas



Model	Frequency	Gain	Max. power rating	Length	Weight	Connector	Type
SLIM GAINER HF/V/UHF Mobile Whip Antenna							
AZ504FX	144/430MHz(2m/70cm)	2.15dBi(430MHz)	50W FM (Total)	0.39m	70g	MP	1/4λ(144MHz),1/2λ radialless(430MHz)
AZ506FXH	144/430MHz(2m/70cm)	2.15dBi(144MHz),4.5dBi(430MHz)	50W FM (Total)	0.66m	80g	MP	3/8λ (144MHz), 3/4λ (430MHz)
AZ506FX	144/430MHz(2m/70cm)	2.15dBi(144MHz),4.5dBi(430MHz)	50W FM (Total)	0.67m	85g	MP	3/8λ(144MHz), 3/4λ(430MHz) Nickel titanium/FRP outershell
AZ507FXH	144/430MHz(2m/70cm)	2.15dBi(144MHz),4.9dBi(430MHz)	50W FM (Total)	0.75m	120g	MP	1/2λradialless (144MHz), 2 x 5/8λradialless (430MHz)
AZ507FX	144/430MHz(2m/70cm)	2.15dBi(144MHz),4.9dBi(430MHz)	50W FM (Total)	0.75m	120g	MP	1/2λ radialless(144MHz), 2x5/8λ radialless(430MHz)
AZ510FX	144/430MHz(2m/70cm)	2.15dBi(144MHz),5.5dBi(430MHz)	50W FM (Total)	0.92m	100g	MP	1/2λ radialless(144MHz), 2x5/8λ radialless(430MHz) / Nickel titanium/FRP outershell
AZ503	144/430MHz(2m/70cm)	1.69dBi(430MHz)	50W FM (Total)	0.34m	65g	MP	1/4λ(144MHz), 3/8λ(430MHz)
AZ504	144/430MHz(2m/70cm)	2.15dBi(430MHz)	50W FM (Total)	0.39m	70g	MP	1/4λ(144MHz), 1/2λ radialless(430MHz)
AZ505/N	144/430MHz(2m/70cm)	3.8dBi(430MHz)	50W FM (Total)	0.47m	75g	MP/NP	1/4λ(144MHz), 6/8λ C-Load radialless(430MHz)
AZ506	144/430MHz(2m/70cm)	2.5dBi(144MHz),4.5dBi(430MHz)	50W FM (Total)	0.67m	100g	MP	3/8λ(144MHz), 3/4λ(430MHz)
AZ507R	144/430MHz(2m/70cm)	2.15dBi(144MHz), 4.9dBi(430MHz)	50W FM (Total)	0.75m	120g	MP	1/2λ radialless(144MHz), 2 x 5/8λ radialless(430MHz)
AZ510/N	144/430MHz(2m/70cm)	2.15dBi(144MHz), 5.5dBi(430MHz)	50W FM (Total)	0.95m	120g	MP/NP	1/2λ radialless(144MHz), 2x5/8λ radialless(430MHz)
AZ510FMH	144/430MHz(2m/70cm)	2.15dBi(144MHz),5.5dBi(430MHz)	50W FM (Total)	0.91m	105g	MP	1/2λ radialless(144MHz),2x5/8λ radialless(430MHz)
AZ910	50/144/430MHz (6m/2m/70cm)	2.15dBi (144MHz), 5.5dBi (430MHz)	50W FM (Total)	0.95m	120g	MP	1/4λ(51-52MHz), 1/2λradialless (144MHz), 2x5/8λradialless(430MHz),
AZ805M/N	144/430/1200MHz(2m/70cm/23cm)	3.8dBi (430MHz), 7.2dBi (1200MHz)	50W FM (Total)	0.57m	84g	MP/NP	1/4λ(144MHz), C-Load radialless(430MHz), 3x5/8λradialless (1200MHz)
RHM Series							
RHM8B	7-50MHz	—	120W (SSB)	0.5-1.78m	285g	BNC-P	1/4 wave reduced (HF band), 1/4 wave(50MHz)
RHM10	7-430MHz	—	130W (SSB)	0.5-1.77m	300g	MP	1/4 wave reduced (HF band), 1/4 wave(50/144MHz),5/8 wave (144/430MHz) 144MHz can be operated at both 1/4 wave and 5/8 wave by the length of the rod element.
RHM7350	7-30/50MHz	—	130W(SSB),40W(FM/CW)	1.34-2.6m	290g	MP	1/4λreduced type (HF), 1/4λ(50MHz)
Z Series							
Z07M	144/430MHz(2m/70cm)	2.15dBi(144MHz), 4.9dBi (430MHz)	60W FM (Total)	70cm	290g	MP	1/2λ radialless (144MHz), 2 x 5/8 λradialless (430MHz)
Z10M	144/430MHz(2m/70cm)	2.15dBi(144MHz), 5.5dBi (430MHz)	60W FM (Total)	86cm	270g	MP	1/2λ radialless (144MHz), 2 x 5/8 λradialless (430MHz)

*Impedance:50Ω, VSWR:Less than 1.5

Amateur radio antennas



Model	Frequency	Gain	Max. power rating	Length	Radial Length	Weight	Rated wind velocity	Mast diameter accepted	Connector	Type
HF/V/UHF Fixed Station Antenna										
CP6S	3.5/7/14/21/28/50MHz*1) (80m/40m/20m/15m/10m/6m)	—	200W(SSB)	4.6m	approx. 1.8m	4.9kg	40m/sec.	φ30-62	MJ	6 band trap vertical antenna with trap radials. One direction style radial elements 29MHz(FM).
CP6SR	3.5/7/14/21/28/50MHz*2) (80m/40m/20m/15m/10m/6m)	—	200W(SSB)	4.6m	approx. 1.8m	4.9kg	40m/sec.	φ30-62	MJ	6 band trap vertical antenna with trap radials. One direction style radial elements 29MHz(FM).
R-1	3.575 - 3.650MHz	—	—	1.8m	—	0.7kg	—	—	—	Optional Radial Coil for CP6
R-2	3.650 - 3.725MHz	—	—	1.8m	—	0.7kg	—	—	—	Optional Radial Coil for CP6
CP5HS	7/14/21/28/50 MHz (40m/20m/15m/10m/6m)	—	200W SSB(7MHz), 400W SSB(14/21MHz), 500W SSB(28/29/50MHz)	3.6m	1.8m	3.4kg	45m/sec.	φ30-62	MJ	5 bands trap vertical antenna
CP62	50MHz (6m)	5.5dBi	500W (SSB), 200W (FM)	approx. 6.8m (MAX)	approx. 1.5m	2.7kg	35m/sec.	φ30-62	MJ	2x5/8λ
CP610	28(29)/50MHz (10m/6m)	3.4dBi (28MHz), 5.5dBi (50MHz)	500W (SSB), 200W (FM)	approx. 6.8m (MAX)	approx. 1.8m (28MHz), approx. 1.5m (50MHz)	2.9kg	35m/sec.	φ30-62	MJ	5/8λ(28MHz), 2x5/8λ(50MHz)
CPVU8	3.5/7/14/21/28/50/144/430MHz (80m/40m/20m/15m/10m/6m/2m/70cm)	2.15dBi (144MHz), 5.5dBi (430MHz)	200W SSB(3.5-50MHz), 150W FM (50-430MHz)	2.7m	—	2.4kg	40m/sec.	φ30-62	MJ	8 bands GP
V2000	50/144/430MHz(6m/2m/70cm)	2.15dBi(50-52MHz), 6.2dBi(144MHz),8.4(430MHz)	150W(Total)	2.5m	approx. 92cm	1.2kg	50m/sec.	φ30-62	MJ	1/2λ C-Load(50MHz),2x5/8λC-Load(144MHz), 4x5/8λ C-Load(430MHz)

* Impedance : 50Ω, VSWR : Less than 1.5 ※1) 80m : 3.50~3.60MHz ※2) 80m : 3.650~3.725MHz

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

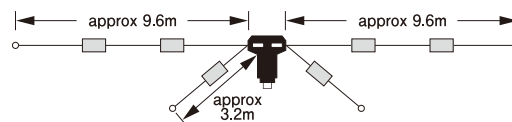
W-735

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

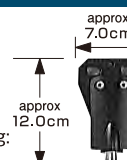


Balun



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.)

DIAMOND ANTENNA CORPORATION

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