

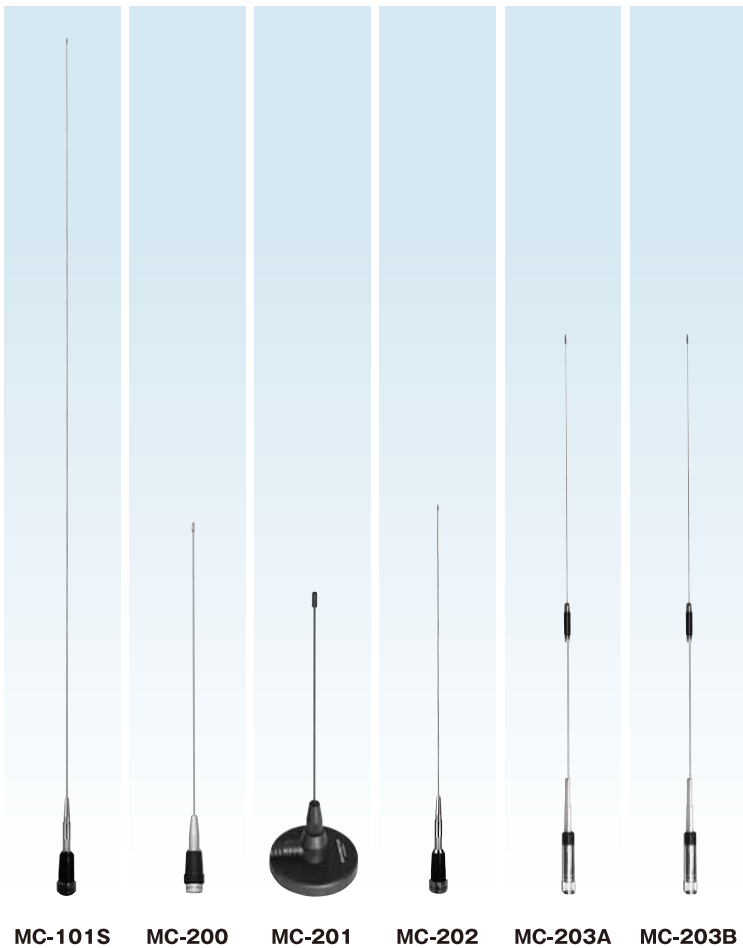
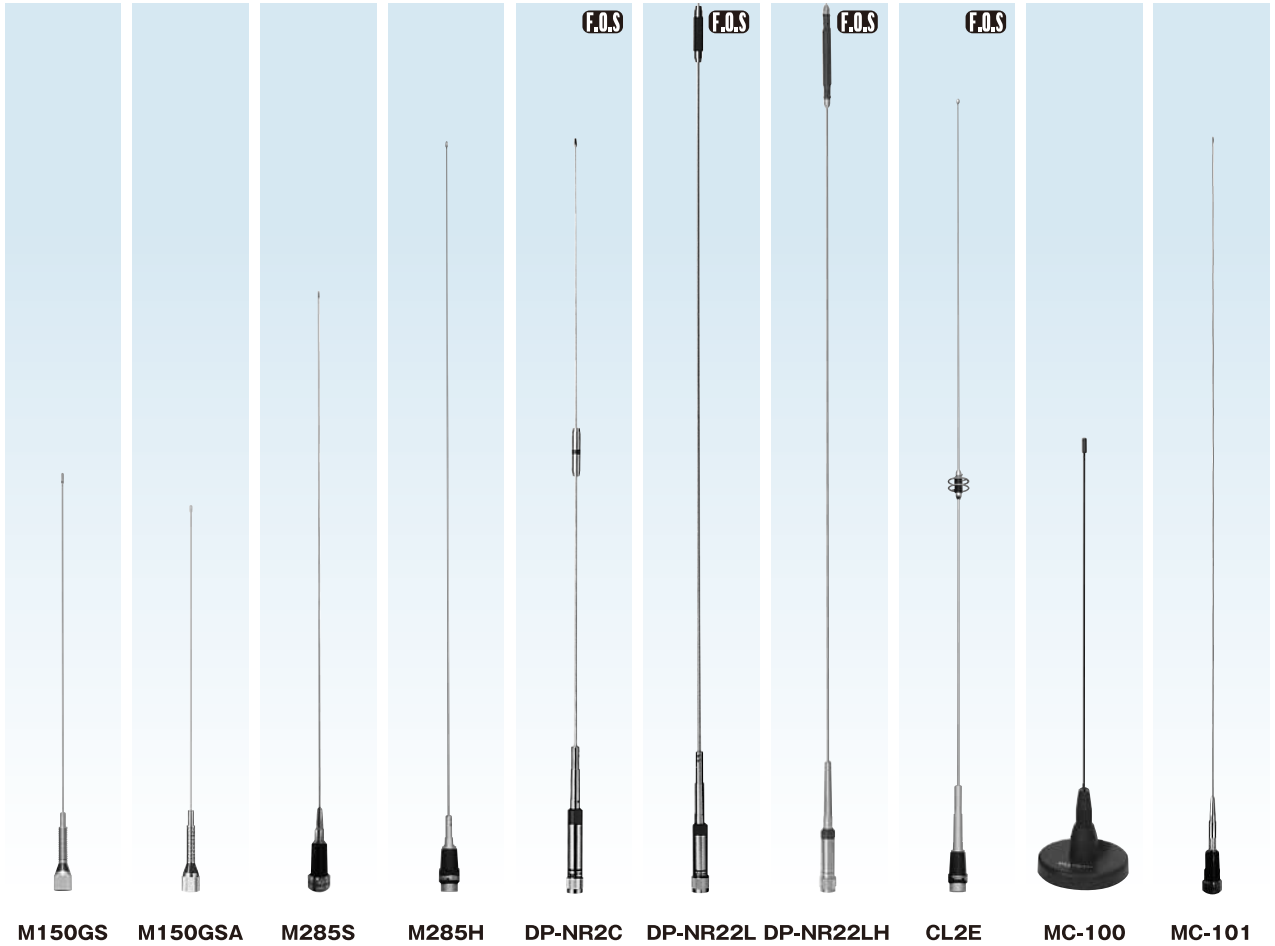
DIAMOND
ANTENNA

COMMUNICATION WORLD

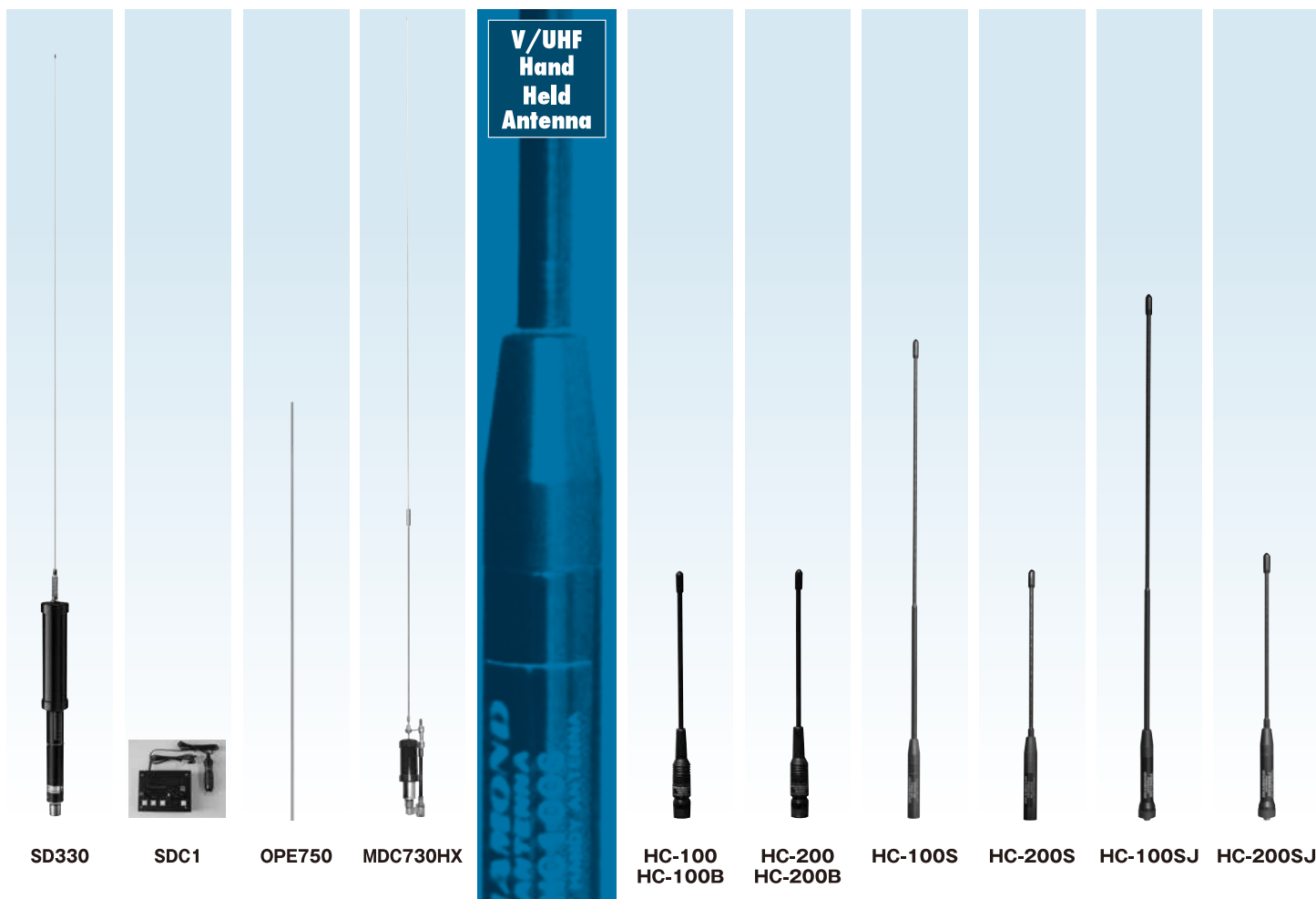
ANTENNAS / ACCESSORIES

CATALOG

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



Commercial antennas



SD330

SDC1

OPE750

MDC730HX

HC-100
HC-100B

HC-200
HC-200B

HC-100S

HC-200S

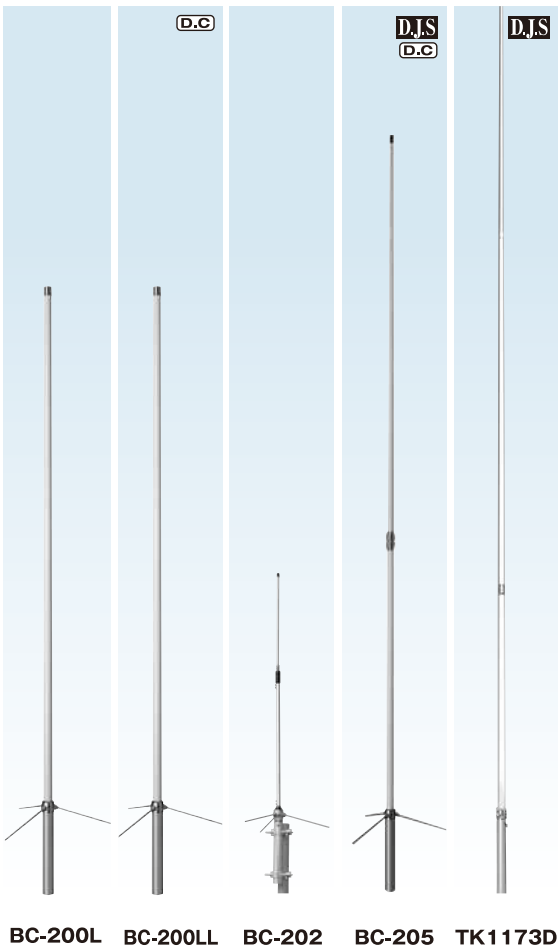
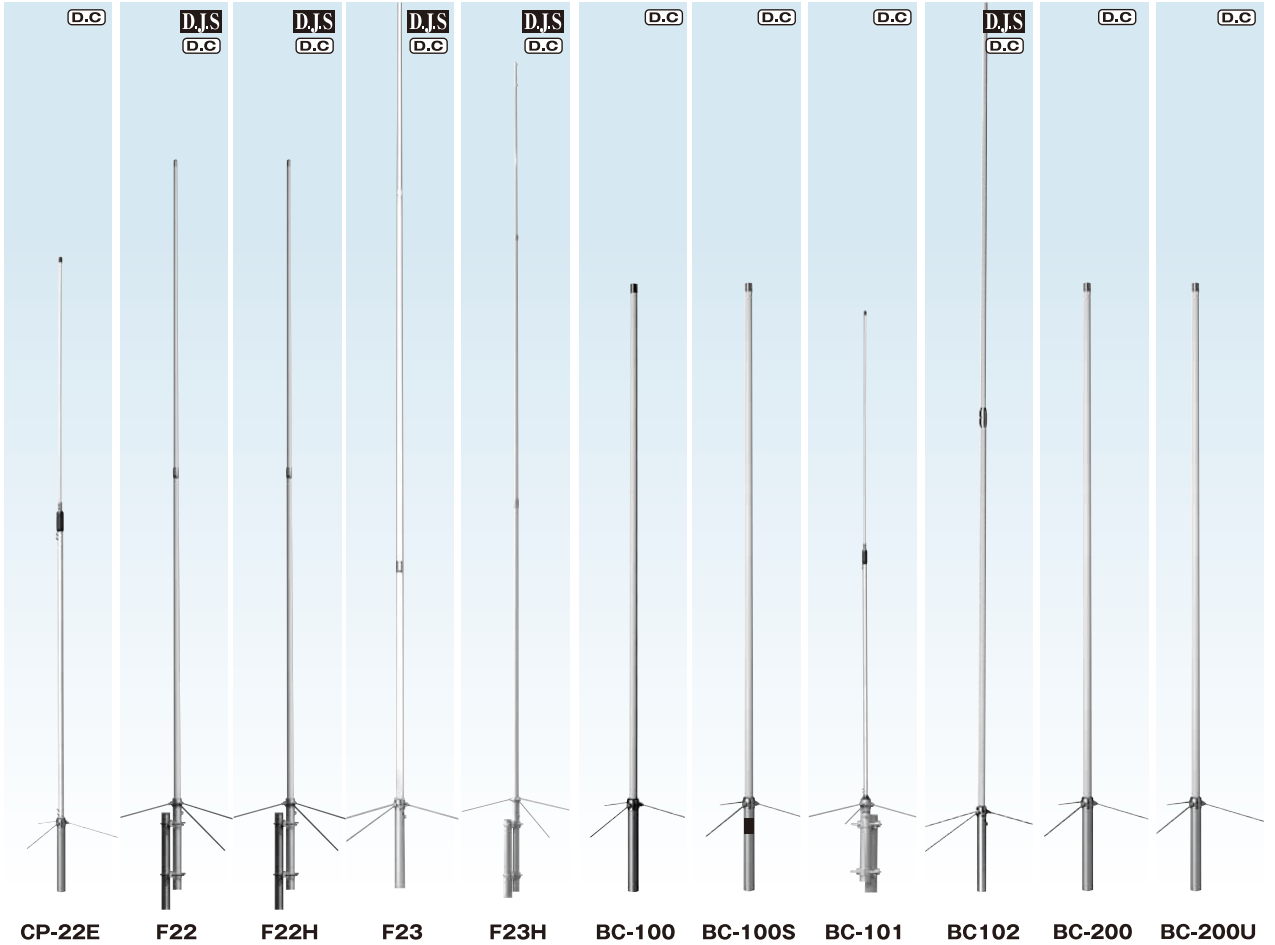
HC-100SJ

HC-200SJ

Model	Frequency	Gain	Max. power rating	Length	Weight	Connector	Type
V/UHF Mobile Whip Antenna with Cutting Chart							
M150GS	134 to 174MHz	2.15dBi	200W	0.58m	160g	MP	1/4λ
M150GSA	144 to 174MHz	2.15dBi	200W	0.50m	110g	MP	1/4λ
M285S	144 to 174MHz	3.4dB	200W	1.33m	180g	MP	5/8λ
M285H	134 to 174MHz	3.4dB	250W	1.40m	200g	MP	5/8λ
DP-NR2C	144 to 174MHz	4.1dB	150W	1.41m	200g	MP	6/8λ
DP-NR22L	144 to 160MHz	6.5dB	100W	2.46m	500g	MP	2 × 5/8λ radialless
DP-NR22LH	144 to 174MHz	6.5dB	280W	2.52m	520g	MP	2 × 5/8λ radialless
CL2E	144 to 174MHz	4.1dB	200W	1.45m	220g	MP	6/8λ
MC-100	134 to 174MHz	2.15dBi	70W	0.52m	390g	MP	1/4λ magnet mount antenna (with RG58/U 4m)
MC-101	134 to 174MHz	3.4dB	200W	1.42m	180g	MP	5/8λ
MC-101S	117 to 174MHz	3.4dB	200W	1.62m	180g	MP	5/8λ
MC-200	340 to 520MHz	3.4dB	250W	0.57m	170g	MP	5/8λ
MC-201	340 to 520MHz	2.15dBi	100W	0.31m	370g	MP	1/4λ magnet mount antenna (with RG58/U 4m)
MC-202	340 to 520MHz	3.4dB	200W	0.54m	130g	MP	5/8λ
MC203A	430 to 470MHz	5.5dBi	200W	0.86-0.97m	210g	MP	2 × 5/8 λ
MC203B	460 to 490MHz	5.5dBi	200W	0.86-0.97m	210g	MP	2 × 5/8 λ
VHF Mobile Wide Band Antenna							
MC103A	132 to 155MHz	3.2dBi	200W	1.515m	430g	MP	3/4 λ
MC103B	150 to 172MHz	3.2dBi	200W	1.41m	390g	MP	3/4 λ
HF Mobile Antenna							
TK1173A	2 to 30MHz	—	—	2.2m	3.3kg	—	—
SD330	3.5 to 30MHz	—	200W (SSB)	1.85m	1.1kg	MP	1/4 λ center loading
SDC1	—	Please refer to P.12 for the details.					
OPE750	7 to 50MHz	—	—	770mm	—	—	Optional element for SD330
MDC730HX	7 to 30MHz	—	200W(SSB),70W(FM,CW)	—	700g	—	Coil only (Optional coil for MD200)
V/UHF Hand held Antenna with Cutting Chart							
HC-100/B	134 to 174MHz	2.15dBi	10W	0.19m	45g	TNCP/BNCP	1/4λ,120/150/300/450/800/900MHz receiving only
HC-200/B	350 to 520MHz	2.15dBi	10W	0.19m	45g	TNCP/BNCP	1/4λ,120/150/300/450/800/900MHz receiving only
HC-100S	134 to 174MHz	2.15dBi	10W	0.40m	39g	SMAP	1/4λ,120/150/300/450/800/900MHz receiving only
HC-200S	350 to 520MHz	2.15dBi	10W	0.20m	27g	SMAP	1/4λ,120/150/300/450/800/900MHz receiving only
HC-100SJ	134 to 174MHz	2.15dBi	10W	0.40m	39g	SMAJ	1/4λ,120/150/300/450/800/900MHz receiving only
HC-200SJ	350 to 520MHz	2.15dBi	10W	0.20m	27g	SMAJ	1/4λ,120/150/300/450/800/900MHz receiving only

*Impedance:50Ω,VSWR:Less than 1.5
Less than 2.0(MC-101S, MC103A, MC103B)

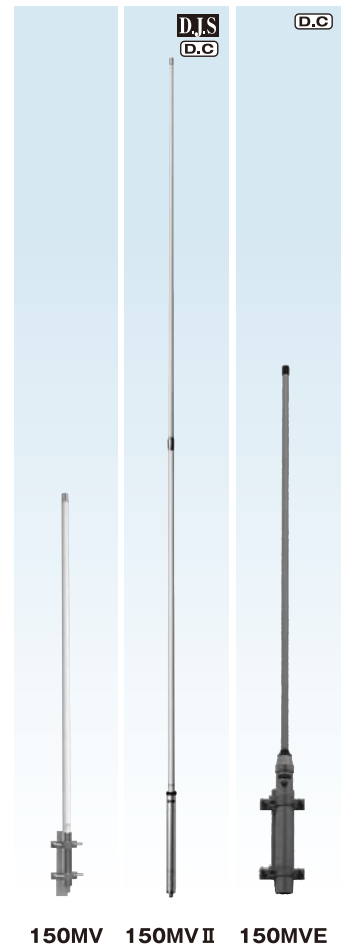
**HF/V/UHF
Fixed
Station
Antenna**



**VHF
Fixed Station
Wide Band
Antenna**



**V/UHF
Marin
Fixed Station
Antenna**



Commercial antennas

HF Dipole Antenna

BB series

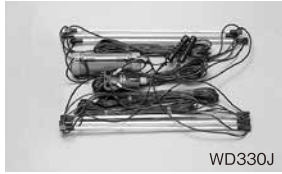
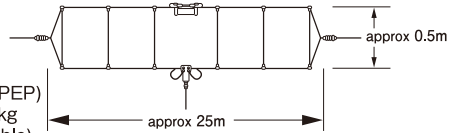


WD330

WD330

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

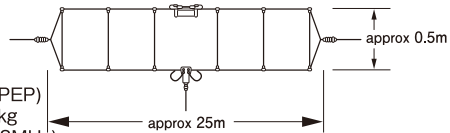
Coaxial Cable:5D-2V 30m w/M-Connector / Plastic rope is optional
VSWR:Less than 2.0(2-18MHz) Less than3.0(18-30MHz)



WD330J

WD330J

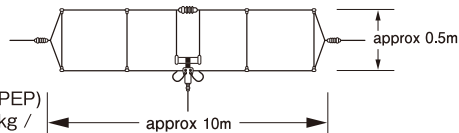
2 to 30MHz
Max. power rating:150W(PEP)
Length:25m / Weight:3.1kg
VSWR:Less than 2.0(2-18MHz)
Less than3.0(18-30MHz)



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 than3.0(18-28.6MHz)



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

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)

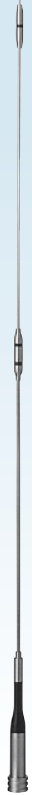
HF Dipole Antenna									
WD330	2 to 30MHz	—	150W(PEP)	25m	3.1kg (except coaxial cable)	—	—	MJ	With 5D2V 30m coaxial cable assembly / Plastic rope is optional
WD330J	2 to 30MHz	—	150W(PEP)	25m	3.1kg	—	—	MJ	—
WD330S	2 to 28.6MHz	—	150W(PEP)	10m	1.7kg	—	—	MJ	With two 10m plastic rope Without coaxial cable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

HF/V/UHF
Mobile
Whip
Antenna

SUPER GAINER

F.O.S



SG2000

F.O.S



SG7000

F.O.S



SG7100R

F.O.S



SG7200

F.O.S



SG7400

F.O.S



SG7500

F.O.S



SG7700

F.O.S



SG7900

F.O.S



SG9500M
SG9500N

F.O.S



SG9600

F.O.S

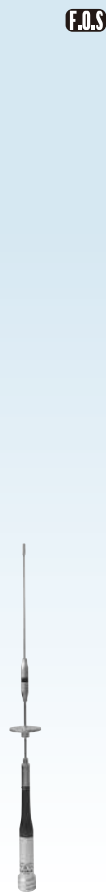


SG9700

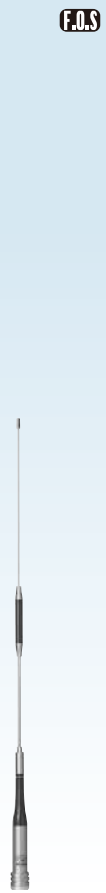
Amateur radio antennas

HF/V/UHF
Mobile
Whip
Antenna

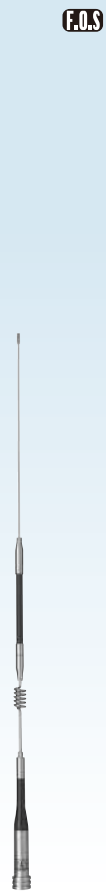
SUPER GAINER mini



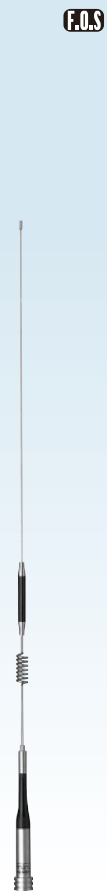
SG-M504



SG-M505



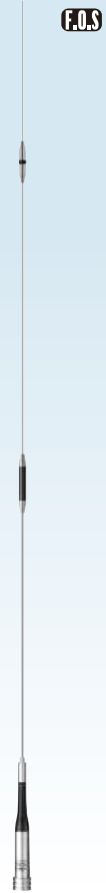
SG-M506R



SG-M507



SG-M510



SG-M911

Model	Frequency	Gain	Max. power rating	Length	Weight	Connector	Type
SUPER GAINER HF/V/UHF Mobile Whip Antenna							
SG2000	144MHz(2m)	5.2dB	150W	1.59m	400g	MP	7/8λ double C-Load radialless
SG7000	144/430MHz (2m/70cm)	2.15dBi(144MHz), 3.8dB(430MHz)	100W(Total)	0.47m	280g	MP	1/4λ C-Load(144MHz), 6/8λ C-Load radialless(430MHz)
SG7100R	144/430MHz (2m/70cm)	2.15dBi(144MHz), 4.8dBi(430MHz)	60W(Total)	0.62m	300g	MP	1/2λ radialless(144MHz), 2x5/8λ radialless(430MHz)
SG7200	144/430MHz(2m/70cm) (300MHz receiving only)	3.2dB(144MHz), 5.7dB(430MHz)	150W(Total)	0.96m	335g	MP	1/2λ C-Load radialless(144MHz), 2x5/8λ C-Load radialless(430MHz)
SG7400	144/430MHz(2m/70cm) (300MHz receiving only)	2.15dBi(144MHz), 5.5dBi(430MHz)	150W(Total)	0.99m	305g	MP	1/2λ radialless(144MHz), 2x5/8λ radialless(430MHz)
SG7500	144/430MHz(2m/70cm) (300MHz receiving only)	3.5dB(144MHz), 6.0dB(430MHz)	150W(Total)	1.06m	330g	MP	1/2λ C-Load radialless(144MHz), 2x5/8λ radialless(430MHz)
SG7700	144/430MHz (2m/70cm)	4.3dB(144MHz), 6.8dB(430MHz)	150W(Total)	1.27m	350g	MP	5/8λ double C-Load radialless(144MHz), 2x5/8λ C-Load radialless(430MHz)
SG7900	144/430MHz (2m/70cm)	5.0dB(144MHz), 7.6dB(430MHz)	150W(Total)	1.58m	600g	MP	7/8λ double C-Load radialless(144MHz), 3x5/8λ C-Load radialless(430MHz)
SG9500M SG9500N	144/430/1200MHz (2m/70cm/23cm)	3.15dB(144MHz), 6.3dB (430MHz), 9.7dB(1200MHz)	100W(144/430MHz),50W (1200MHz),100W(Total)	1.00m	320g	MP/NP	1/2λ C-Load radialless(144MHz), 2x5/8λ C-Load radialless(430MHz), 5x5/8λ C-Load radialless(1200MHz)
SG9600	50/144/430MHz (6m/2m/70cm)	2.15dBi(144MHz), 5.2dBi(430MHz)	60W(Total)	0.82m	320g	MP	1/4λ(51 to 52MHz FM), 1/2λ radialless(144MHz), 2x5/8λ radialless(430MHz)
SG9700	50/144/430MHz (6m/2m/70cm)	3.0dBi(144MHz), 5.8dBi(430MHz)	100W(Total)	1.07m	340g	MP	1/4λ(51 to 52MHz FM), 1/2λ C-Load radialless(144MHz), 2x5/8λ C-Load radialless(430MHz)
SUPER GAINER mini HF/V/UHF Mobile Whip Antenna							
SG-M504	144/430MHz (2m/70cm)	2.15dBi(430MHz)	100W(Total)	0.40m	160g	MP	1/4λ(144MHz), 1/2λ radialless(430MHz)
SG-M505	144/430MHz (2m/70cm)	2.15dBi(144MHz), 3.8dB(430MHz)	100W(Total)	0.53m	137g	MP	1/4λ(144MHz), 6/8λ C-Load radialless(430MHz)
SG-M506R	144/430MHz (2m/70cm)	2.15dBi(144MHz), 4.8dBi(430MHz)	60W(Total)	0.63m	165g	MP	1/2λ radialless(144MHz), 2x5/8λ radialless(430MHz)
SG-M507	144/430MHz (2m/70cm)	2.15dBi(144MHz), 5.2dBi(430MHz)	70W	0.73m	155g	MP	1/2λ radialless(144MHz), 2x5/8λ radialless(430MHz)
SG-M510	144/430MHz (2m/70cm)	2.15dBi(144MHz), 5.5dBi(430MHz)	100W(Total)	0.96m	130g	MP	1/2λ radialless(144MHz), 2x5/8λ radialless(430MHz)
SG-M911	50/144/430MHz (6m/2m/70cm)	3.0dBi(144MHz), 5.8dBi(430MHz)	60W	1.10m	160g	MP	1/4λ(51 to 52MHz FM), 1/2λ C-Load radialless(144MHz), 2x5/8λ C-Load radialless(430MHz)

* Impedance : 50Ω, VSWR : Less than 1.5

HF/V/UHF
Mobile
Whip
Antenna

SLIM GAINER



AZ504FX



AZ506FXH



AZ506FX



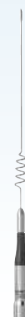
AZ507FXH



AZ507FX



AZ510FX



AZ503



AZ504



AZ505
AZ505N



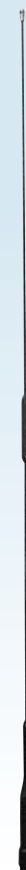
AZ506



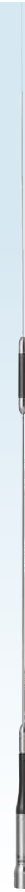
AZ507R



AZ510
AZ510N



AZ510FMH



AZ910

Amateur radio antennas

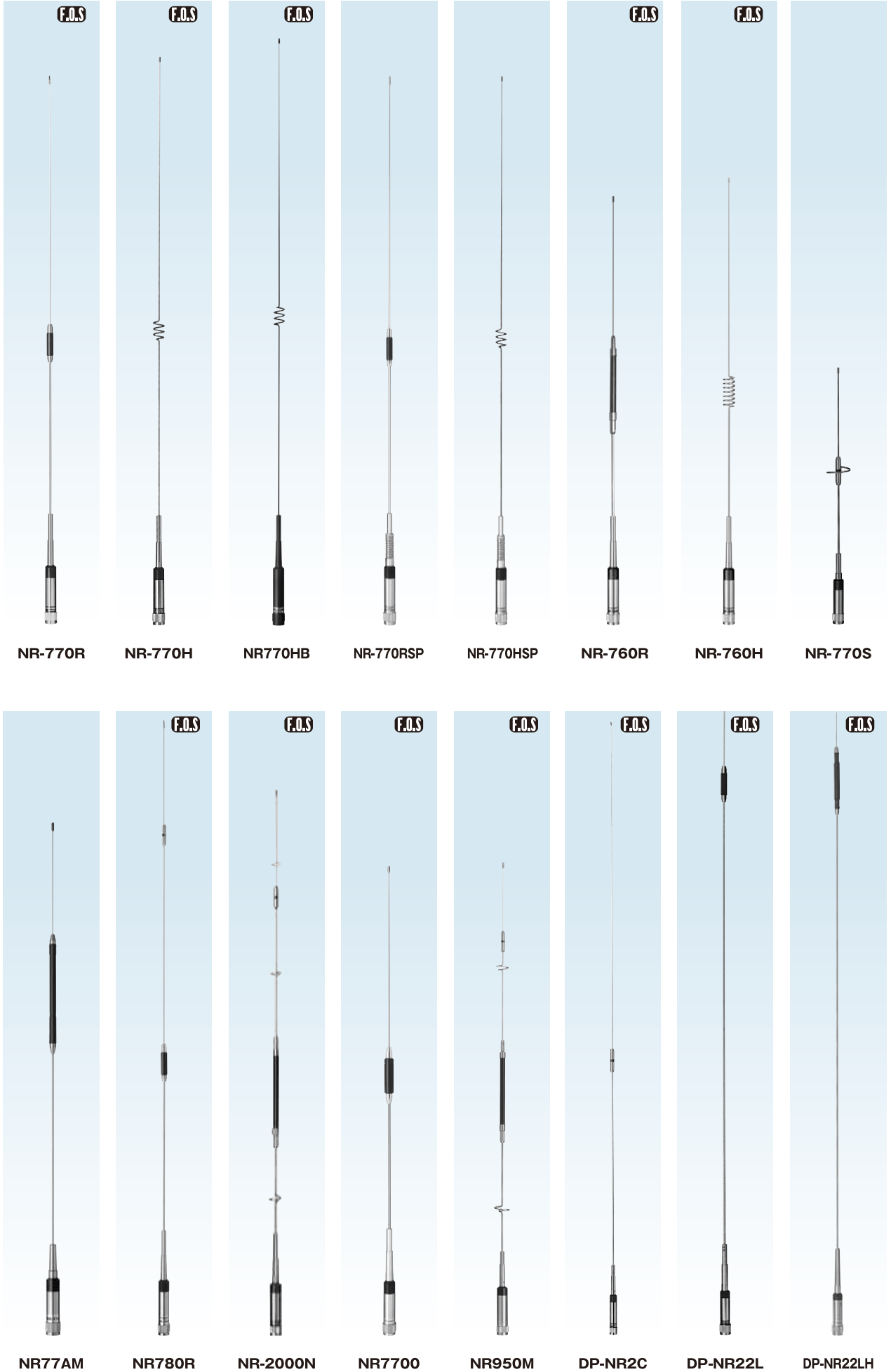


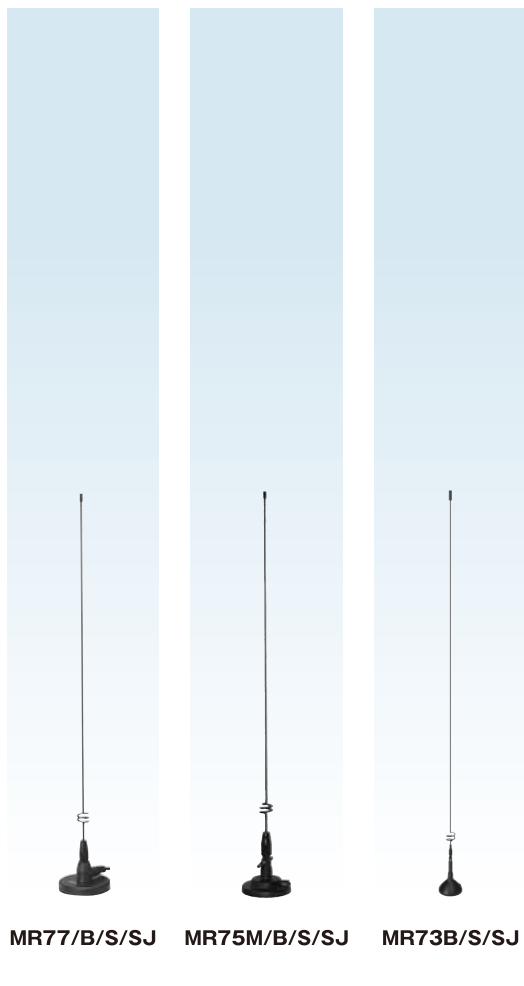
Model	Frequency	Gain	Max. power rating	Length	Weight	Connector	Type
SLIM GAINER HF/V/UHF Mobile Whip Antenna							
AZ504FX	144/430MHz(2m/70cm)	2.15dBi(430MHz)	50W FM (Total)	0.39m	70g	MP	1/4λ(144MHz),1/2λ radialless(430MHz)
AZ506FXH	144/430MHz(2m/70cm)	2.15dBi(144MHz),4.5dBi(430MHz)	50W FM (Total)	0.66m	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

V/UHF
Mobile
Whip
Antenna

NR

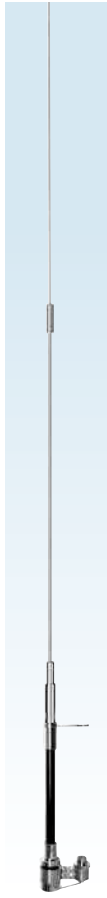




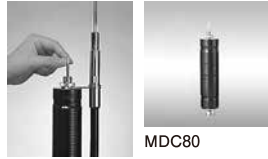
Model	Frequency	Gain	Max. power rating	Length	Weight	Connector	Type
NR V/UHF Mobile Whip Antenna							
NR-770R	144/430MHz(2m/70cm)	2.15dBi(144MHz), 5.5dBi(430MHz)	200W(Total)	0.98m	210g	MP	1/2λ radialless(144MHz), 2x5/8λ radialless(430MHz)
NR-770H	144/430MHz(2m/70cm)	2.15dBi(144MHz), 5.5dBi(430MHz)	200W(Total)	1.02m	250g	MP	1/2λ radialless(144MHz), 2x5/8λ radialless(430MHz)
NR770HB	144/430MHz(2m/70cm)	2.15dBi(144MHz), 5.5dBi(430MHz)	200W FM (Total)	1.02m	250g	MP	1/2 λradialless (144MHz),2x5/8 λ radialless(430MHz)
NR-770RSP	144/430MHz(2m/70cm)	2.15dBi(144MHz), 5.5dBi(430MHz)	200W(Total)	0.97m	240g	MP	1/2λ radialless(144MHz), 2x5/8λ radialless(430MHz)
NR-770HSP	144/430MHz(2m/70cm)	2.15dBi(144MHz), 5.5dBi(430MHz)	200W(Total)	1.00m	230g	MP	1/2λ radialless(144MHz), 2x5/8λ radialless(430MHz)
NR760R	144/430MHz(2m/70cm)	2.15dBi(144MHz), 5.2dBi(430MHz)	100W(144MHz),60W(430MHz)	0.77m	220g	MP	1/2λ radialless(144MHz), 2x5/8λ radialless(430MHz)
NR-760H	144/430MHz(2m/70cm)	2.15dBi(144MHz),5.2dBi(430MHz)	150W(Total)	0.80m	200g	MP	1/2λ radialless(144MHz), 2x5/8λ radialless(430MHz)
NR-770S	144/430MHz(2m/70cm)	2.15dBi(144/430MHz)	100W(Total)	0.43m	150g	MP	1/4λ(144MHz), 1/2λ radialless(430MHz)
NR77AM	144/430MHz(2m/70cm)	2.15dBi(430MHz)	100W	0.67m	140g	MP	1/4 λ (144MHz), 1/2 λ radialless (430MHz)
NR780R	144/430MHz(2m/70cm)	3.4dBi(144MHz), 6.0dBi(430MHz)	150W	1.1m	240g	MP	1/2 λC-Load radialless (144MHz), 2x5/8 λ C-Load radialless (430MHz)
NR2000N	144/430/1200MHz (2m/70cm/23cm)	3.15dBi(144MHz),6.3dBi(430MHz), 9.7dBi(1200MHz)	100W(144/430MHz), 50W(1200MHz),100W(Total)	0.99m	300g	NP	C-Load radialless(144MHz)2x5/8λ C-Load radialless(430MHz) 5x5/8λ C-Load radialless(1200MHz)
NR7700	144/430MHz(2m/70cm) (300MHz receiving only)	3.0dBi(144MHz), 5.5dBi(430MHz)	250W(144MHz),200W(430MHz)	1.00m	430g	MP	1/2λ radialless(144MHz), 2x5/8λ radialless(430MHz)
NR950M	144/430/900MHz(2m/70cm/33cm) 150/300/450/800MHz receiving only	3.15dBi(144MHz), 6.3dBi(430MHz), 8.7dBi(900MHz)	200W(144MHz), 120W(430MHz), 50W(900MHz)	0.99m	260g	MP	1/2 λ C-Load radialless(144MHz), 2x5/8λ C-Load radialless(430MHz), 4x5/8λ C-Load radialless(900MHz)
DP-NR2C	144MHz(2m)	4.1dB	150W	1.41m	200g	MP	6/8 λ C-Load radialless
DP-NR22L	144MHz(2m)	6.5dB	100W	2.46m	500g	MP	2x5/8λ radialless
DP-NR22LH	144MHz(2m)	6.5dB	280W	2.46m	520g	MP	2x5/8λ radialless
V/UHF Magnet Antenna							
MR77/B/S/SJ	144/430MHz(2m/70cm)	3.4dBi (430MHz)	70W	0.5m	400g	MP/BNC-P/ SMA-P/SMA-J	1/4λ(144MHz),5/8λ(430MHz) /with RG58/U 4m
MR75M/B/S/SJ	144/430MHz(2m/70cm)	3.4dBi (430MHz)	35W	0.5m	130g	MP/BNC-P/ SMA-P/SMA-J	1/4λ(144MHz),5/8λ(430MHz) /with LMR100 3m
MR73B/S/SJ	144/430MHz(2m/70cm)	3.4dBi (430MHz)	10W	0.5m	80g	BNC-P/SMA-P/SMA-J	1/4λ(144MHz),5/8λ(430MHz) /with RG-174/U 3m
V/UHF Magnet Antenna							
MF750	144/430MHz(2m/70cm)	3.0dBi(144MHz), 6.0dBi (430MHz)	60W FM (Total)	1.18m	185g	MP	1/2λ radialless (144MHz), 2 x 5/8 λradialless (430MHz)

*Impedance:50Ω, VSWR:Less than 1.5

HF Mobile Whip Antenna



MD200



MDC80

MDC80 (3.5MHz/80m)
MD200(antenna body)
 ※Max.power rating:120W(SSB)



(From left)
 MDC40HX,
 MDC15HX,
 MDC20HX,
 MDC10HX

MDC40HX (7MHz/40m)
 ※ Max power rating 200W (SSB)
MDC20HX (14MHz/20m)
 ※ Max power rating 300W (SSB)
MDC15HX (21MHz/15m)
 ※ Max power rating 300W (SSB)
MDC10HX (28MHz/10m)
 ※ Max power rating
 300W (SSB) 100W (29MHz)



MDC730HX (7to30MHz)
 ※Max power rating
 200W(SSB), 70W(FM,CW)

MD200
 Length:2.00m
 Weight:640g
 Connector:MP

The replacement coil has to be used with MD200. It cannot be used by itself.

HF Mobile Screwdriver Antenna



SDC1

Frequency: 3.5/7/10/14/18/21/24/28(29)/50MHz
 Band
 Operation time:
 ●3.5MHz→HOM→3.5MHz approx. 160 sec.
 ●7MHz→HOM→7MHz approx. 50 sec.
 ●14MHz→HOM→14MHz approx. 20 sec.
 ※HOM -Operation standard position (Lowest position of the coil)
 Power supply voltage & current: DC12V (9-14.5V) 200mA
 Dimensions: 85(W)x 120(D)x 32(H)mm
 Weight: 380g



OPE750

Frequency:7-50MHz
 Element length:770mm

SD330

Frequency: 3.5-30MHz
 Max. power rating: 200W (SSB)
 Impedance: 50Ω
 VSWR: Less than 2.0
 Connector: MP
 Length: 1.85m Weight: 1.1kg
 Type: 1/4 λ center loading
 Power supply voltage & current: DC12V / 100mA
 Up-down time:
 approx. 50 seconds (3.5 to 30MHz)
 approx. 20 seconds (7 to 30MHz)

Magnet Antenna Grounding Sheet

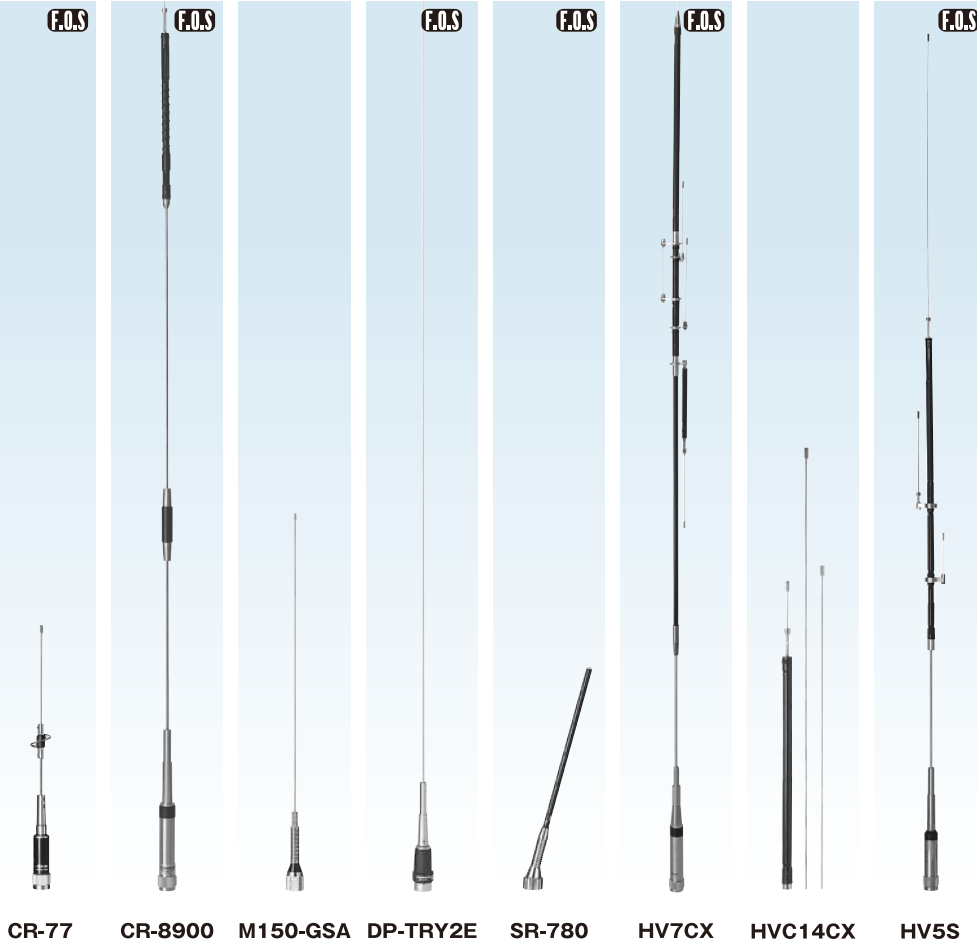


MAT 50

MAGNET ANTENNA GROUNDING SHEET

Frequency:7-50MHz
 (3.5MHz BY USING TWO SHEETS)
 Max power rating:
 500W(SSB)
 200W(FM/CM)
 Ambient temperature:
 -20C to +90C
 Adhesive performance:
 110km/h (with no wind)
 Dimensions:
 80mm x 195mm
 (sheet size)
 Cable length:
 approx. 30cm
 Weight:55g
 Accessory:
 16mm lug,
 heat shrink tubing

HF/V/UHF Mobile Whip Antenna



CR-77

CR-8900

M150-GSA

DP-TRY2E

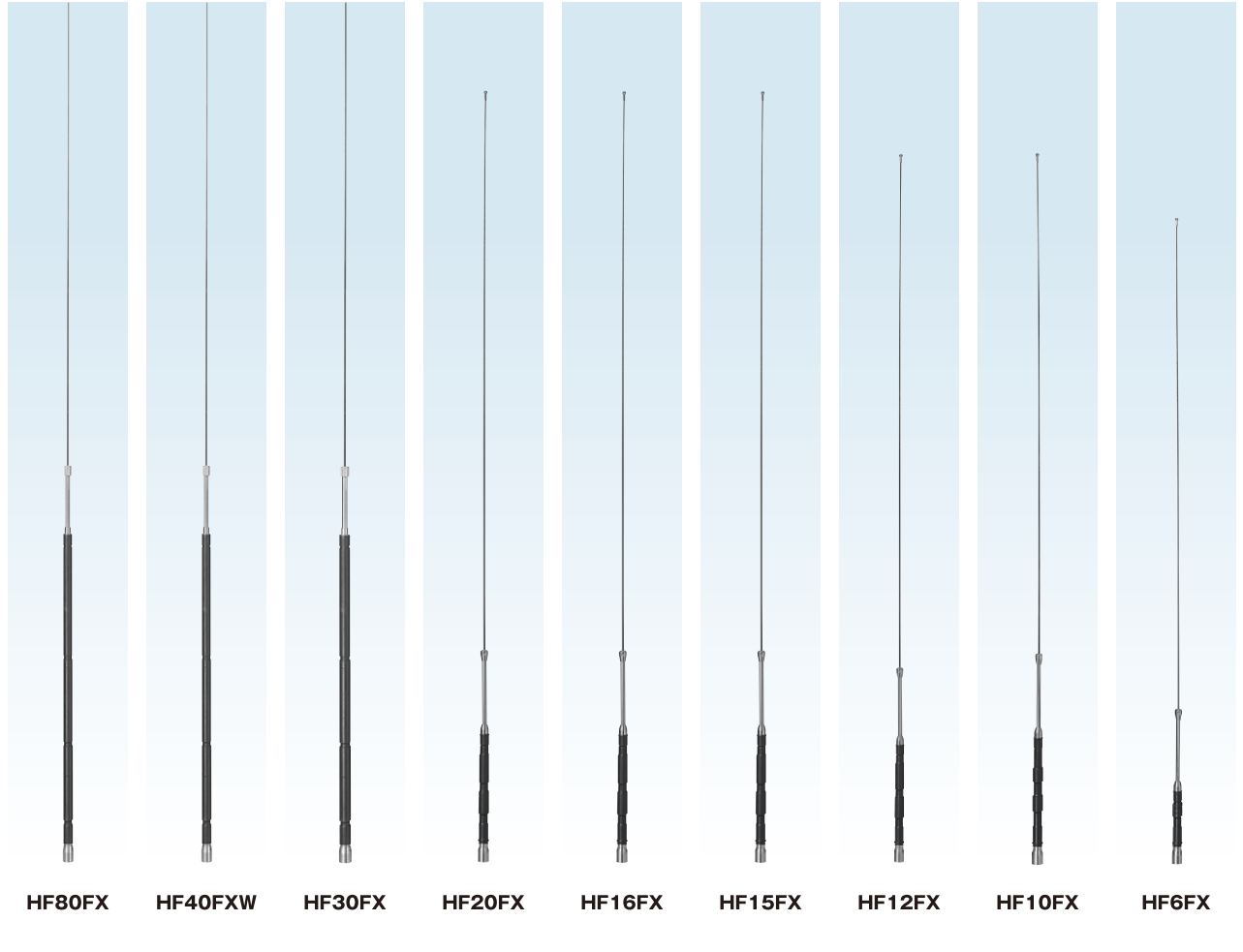
SR-780

HV7CX

HVC14CX

HV5S

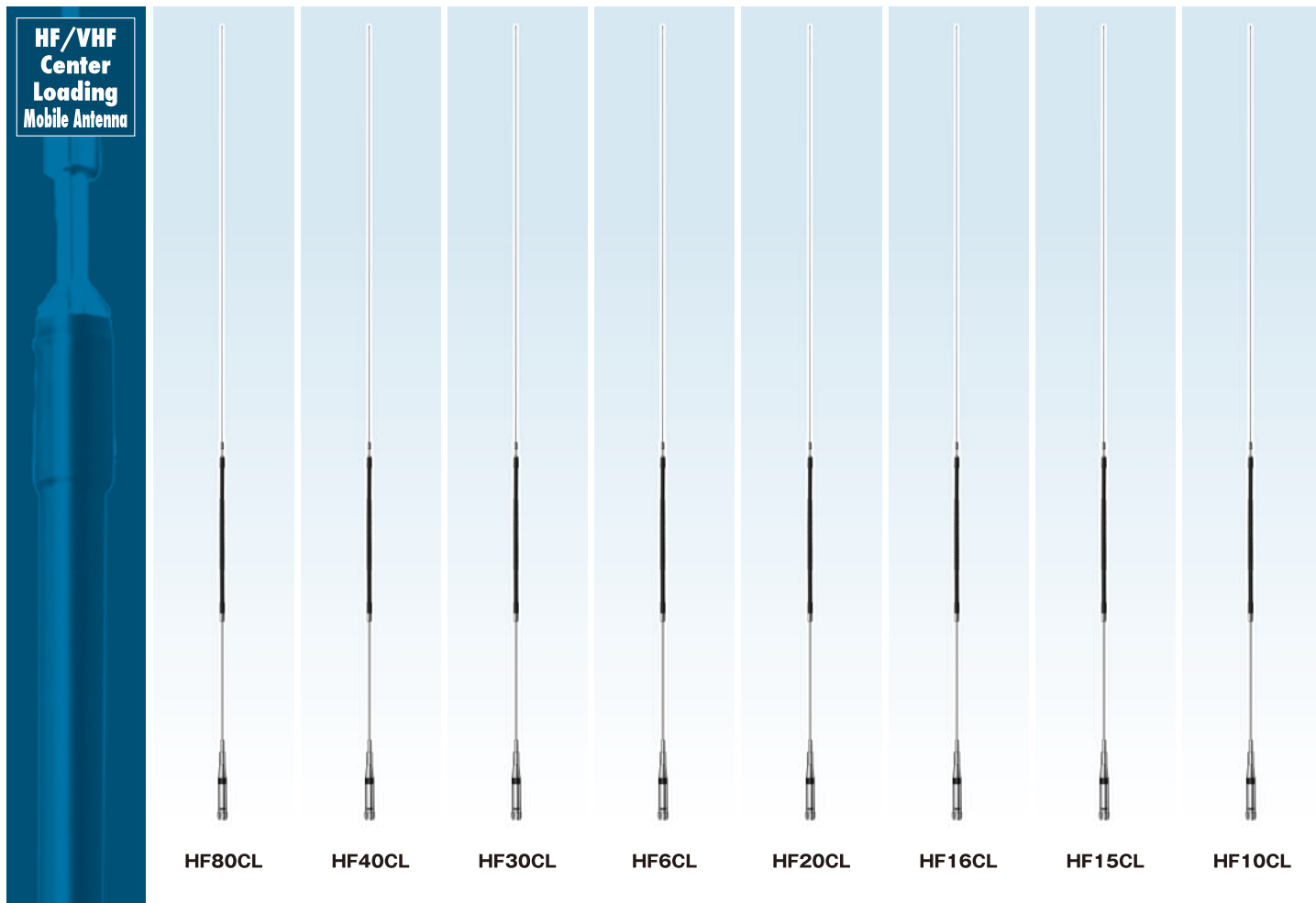
Amateur radio antennas



Model	Frequency	Gain	Max. power rating	Length	Weight	Connector	Type
HF & V/UHF Mobile Whip Antenna							
CR-77	144/430MHz(2m/70cm)	2.15dBi(144/430MHz)	100W(Total)	0.29m	90g	MP	1/4λ(144MHz), 1/2λ(430MHz)
CR-8900	29(FM)/50(FM)/144/430MHz (10m/6m/2m/70cm)	2.15dBi(144MHz), 5.5dBi(430MHz)	60W/FM(Total)	1.26m	490g	MP	1/4λ(29/50MHz), 1/2λ radialless(144MHz), 2 x 5/8λ(430MHz)
M150-GSA	144MHz(2m)	—	200W	0.51m	110g	MP	1/4λ
DP-TRY2E	144MHz(2m)	3.4dB	200W	1.32m	200g	MP	5/8λ, 1/4λ(50MHz)
SR-780	144/430MHz(2m/70cm)	2.15dBi(144MHz), 3.4dB(430MHz)	50W	0.44m	330g	MP	1/4λ(144MHz), 5/8λ(430MHz) for trunk lid base use
HV7CX	★1	2.15dBi(144MHz), 5.5dBi(430MHz)	120W SSB(7~28MHz), 200W SSB(50~430MHz)	1.9m	660g(with 7MHz loading coil)	MP	1/4λ(7~50MHz), 1/2λ(144MHz), 2x5/8λ(430MHz)
HVC14CX	10/14MHz(30m/20m)	—	120W (SSB)	—	—	—	Optional element for HV7CX
HV5S	7/21/50/144/430MHz (40m/15m/6m/2m/70cm)	3.2dBi (430MHz)	120W SSB(7/21/50MHz), 200W SSB(144/430MHz)	1.42m	470g	MP	1/4λ(7/21/50/144MHz), 5/8λ(430MHz)
HF/VHF Mobile Whip Antenna							
HF80FX	3.5MHz(80m)	—	120W(SSB)	1.4m	220g	MP	1/4λ base loading
HF40FXW	7MHz(40m)	—	200W(SSB)	1.4m	270g	MP	1/4λ base loading
HF30FX	10MHz(30m)	—	220W(PEP)	1.4m	240g	MP	1/4λ base loading
HF20FX	14MHz(20m)	—	220W(SSB)	1.2m	210g	MP	1/4λ base loading
HF16FX	18MHz(16m)	—	220W(SSB)	1.2m	190g	MP	1/4λ base loading
HF15FX	21MHz(15m)	—	220W(SSB)	1.2m	160g	MP	1/4λ base loading
HF12FX	24MHz(13m)	—	220W(SSB)	1.1m	150g	MP	1/4λ base loading
HF10FX	28MHz(10m)	—	250W(SSB)	1.1m	180g	MP	1/4λ base loading
HF6FX	50MHz(6m)	—	250W(SSB)	1.0m	130g	MP	1/4λ base loading

★1 = 7/(10/14)/21/(18/24)/28/50/144/430MHz(40m/(30m/20m)/15m/(17m/13m)/10m/6m/2m/70cm) 10/14MHz(30m/20m) and 18/24MHz(17m/13m) are with optional loading coils
 * Impedance : 50Ω, VSWR : Less than 1.5

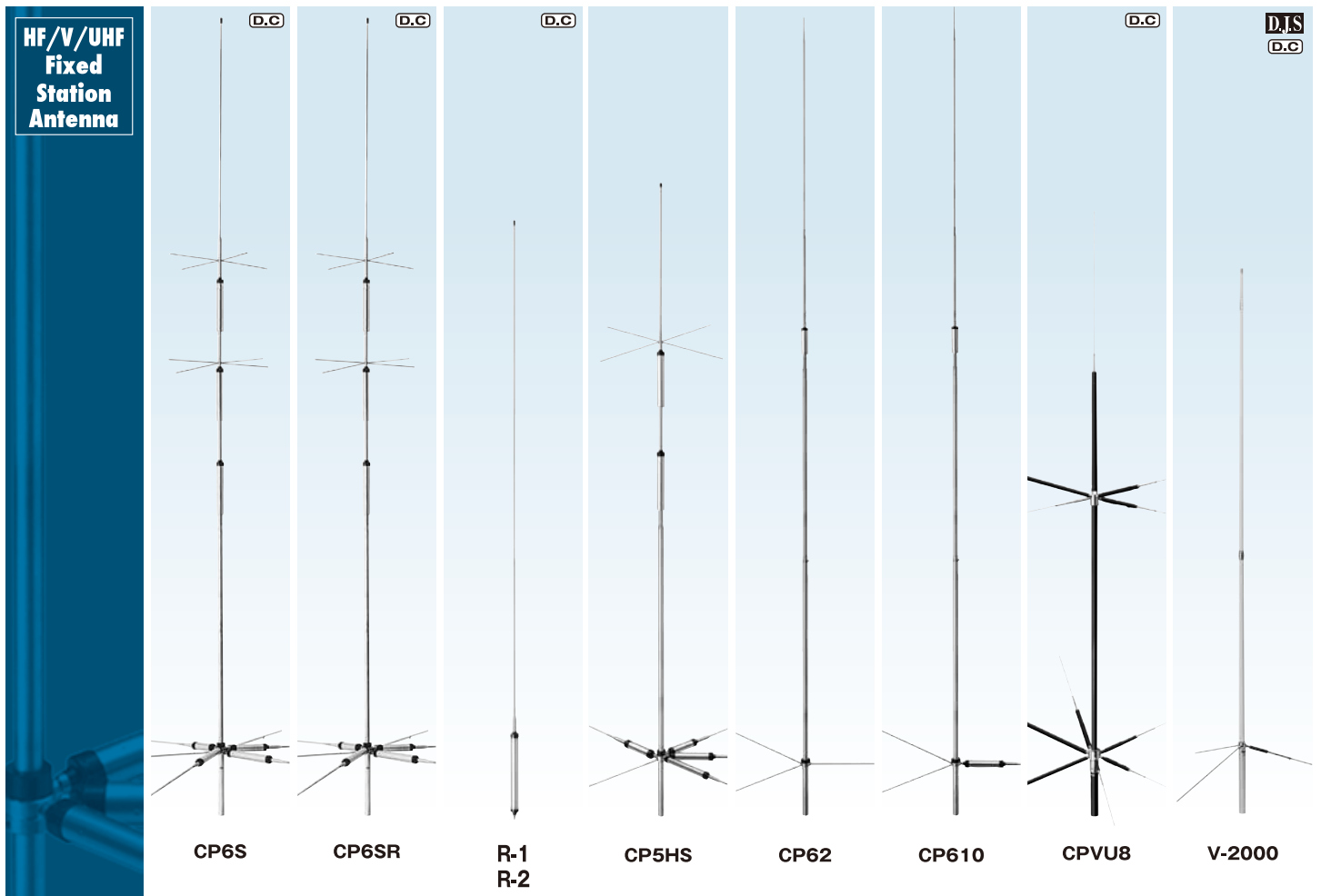
Amateur radio antennas



Model	Frequency	Gain	Max.power rating	Length	Weight	Connector	Type
HF/VHF Center Loading Mobile Antenna							
HF80CL	3.5MHz (80m)	-	120W(SSB), 40W(FM)	2.22m	590g	MP	1/4 wave center loading
HF40CL	7MHz (40m)	-	200W(SSB), 70W(FM)	2.2m	590g	MP	1/4 wave center loading
HF30CL	10MHz(30m)	-	200W(SSB), 70W(CW)	2.2m	590g	MP	1/4λ center loading
HF6CL	50MHz (6m)	2.15dBi	250W(SSB), 80W(FM)	2.2m	550g	MP	1/2 wave radialless center loading
HF20CL	14MHz (20m)	-	200W(SSB), 70W(FM)	2.2m	560g	MP	1/4 wave center loading
HF16CL	18MHz (16m)	-	200W(SSB), 70W(FM)	2.2m	555g	MP	1/4 wave center loading
HF15CL	21MHz (15m)	-	200W(SSB), 70W(FM)	2.2m	550g	MP	1/4 wave center loading
HF10CL	28MHz (10m)	-	200W(SSB), 70W(FM)	2.2m	550g	MP	1/4 wave center loading

* Impedance : 50Ω, VSWR : Less than 1.5

Amateur radio antennas

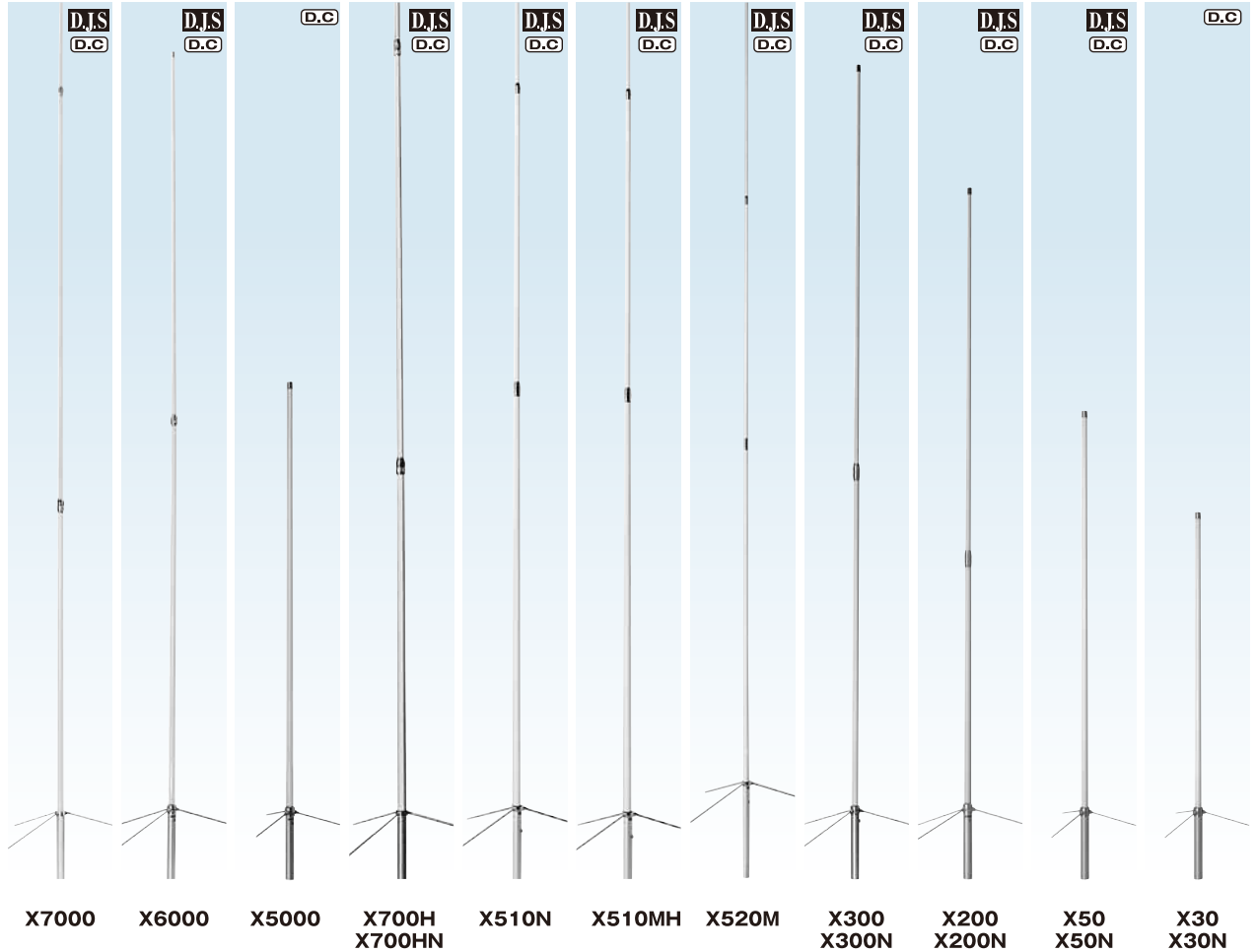


Model	Frequency	Gain	Max. power rating	Length	Radial Length	Weight	Rated wind velocity	Mast diameter accepted	Connector	Type
HF/V/UHF Fixed Station Antenna										
CP6S	3.5/7/14/21/28/50MHz*1) (80m/40m/20m/15m/10m/6m)	—	200W(SSB)	4.6m	approx. 1.8m	4.9kg	40m/sec.	φ30-62	MJ	6 band trap vertical antenna 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

Amateur radio antennas

V/UHF Fixed Station Antenna



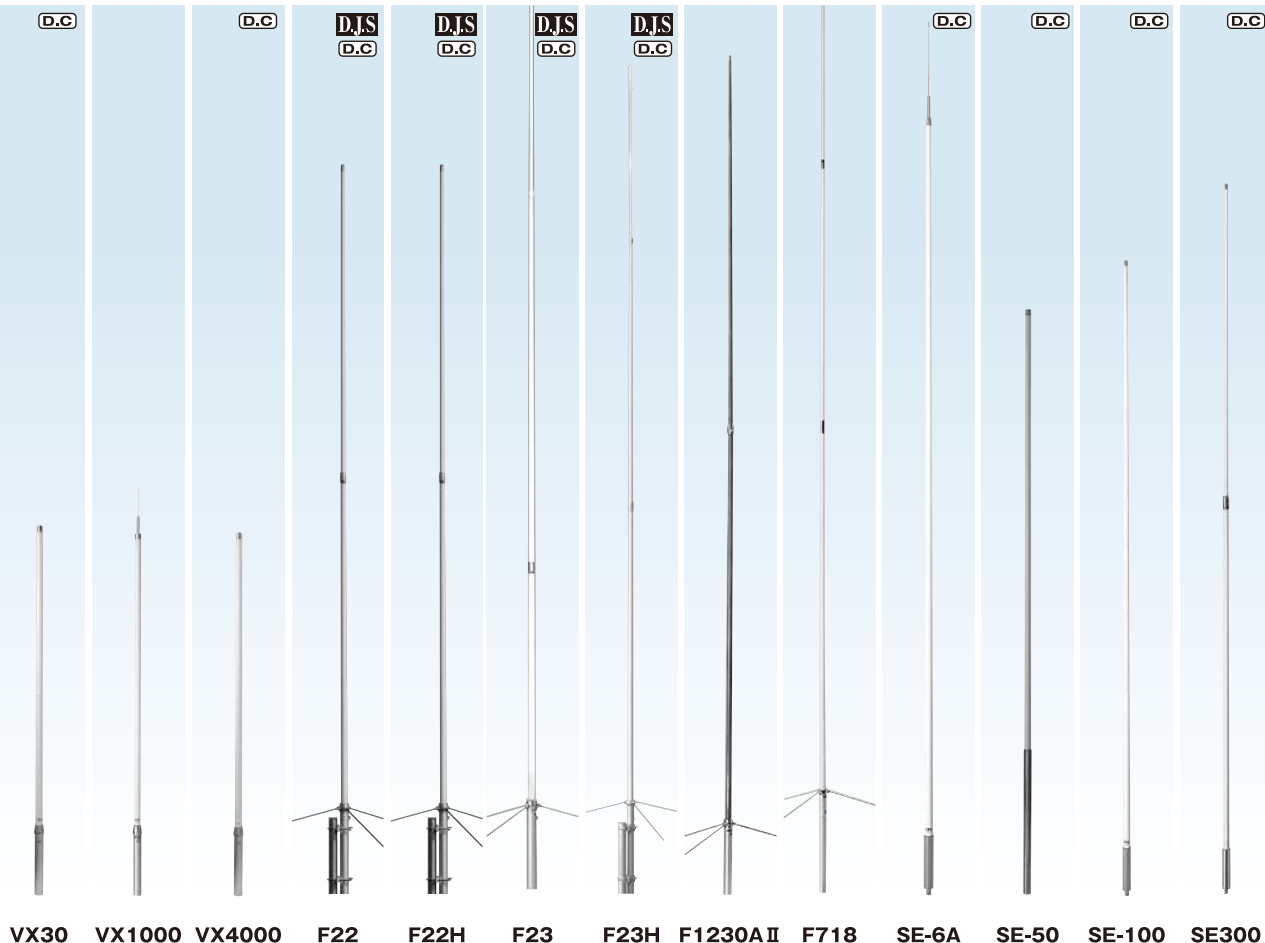
Model	Frequency	Gain	Max. power rating	Length	Radial length	Weight	Rated wind velocity	Mast diameter accepted	Connector	Type
V/UHF Fixed Station Antenna										
X7000	144/430/1200MHz (2m/70cm/23cm)	8.3dB(144MHz), 11.7dB (430MHz), 13.7dB(1200MHz)	100W(144/430MHz), 60W(1200MHz), 100W(Total)	5.0m	approx. 52cm	2.2kg	40m/sec.	φ 30-62	NJ	3 x 5/8λ C-Load(144MHz), 8 x 5/8λ C-Load(430MHz), 14 x 5/8λ C-Load(1200MHz), FRP outershell
X6000	144/430/1200MHz (2m/70cm/23cm)	6.5dB(144MHz), 9.0dB (430MHz), 10.0dB(1200MHz)	100W(144/430MHz), 60W(1200MHz), 100W(Total)	3.05m	approx. 52cm	1.8kg	50m/sec.	φ 30-62	NJ	2 x 5/8λ C-Load(144MHz), 5 x 5/8λ C-Load(430MHz), 6 x 5/8λ C-Load(1200MHz), FRP outershell
X5000	144/430/1200MHz (2m/70cm/23cm)	4.5dB(144MHz), 8.3dB (430MHz), 11.7dB(1200MHz)	100W(Total)	1.8m	approx. 19cm	0.9kg	60m/sec.	φ 30-62	NJ	6/8λ C-Load(144MHz), 3 x 5/8λ C-Load(430MHz), 7 x 5/8λ C-Load(1200MHz), FRP outershell
X700H X700HN	144/430MHz (2m/70cm)	9.3dB(144MHz), 13.0dB(430MHz)	200W(Total)	7.2m	approx. 52cm	3.8kg	40m/sec.	φ ★30-62	MJ/NJ	4 x 5/8λ C-Load(144MHz), 11 x 5/8λ C-Load(430MHz), FRP outershell
X510N	144/430MHz (2m/70cm)	8.3dB(144MHz), 11.7dB(430MHz)	200W(Total)	5.2m	approx. 52cm	2.0kg	40m/sec.	φ 30-62	NJ	3 x 5/8λ C-Load(144MHz), 8 x 5/8λ C-Load(430MHz), FRP outershell
X510MH	144/430MHz (2m/70cm)	8.3dB(144MHz), 11.7dB (430MHz)	350W(Total)	5.2m	approx. 52cm	2.08Kg	40m/sec.	φ 30-60	MJ	3 x 5/8λ C-Load(144MHz), 8 x 5/8λ C-Load(430MHz), FRP outershell
X520M	144/430MHz (2m/70cm)	8.3dB (144MHz), 11.7dB (430MHz)	200W FM (Total)	5.2m	approx. 52cm	2.0kg	40m/sec.	φ 30-60	MJ	3x5/8λ C-Load(144MHz), 8x5/8λ C-Load (430MHz)
X300 X300N	144/430MHz (2m/70cm)	6.5dB(144MHz), 9.0dB(430MHz)	200W(Total)	3.1m	approx. 52cm	1.5kg	50m/sec.	φ 30-62	MJ	2 x 5/8λ C-Load(144MHz), 5 x 5/8λ C-Load(430MHz), FRP outershell
X200 X200N	144/430MHz (2m/70cm)	6.0dB(144MHz), 8.0dB(430MHz)	200W(Total)	2.5m	approx. 52cm	1.2kg	50m/sec.	φ 30-62	MJ/NJ	2 x 5/8λ(144MHz), 4 x 5/8λ(430MHz), FRP outershell
X50 X50N	144/430MHz (2m/70cm)	4.5dB(144MHz), 7.2dB(430MHz)	200W(Total)	1.7m	approx. 19cm	0.9kg	60m/sec.	φ 30-62	MJ/NJ	6/8λ C-Load(144MHz), 3 x 5/8λ C-Load(430MHz), FRP outershell
X30 X30N	144/430MHz (2m/70cm)	3.0dB(144MHz), 5.5dB(430MHz)	150W(Total)	1.3m	approx. 19cm	0.8Kg	60m/sec.	φ 30-62	MJ/NJ	1/2λ(144MHz), 2 x 5/8λ(430MHz), FRP outershell

★More than 45 φ diameter mast is recommended.

* Impedance : 50 Ω, VSWR : Less than 1.5

Amateur radio antennas

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

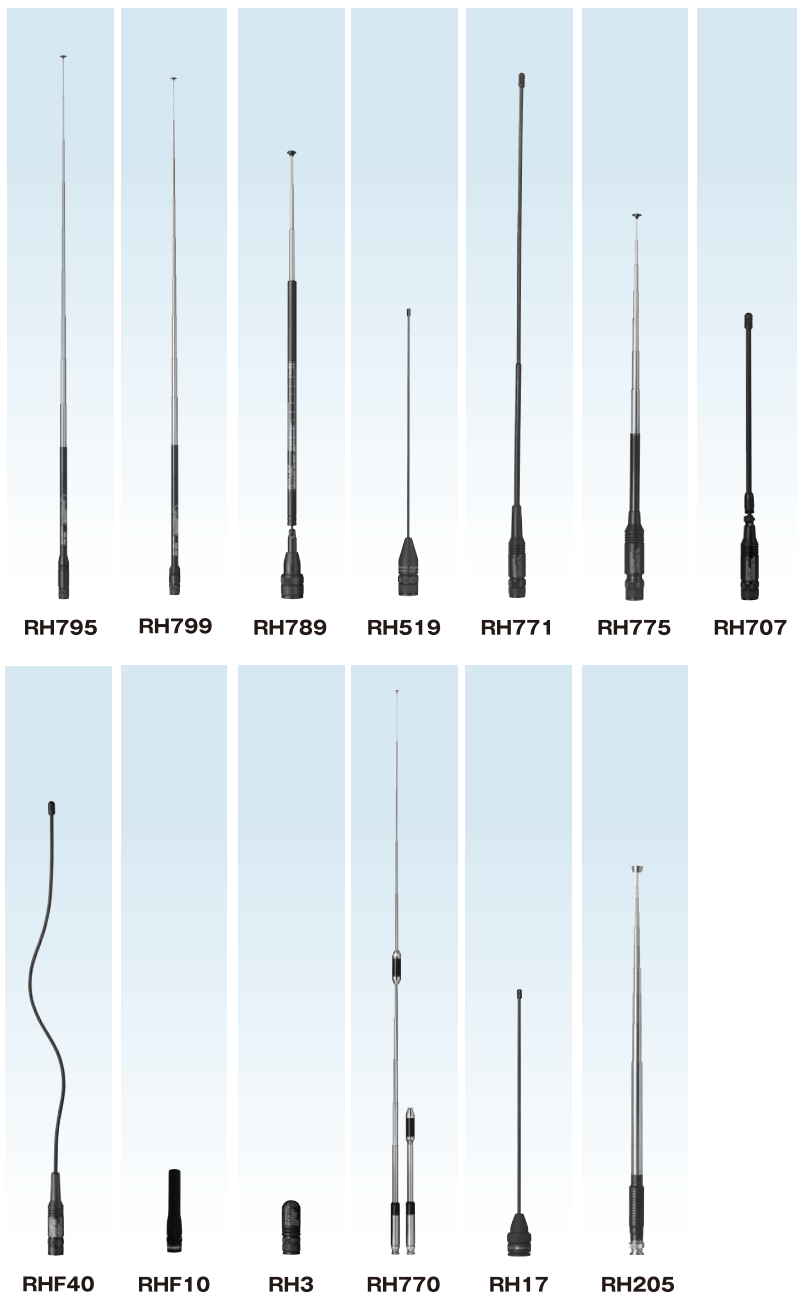


Model	Frequency	Gain	Max. power rating	Length	Radial length	Weight	Rated wind velocity	Mast diameter accepted	Connector	Type
HF/V/UHF Fixed Station Antenna										
VX30	144/430MHz (2m/70cm)	2.15dBi(144MHz), 5.5dBi(430MHz)	150W (Total)	1.3m	—	0.7kg	60m/sec.	φ30-62	MJ	1/2λ radialless(144MHz), 2 x 5/8 λ radialless (430MHz), FRP outershell
VX1000	50/144/430MHz (6m/2m/70cm)	1.5dBi(50MHz), 2.15dBi (144MHz), 5.5dBi(430MHz)	150W SSB(Total)	1.42m	—	0.8kg	60m/sec.	φ30-62	MJ	1/2λ(50.5-52MHz), 1/2λ radialless(144MHz), 2 x 5/8λ radialless(430MHz), FRP outershell
VX4000	144/430/1200MHz (2m/70cm/23cm)	2.6dBi(144MHz), 5.8dBi (430MHz), 9.2dBi(1200MHz)	100W (Total)	1.3m	—	0.7kg	60m/sec.	φ30-62	NJ	1/2λ C-Load radialless(144MHz), 2 x 5/8λ C-Load radialless (430MHz), 5 x 5/8λ C-Load radialless(1200MHz), FRP outershell
F22	144MHz(2m)	6.7dB	200W	3.2m	approx. 52cm	1.3kg	50m/sec.	φ30-62	MJ	omnidirectional 2x7/8λ, FRP outershell
F22H	144MHz(2m)	6.7dB	350W	3.2m	approx. 52cm	1.3kg	50m/sec.	φ30-62	MJ	omnidirectional 2x7/8λ, FRP outershell
F23	144MHz(2m)	7.8dB	200W	4.6m	approx. 52cm	1.7kg	50m/sec.	φ30-62	MJ	omnidirectional 3x5/8λ, FRP outershell
F23H	144MHz(2m)	7.8dB	350W	5.2m	approx. 50cm	2.0kg	40m/sec.	φ30-62	MJ	omnidirectional 3x5/8λ, FRP outershell
F1230AII	1200MHz(23cm)	13.5dBi	100W	3.06m	approx. 62cm	1.15kg	40m/sec.	φ30-62	NJ	1/2λ twenty-five-erement coaxial collinear antenna, FRP outershell
F718	430MHz (70cm)	11.5dBi	250W	4.6m	approx. 19cm	1.7kg	40m/sec.	φ30-60	NJ	18x1/2λ, FRP outershell
HF/V/UHF Marine Fixed Station Antenna										
SE6A	50MHz (6m)	2.15dBi	200W (SSB), 60W (FM)	2.5m	—	2.2kg	60m/sec.	φ25-100	MJ	1/2λradialless
SE50	144/430MHz (2m/70cm)	4.5dB(144MHz), 7.2dBi(430MHz)	100W	2.0m	—	0.8kg	60m/sec.	φ30-62	MJ	6/8λ radialless C-Load (144MHz), 3x5/8λ radialless C-Load (430MHz), FRP outershell
SE100	144/430MHz (2m/70cm)	6.0dBi(144MHz), 8.0dBi(430MHz)	150W FM(Total)	2.25m	—	1.5kg	50m/sec.	φ25-100	MJ	2x5/8λ radialless(144MHz), 4x5/8λ radialless(430MHz), FRP outershell
SE300	144/430MHz (2m/70cm)	6.5dBi(144MHz), 9.0dBi(430MHz)	150W FM	2.85m	—	1.4kg	50m/sec.	φ30-62	MJ	2x5/8λ radialless C-Load (144MHz), 5x5/8λ radiallessC-Load(430MHz)

*Impedance:50Ω, VSWR:Less than 1.5

Amateur radio antennas

HF/V/UHF Hand Held Antenna (BNCP)

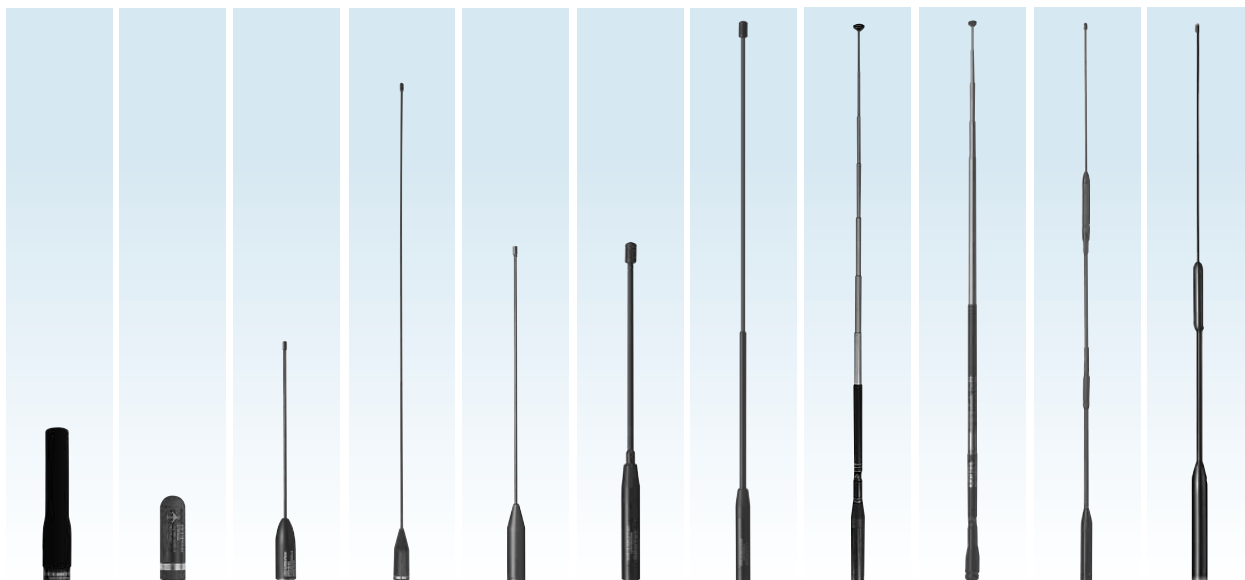


Model	Frequency	Gain	Max. power rating	Length	Weight	Connector	Type
HF/V/UHF Hand Held Antenna (BNCP)							
RH795	70 to 1000MHz Wide-band antenna	2.15dBi	10W	115cm(full length), 19.5cm(retracted)10 stages	65g	BNC-P	1/4λ(70 to 300MHz),telescopic whip antenna
RH799	70 to 1000MHz Wide-band antenna	2.15dBi	10W	113.5cm(full length), 19.5cm(retracted)10 stages	65g	BNC-P	1/4λ(70 to 300MHz), 180 degrees tilt angle adjustable, telescopic whip antenna
RH789	95MHz to 1100MHz	2.15dBi(95 to 300MHz), 3.2dBi(300 to 1100MHz)	10W	80.5cm(full length), 19.5cm(retracted) 6 stages	35g	BNC-P	1/4λ(95 to 300MHz), 5/8λ (300 to 1100MHz),AM/FM receiving (at full length), omnidirectionally foldable structure
RH519	144/430MHz(2m/70cm)	—	10W	20cm	15g	BNC-P	1/4λ, 120/150/300/450/800MHz for receiving only
RH771	144/430MHz(2m/70cm)	2.15dBi(430MHz)	10W	40cm	42g	BNC-P	1/4λ(144MHz),1/2λ radialless(430MHz), 120/150/300/450/800/900MHz for receiving only
RH775	144/430MHz(2m/70cm)	2.15dBi(430MHz)	10W	41cm(full length), 14cm(retracted) 8 stages	35g	BNC-P	1/4λ(144MHz),1/2λ radialless(430MHz), 120/150/300/450/800/900MHz for receiving only
RH707	144/430MHz(2m/70cm)	—	10W	21cm	35g	BNC-P	1/4λ(144/430MHz), 120/150/300/450/800/900MHz for receiving only, 180 degrees tilt angle adjustable
RHF40	144/430/1200MHz(2m/70cm/23cm)	—	10W	40.5cm	40g	BNC-P	1/4λ(144/430/1200MHz), 120/150/300/450/800/900MHz for receiving only
RHF10	144/430MHz(2m/70cm)	—	6W	0.75cm	20g	BNC-P	1/4λ, Air band/150/300/450/800/900MHz receiving only
RH3	144/430/1200MHz(2m/70cm/23cm)	—	10W	4.5cm	18g	BNC-P	1/4λ (144/430/1200MHz), 120/150/300/450/800/900MHz for receiving only
RH770	144/430MHz(2m/70cm)	3.0dB(144MHz), 5.5dB(430MHz)	20W	93cm (retracted 22.3cm) 10 stages	85g	BNC-P	1/2λ radialless(144MHz),2x5/8λ radialless(430MHz), 300MHz receiving only
RH17	430MHz(70cm)	2.15dBi	10W	17cm	12g	BNC-P	1/4λ, 300/450MHz for receiving
RH205	144MHz(2m)	—	—	134cm(full length), 23cm(retracted)10 stages	90g	BNC-P	5/8λ (full length),1/4λ (retracted),telescopic whip antenna

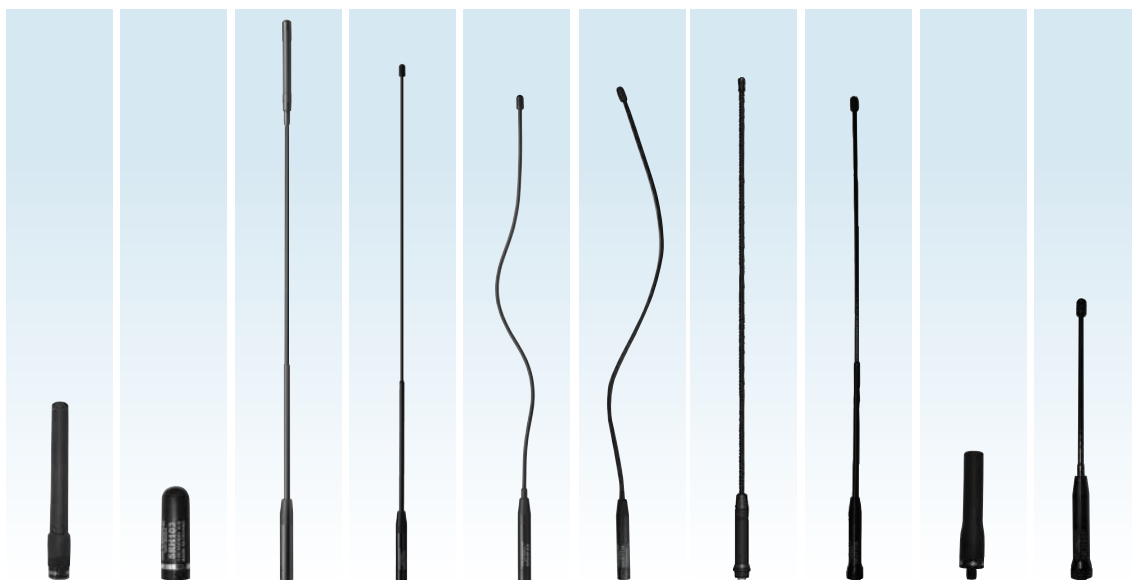
*Impedance:50Ω

Amateur radio antennas

**V/UHF
Hand Held
Antenna
(SMAP)(SMAJ)**



SRHF10 SRH805S SRH815S SRH36 SRH519 SRH701 SRH771 SRH779 SRH789 SRH999 SRH951S



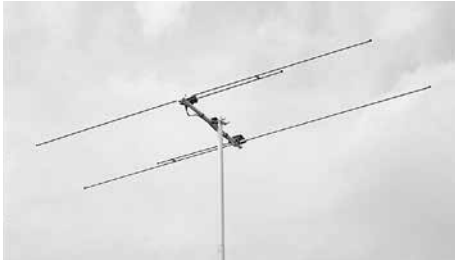
SRH920 SRH103 SRH940 SRH1230 SRHF40A SRHF1439 SRJF40A SRJ77CA SRJF10 SRJ701A

Model	Frequency	Gain	Max. power rating	Length	Weight	Connector	Type
V/UHF Hand Held Antenna (SMAP)							
SRHF10	144/430MHz (2m/70cm)	—	6W	7.5cm	20g	SMA-P	1/4λ, Air band/150/300/450/800/900MHz receiving only
SRH805S	144/430/1200MHz(2m/70cm/23cm)	—	10W	4.5cm	15g	SMA-P	1/4λ,120/150/300/450/800/900MHz for receiving only
SRH815S	144/430/1200MHz(2m/70cm/23cm)	2.15dBi(1200MHz)	6W	15cm	10g	SMA-P	1/4λ(144/430MHz), 1/2λ(1200MHz), 120/150/300/450/800/900MHz for receiving only
SRH36	144/430MHz(2m/70cm)	2.15dBi	10W	36cm	15g	SMA-P	1/4λ(144MHz), 1/2λ radialless(430MHz), 120/150/300/450/800MHz for receiving only, super flexible alloy element
SRH519	144/430MHz(2m/70cm)	—	10W	21cm	9g	SMA-P	1/4λ(144/430MHz), 120/150/300/450/800MHz for receiving only
SRH701	144/430MHz(2m/70cm)	—	10W	21cm	26g	SMA-P	1/4λ(144/430MHz),120/150/300/450/900MHz for receiving only
SRH771	144/430MHz(2m/70cm)	—	10W	40cm	38g	SMA-P	1/4λ(144/430MHz), 1/2λ (430MHz), 120/150/300/450/900MHz for receiving only
SRH779	144/430MHz(2m/70cm)	2.15dBi(430MHz)	10W	44cm(full length), 16cm(retracted) 8 stages	38g	SMA-P	1/4λ(144MHz), 1/2λ (430MHz), FM/120/150/300/450/800/900MHz for receiving only
SRH789	95MHz to 1100MHz	2.15dBi(430MHz)	10W	80.5cm(full length), 20cm(retracted) 6 stages	29g	SMA-P	1/4λ(95 to 300MHz), 5/8λ (300 to 1100MHz), AM/FM receiving(at full length)
SRH999	50/144/430/1200MHz(6m/2m/70cm/23cm)	2.15dBi(95 to 300MHz), 2.25dBi(300 to 1100MHz)	10W	50cm	55g	SMA-P	1/4λ(144/430MHz), 1/2λ (430MHz), FM/Air band/150/300/450/900MHz receiving only
SRH951S	144/430/1200MHz(2m/70cm/23cm)	2.15dBi (430MHz), 5.5dBi (1200MHz)	10W	35cm	33g	SMA-P	1/4λ(50/144MHz), 1/2λ(430MHz), 2x5/8λ(1200MHz), FM/Air band/150/300/450/900MHz receiving only
SRH920	50/144/430MHz(6m/2m/70cm)	2.15dBi	10W	45cm	44g	SMA-P	1/4λ 120/150/300/450/800/900MHz Receiving only
SRH103	120/300MHz receiving only	—	—	4.5cm	15g	SMA-P	1/4λ
SRH940	50/144/430MHz(6m/2m/70cm)	2.15dBi	10W	45cm	44g	SMA-P	1/4λ(50/144MHz), 1/2λ(430MHz), AM/FM/Air band/150/300/450/900MHz receiving only
SRH1230	120MHz/300MHz Air bands receiving only	2.15dBi(300MHz)	—	47cm	43g	SMA-P	1/4λ(120MHz), 1/2λ(300MHz)
SRHF40A	144/430MHz(2m/70cm)	2.15dBi(399MHz)	10W	40cm	40g	SMA-P	1/4λ(144MHz), 1/2λ radialless(430MHz), 120/150/300/450/900MHz receiving only
SRHF1439	139/399 receiving only	2.15dBi(430MHz)	—	40.5cm	40g	SMA-P	1/4λ(139MHz), 1/2λ(399MHz)
V/UHF Hand Held Antenna (SMAJ)							
SRJF40A	144/430MHz(2m/70cm)	2.15dBi(430MHz)	10W	40cm	40g	SMA-J	1/4λ(144MHz), 1/2λradialless (430MHz) 120/150/300/450/800/900MHz Receiving only
SRJ77CA	144/430MHz(2m/70cm)	—	10W	40.2cm	40g	SMA-J	1/4λ(144MHz), 1/2λradialless (430MHz) 120/150/300/450/800/900MHz Receiving only
SRJF10	144/430MHz(2m/70cm)	—	6W	7.2cm	18g	SMA-J	1/4λ 120/150/300/450/800/900MHz Receiving only
SRJ701A	144/430MHz(2m/70cm)	—	10W	19cm	26g	SMA-J	1/4λ(144/430MHz), Air band/150/300/450/800/900MHz receiving only

*Impedance:50Ω

Beam Antenna for The Radio Communications

50MHz Beam Antenna

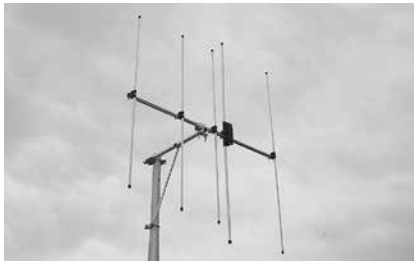


50MHz(6m)2-ELEMENTS PHASED DRIVE BEAM ANTENNA

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



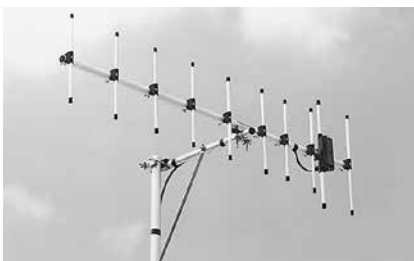
A144S5R (Single)
 Support boom element for single antenna (optional) is required for one antenna operation.



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

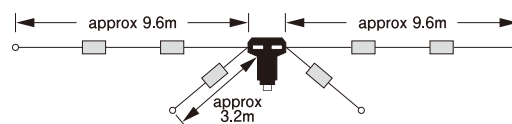
W-735

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

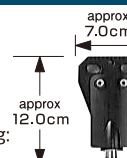


Balun



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

Discone Antenna

D130 / D130J / D130NJ

(25 to 1300MHz for receiving)
 (50/144/430/904/1200MHz for transmitting)
 Length:1.7m / Weight:1kg / Max. diameter:84cm
 Mast diameter accepted:25mm to 50mm
 Coaxial cable:RG58A/U approx,15m with M-connectors / N-connectors
 Max power rating 20W(50MHz) 200W(more than 140MHz)
 ※D130J / D130NJ without coaxial cable assembly.

D1300AM

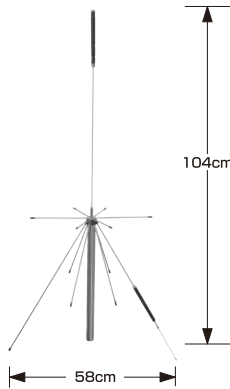
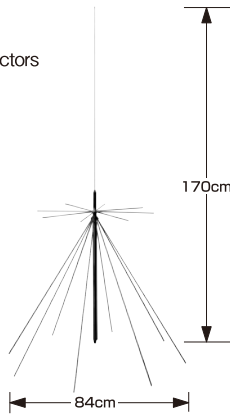
(25 to 1300MHz for receiving)
 (50/144/430/904/1200MHz for transmitting)
 Length:1.7m / Weight:1kg / Max. diameter:84cm
 Mast diameter accepted:25mm to 50mm
 Max Power Rating : 20W (50MHz) ,
 100W (more than 144MHz)

D3000N

(25 to 3000MHz for receiving)
 (50/144/430/904/1200MHz for transmitting)
 Length: 1.7m / Weight: 1kg / Max. diameter: 84cm
 Mast diameter accepted: 25mm to 50mm
 Max. power rating: 20W (50MHz), 200W (more than 144MHz)
 Connector: NJ

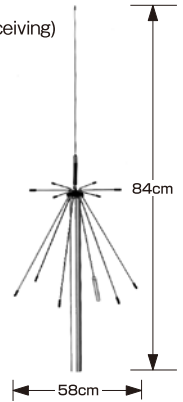
D150

(50 to 1500MHz for receiving)
 (50/144/430/904/1200MHz for transmitting)
 Length:1.04m / Weight:0.62kg / Max. diameter:0.58m
 Max. power rating:50W(FM)(30W FM at 50MHz band)
 Impedance:50Ω / Connector:M-J /
 Mast diameter accepted:25mm to 50mm
 Type:Wide band discone antenna
 Coaxial cable assembly
 (RG58/U 10m with M-P connectors at ends) is included.



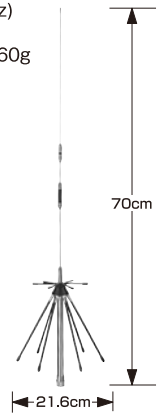
D190

Mobile Discone Antenna (100 to 1500MHz for receiving)
 (144/430/904/1200MHz for transmitting)
 Length:0.84m / Weight:0.52kg
 Max. diameter: approx.36cm
 Mast diameter accepted:25mm to 50mm
 Coaxial cable assembly
 (RG58/U 10m with M-P connectors)
 is included.
 Max power rating:50W(30W at 144MHz)

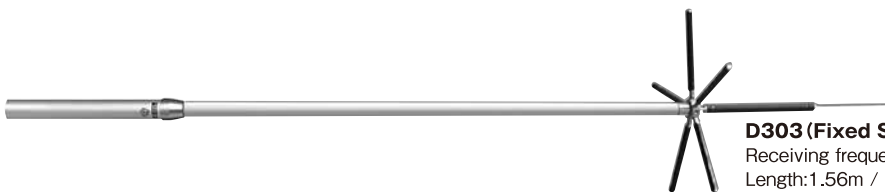


D220R

Mobile Discone Antenna (100 to 1600MHz for receiving)
 (144/430/904/1200MHz for transmitting)
 Gain:2.15dBi(144/904/1200MHz),3.4dBi(430MHz)
 Max. power rating:50W / Impedance:50Ω
 VSWR:Less than 1.5:1 / Length:0.70m / Weight:360g
 Max. diameter:21.6cm / Connector: M-P
 Type:1/2λ(144MHz),2x5/8λ(430MHz)

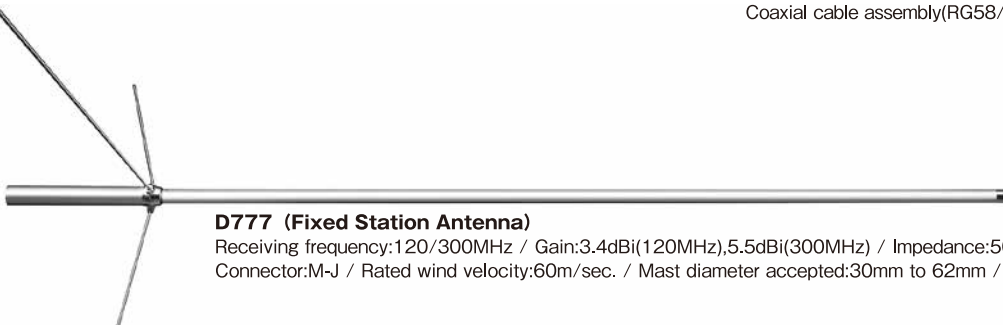


Receiving Antenna



D303 (Fixed Station Antenna)

Receiving frequency:0.5 to 200MHz wide band
 Length:1.56m / Weight:0.85kg / Impedance:50Ω / Connector:M-J
 Rated wind velocity:60m/sec. / Mast diameter accepted:30mm to 62mm
 Coaxial cable assembly(RG58/U 10m with M-P connector at both ends) is included.



D777 (Fixed Station Antenna)

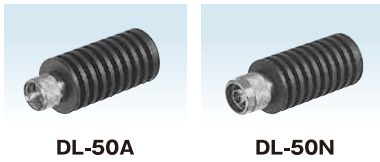
Receiving frequency:120/300MHz / Gain:3.4dBi(120MHz),5.5dBi(300MHz) / Impedance:50Ω / Length:approx.1.7m / Weight:1.0kg
 Connector:M-J / Rated wind velocity:60m/sec. / Mast diameter accepted:30mm to 62mm / Type:5/8 λ (120MHz),2x5/8 λ (300MHz)



D103 (Mobile Whip Antenna)

Receiving frequency:120/300MHz air bands / Gain:2.15dBi(120MHz),5.5dBi(300MHz) / Impedance:50Ω
 Length:approx.1.3m / Weight:225g / Connector:M-P / Type:1/2 λ (120MHz) 2x5/8 λ (300MHz)

Dummy Load Surge Protector Coaxial Switch



DL-50A

DL-50N

Model	Frequency range	Power rating	Impedance	VSWR	Input Connector	Dimensions
Dummy Load						
DL-50A	DC to 1000MHz	20W (5min. ON, 5min. OFF AVG), 50W (1min. ON, 1min. OFF AVG), 100W (30sec. ON, 3min. OFF AVG)	50Ω	Less than 1.15 (DC to 800MHz), Less than 1.2 (800 to 1000MHz)	MP	30mmxL75mm
DL-50N	DC to 1500MHz	15W (continuous), 20W (5min. ON, 5min. OFF AVG), 50W (1min. ON, 3min. OFF AVG), 100W (30sec. ON, 3min. OFF AVG)	50Ω	Less than 1.15 (DC to 1000MHz), Less than 1.2 (1000 to 1300MHz), Less than 1.3 (1300MHz to 1500MHz)	NP	30mmxL75mm



SP1000

SP3000

SP3000P

SP1000PW

SP3000W

CX-210A

CX-310A

Model	Frequency range	Impedance	Connector	VSWR	Insertion loss	Isolation (output terminated)	Max. power rating	Dimensions (WxHxD)mm	Weight
Surge Protector									
SP1000	DC-1000MHz	50Ω	MJ-MJ	Less than 1.2	Less than 0.3db	—	400W (PEP)	66Wx41Hx20D	80g
SP3000	DC-3000MHz	50Ω	NJ-NJ	Less than 1.2	Less than 0.3db	—	200W (PEP)	78Wx41Hx20D	110g
SP3000P	DC-3000MHz	50Ω	NJ-NP	Less than 1.2	Less than 0.3db	—	400W (PEP)	77Wx41Hx21D	110g
SP1000PW	DC-1000MHz	50Ω	MJ-MP	Less than 1.2	Less than 0.3db	—	400W (PEP)	78Wx55Hx26D	130g
SP3000W	DC-3000MHz	50Ω	NJ-NJ	Less than 1.2	Less than 0.3db	—	200W (PEP)	78Wx55Hx26D	140g
Coaxial Switch									
CX210A	DC to 1000MHz	50Ω	MJ	Less than 1.05:1(DC to 500MHz), Less than 1.1:1(500 to 1000MHz)	Less than 0.05dB(DC to 500MHz), Less than 0.1dB(500 to 1000MHz)	More than 70dB(DC to 200MHz), More than 60dB(200 to 1000MHz)	1.5KW	71Wx57Hx42Dmm	440g
CX210N	DC to 3000MHz	50Ω	NJ	Less than 1.05:1(DC to 500MHz), Less than 1.1:1(500 to 1000MHz), Less than 1.15:1(1000 to 2000MHz), Less than 1.2:1(2000 to 3000MHz)	Less than 0.05dB(DC to 500MHz), Less than 0.1dB(500 to 1000MHz), Less than 0.15dB(1000 to 2000MHz), Less than 0.2dB(2000 to 3000MHz)	More than 70dB(DC to 200MHz), More than 60dB(200 to 1000MHz), More than 55dB (1000 to 2000MHz), More than 50dB(2000 to 3000MHz)	1.5KW	71Wx57Hx42Dmm	440g
CX310A	DC to 800MHz	50Ω	MJ	Less than 1.1:1(DC to 500MHz), Less than 1.2:1(500 to 1000MHz)	Less than 0.1dB(DC to 500MHz), Less than 0.15dB(500 to 1000MHz)	More than 60dB(DC to 500MHz), More than 50dB(500 to 800MHz)	1.5KW(DC to 30MHz), 1KW(30 to 150MHz), 500W(150 to 800MHz)	84Wx95Hmm	575g
CX310N	DC to 1500MHz	50Ω	NJ	Less than 1.1:1(DC to 500MHz), Less than 1.2:1(500 to 1500MHz)	Less than 0.1dB(DC to 500MHz), Less than 0.2dB(500 to 1500MHz)	More than 60dB(DC to 500MHz), More than 50dB(500 to 1500MHz)	1.5KW(DC to 30MHz), 1KW(30 to 150MHz), 500W(150 to 500MHz), 250W(500 to 1000MHz), 150W(1000 to 1500MHz)	84Wx95Hmm	575g

Duplexer & Triplexer



MX-72H

MX-610

MX-62M/N

MX-3000

MX-2000

Model	Passband width	Power rating	Insertion loss (in amateur bands)	Isolation (in amateur bands)	Impedance	VSWR	Connectors	Coaxial Cable	Dimensions (WxHxD)mm	Weight
Duplexer										
MX72A	LPF: 1.6 to 30MHz HPF: 140 to 150MHz	1.6 to 30MHz: 400W(CW)/1kW(PEP)	LPF: Less than 0.15dB HPF: Less than 0.25dB	More than 60dB	50Ω	Less than 1.2	(MIX)NJ,(144)MP (430)NP	5D-2VS (35cm)	46Wx27Hx57Dmm	220g
MX-72N	HPF: 400 to 460MHz	140 to 150MHz: 150W(CW)/400W(PEP)	LPF: Less than 0.15dB HPF: Less than 0.25dB	More than 60dB		Less than 1.2:1	(MIX)MJ,(144)MP (430)NP	5D-2VS (35cm)	46Wx25Hx57Dmm	220g
MX-72H	(LPF: 1.6 to 225MHz HPF: 340 to 1000MHz receiving only)	400 to 460MHz: 100W(CW)/250W(PEP)	LPF: Less than 0.1dB HPF: Less than 0.2dB	More than 60dB		Less than 1.2:1	(MIX)MJ,(144)MP (430)MP	—	46Wx27Hx57Dmm	180g
MX-72D										
MX-610	LPF: 1.3 to 30MHz HPF: 49 to 470MHz (76 to 120MHz receiving only)	1.3 to 30MHz:600W(PEP) 49 to 250MHz:600W(PEP) 300 to 470MHz:500W(PEP)	LPF: Less than 0.2dB (1.3 to 30MHz), HPF: Less than 0.25dB(49 to 470MHz)	More than 45dB	Less than 1.2:1	(MIX)MJ (1.3 to 30MHz) MP (49 to 470MHz) MP	5D-2V (35cm)	86Wx25Hx64Dmm	360g	
MX-62M/N	LPF: 1.6 to 56MHz HPF: 76 to 470MHz (76 to 120MHz receiving only)	600W(PEP)	LPF:Less than 0.2dB/ 140 to 470MHz:Less than 0.3dB	More than 50dB	Less than 1.2:1	(MIX)MJ,NJ (1.6 to 56MHz)MP (76 to 470MHz)MP			360g	
Triplexer										
MX-3300MN					50Ω	Less than 1.2:1	(MIX)MJ,(144)MP (430)NP	5D-2VS (35cm)	86Wx25Hx64Dmm	385g
MX-3000	LPF: 1.6 to 160MHz BPF: 350 to 500MHz HPF: 850 to 1300MHz	LPF: 800W(PEP) BPF: 500W(PEP) HPF: 200W(PEP)	LPF: Less than 0.2dB BPF: Less than 0.3dB HPF: Less than 0.4dB	More than 55dB			(MIX)NJ,(144)MP (430)NP,(1200)NP			
MX-3000N				More than 55dB			(MIX)NJ,(144)MP (430)NP,(1200)NP			
MX-2000	LPF: 1.6 to 60MHz BPF: 110 to 170MHz HPF: 300 to 950MHz	LPF: 800W(PEP) BPF: 800W(PEP) HPF: 500W(PEP)	LPF: Less than 0.15dB BPF: Less than 0.2dB HPF: Less than 0.25dB	More than 60dB			(MIX)MJ,(50)MP (144)MP,(430)MP			
MX-2000N					Less than 1.2:1	(MIX)MJ,(50)MP (144)MP,(430)NP			360g	

SWR/POWER Meter



SX-1100



SX-600/SX-600N



SX-400/SX-400N



SX-200

Model	Frequency range	Power display rating	Minimum power at SWR measurement	Accuracy of full scale	Insertion loss
SWR Power Meter					
SX1100	S1 (1.8-160MHz), S2(430-450MHz/800-930MHz/1240-1300MHz)	5W 20W 200W	S1(1W),S2(2W)	±10%(F.S)	S1(less than 0.2dB), S2(less than 0.15dB)
SX600 SX600N	1.8 to 525MHz/S1(1.8 to 160MHz), S2(140 to 525MHz)		S1(1W), S2(4W)	±10%(F.S)	S1(less than 0.2dB), S2(less than 0.3dB)
SX400 SX400N	140 to 525MHz		4W	5W Range ±10%(F.S),20W Range ±5%(F.S), 200W Range ±5%(F.S),(Add -10% of full scale at 220 to 420MHz,add +10% of full scale at 450 to 525MHz)	Less than 0.1dB(140 to 250MHz) Less than 0.2dB(400 to 470MHz) Less than 0.3dB(525MHz)
SX200	1.8 to 200MHz		1W	5W Range ±5%(F.S),20W Range ±7.5%(F.S), 200W Range ±5%(F.S), (Add +15% of full scale at 160 to 200MHz)	Less than 0.15dB(1.8 to 3.5 MHz), Less than 0.2dB(150 to 200MHz)
SX100	1.6 to 60MHz	30W 300W 3KW	3W	±10%(F.S)	Less than 0.1dB
Compact SWR Power Meter					
SX27P	140 to 150MHz/ 430 to 450MHz	15W 60W	—	—	Less than 0.3dB
Cross Needle SWR Power Meter					
SX40C	144 to 470MHz	30W 300W	3W	10%AT.FS	—
SX20C	3.5 to 30MHz/50 to 54MHz/130 to 150MHz	30W 300W	3W		—
SX240C	3to525MHz/S1 (3to60MHz), S2 (140to525MHz)	30W 300W 3KW	5W	±10%(F.S)	Less than 0.1dB (S1), Less than 0.2dB (S2)

High Performance DC Regulated & Switching Power Supply



GSV3000



GSV1200



GZV6000



GZV4000

©90VAC types and 240VAC type and available

Model	Input voltage	Output voltage	Output current	Dimensions	Weight	Type
GSV3000	AC100V/230V (50,60Hz)	DC1V to 15V variable	30A(continuous)(13.8V) (8hours), 34A(intermittent) (1 min. on and 1 min. off)	250Wx150Hx240Dmm	9kg	Built in Dc cooling fan
GSS3000		13.8VDC	30A(continuous)(13.8V) (8hours), 34A(intermittent) (1 min. on and 1 min. off)			
GSV1200		DC1V to 15V variable	12A(continuous) (13.8V) (8hours), 15A(intermittent) (1 min. on and 1 min. off)	160Wx100Hx235Dmm	5.8kg	
Model	Input voltage	Output voltage	Output current	Dimensions	Weight	Type
GZV6000 (Switching)	AC100V/230V (50,60Hz)	DC1V to 15V variable	60A (continuous, 8hours)	210Wx110Hx330Dmm	5.2kg	Cooling system: Forced air flow with DC fan Built in speaker
GZV4000 (Switching)		DC5 to 15V variable	40A (continuous, 8hours)			
GZV2500 (Switching)		DC5 to 15V variable	20A (continuous, 8hours)	210Wx110Hx220Dmm	2.5kg	

Battery Back-up Exchange Box For Power supply



MSE9140



MS928

Model	Input Voltage Range	Output Loa Current (Continuous)	Voltage Drop between DC Load and 13.8V DC INPUT / 12V	
MSE9140	11-15V	40A	≤0.4A	
MS928	13.5-14.3V	25A	≤0.8A	
Max. Charging Voltage		Max. Charging Current	Dimensions (W×H×D) mm	Weight
12.5Vdc (@13.3Vdc Input) 13.0Vdc (@13.8Vdc Input) 14.2Vdc (@15.0Vdc Input)		0.2-0.6A	95W×70H×60Dmm	240g
12.2Vdc (@13.5Vdc Input) 13.0Vdc (@13.8Vdc Input) 13.8Vdc (@14.3Vdc Input)				

Amateur radio accessories



SX-100



SX27P



SX40C



SX20C



SX240C

Measurement function	Connectors	Display illumination	Powersupply	Dimensions(W×H×D)mm	Weight	Sensor
Forward RF power, Reflected RF power, SWR,PFP monitor	S1 (MJ),S2(NJ)	Meter illumination and LED function display require external DC13.8V power	DC13.8V	155Wx63Hx103Dmm	890g	2 sensors(S1/S2)
	MJ/NJ	—			630g	
	MJ	—			540g	—
	MJ	—			640g	—
Forward Rf power,SWR	MJ	—	—	64Wx75Hx31Dmm	200g	—
—	MJ	—	—	85Wx87Hx95Dmm	270g	—
—		—	—			
Forward RF power, Reflected RF power,SWR,PFP monitor		—	—	DC13.8V	170Wx100Hx130Dmm	1.3Kg

DC to DC Converter



GZR2000



GCM3500



GCR1000



GCR500



GCR125

Model	Input voltage	Output voltage	Max Output current	Dimensions (W×H×D)mm	Weight	Type
GZR2000	DC22V to 30V	DC13.8V±0.5V	20A(continuous), 23A(intermittent)	156Wx57Hx168Dmm	1.4kg	Over load protection circuit:16V±0.5V Back up current:0.2A cooling system
GCM3500			35A	170Wx115Hx270Dmm	3.3kg	Built in DC cooling fan Over load protection circuit
GCR1000			10A(continuous)(DC24V)(for 8 hours), 12A(intermittent)(for 1 min. on and 1 min. off)	143Wx50Hx183Dmm	1.3kg	Over load protection circuit
GCR500			5A (continuous)(DC24V)(for 8 hours), 5.5A(intermittent)(for 1min. on and 1 min. off)	112Wx45Hx100Dmm	0.6kg	
GCR125						

Bracket and Magnetic Base

Trunk Lid Mount Antenna Bracket

K600M

Tilt angle adjustable
0 to 9 degrees
Coaxial cable: 1.5D-Q-
SUPER/5DQ-II
Connector: MJ-MP



KTRI II

Tilt angle adjustable 0 to 9 degrees



TE - 5M

Tilt angle
adjustable 0 to 9 degrees
Coaxial cable: 1.5D-Q-SUPER/5DQ-II
Connector: MJ-MP



Gutter Mount Antenna Bracket

K300

Tilt angle adjustable
SUPER GAINER



K11

(Heavy duty type Tilt angle
adjustable mount only)



K311

2-axis adjustable
(Tilt angle adjustable
mount only)

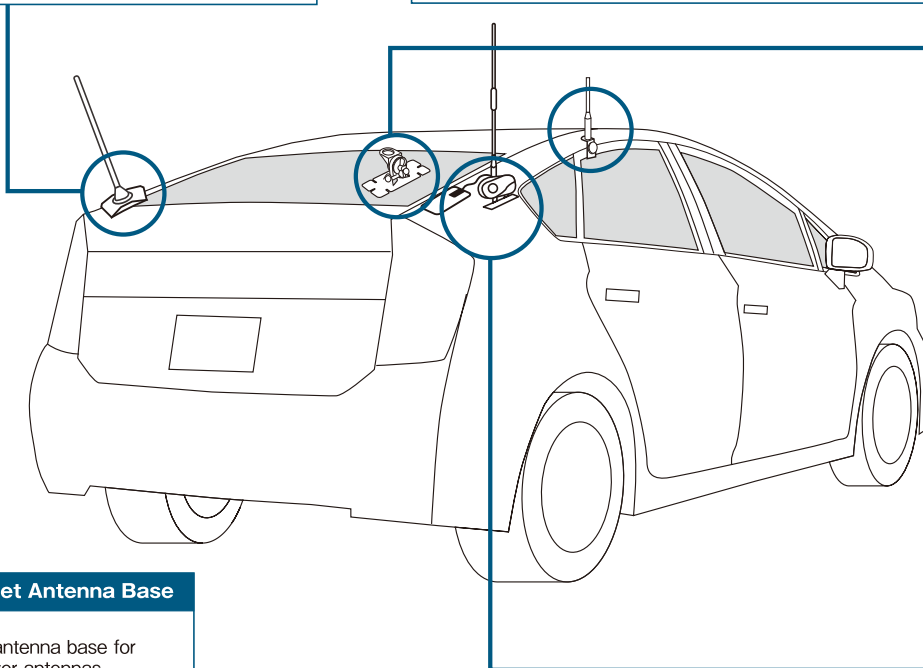
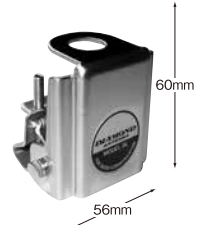


K301

2-axis adjustable
Compact heavy
duty type
(Tilt angle adjustable
mount only)



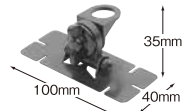
BL (mount only)
Stainless steel



Adhesive Backed Mount

HRK

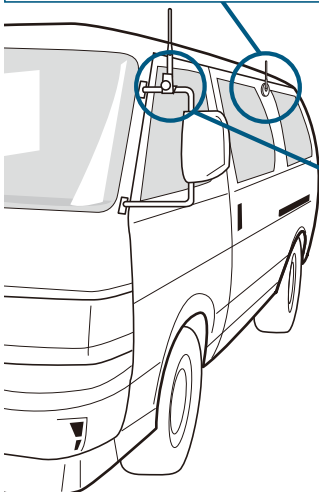
This bracket can accept only
those antennas with less than
1m in length and less than
200g in weight such as
SGM506R, SGM507, AZ510FX,
AZ507R.



Compact Magnet Antenna Base

MCR-M

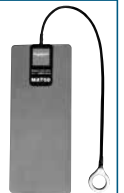
Compact magnet antenna base for
handheld transceiver antennas
Coaxial cable: NL-1.5D-Q SUPER 2.5m
Impedance: 50Ω / Connector: BNCJ-BNCP
Magnet diameter: 53mm



Magnet Antenna Grounding Sheet

MAT 50

* For details,
please refer to P12

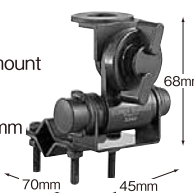


Rooftop Carrier / Mirror Stay Mount Antenna Bracket

SUPER GAINER

K540

Tilt angle adjustable/mount
bracket only
Mast diameter
accepted: 15mm to 25mm



K44L

Rooftop carrier/ Mirror stay mount
antenna bracket
Heavy duty type
Tilt angle adjustable/
mount bracket only
Mast accepted: 15-40mm



CRM

Mount bracket only
Stainless steel
Mast diameter
accepted: 10mm to
27mm



DPK-CR

Mount bracket only
For roof carrier, mirror
stay, stainless steel
Mast diameter
accepted: 8mm to
32mm



CRB

Mount bracket
only/black type
For roof carrier,
mirror stay
Mast diameter
accepted: 8mm to
32mm



CLB

Mount bracket only
Heavy duty type/stainless
steel
Mast diameter
accepted: 10mm to 52mm



Bracket and Magnetic Base

Magnet Base(with Cable)

K702M

With suction cup
Coaxial cable:RG58A/U 4m
Connector:MJ-MP Diameter:160mm



K701M

Coaxial cable: 1.5D-Q-SUPER/5DQ-II
Connector: MJ-MP Diameter: 160mm



Compact size types with suction cup

K707M

Coaxial cable:2.5DQ-S 4m
Connector:MJ-MP



K707B

Coaxial cable:2.5DQ-S 4m
Connector:MJ-BNCP



K707S

Coaxial cable:2.5DQ-S 4m
Connector:MJ-SMAP



MR5A

Coaxial cable: RG-58 C/U 5m
Connector: MJ-MP



MR2A

Coaxial cable:1.5D-Q SUPER(1m)
3.5DQEFV(3m) /Connector:MJ-MP



MR2B

Coaxial cable:1.5D-Q SUPER(1m)3.5DQEFV(3m)
Connector:MJ-BNCP



Strong magnet types

DPK-4NM-N

Coaxial cable:3.5DQEFV 4m
Connector:NJ-NP
Diameter:111mm



DPK-4NM-M

Coaxial cable:3.5DQEFV 4m
Connector:MJ-NP / Diameter:111mm



Super magnet type

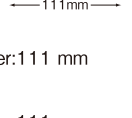
SPM-35

Coaxial cable:3.5DQEFV 4m
Connector:MJ-MP / Diameter:111mm



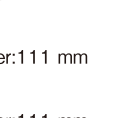
SPM355

Coaxial Cable:3.5DQEFV 5m
Connector:MJ - MP Diameter:111 mm



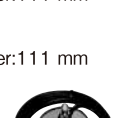
SPM356

Coaxial Cable:3.5DQEFV 6m
Connector:MJ - MP Diameter:111 mm



SPM357

Coaxial Cable:3.5DQEFV 7m
Connector:MJ - MP Diameter:111 mm



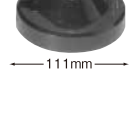
DP-MRX

Magnet base bracket for handheld transceivers
Coaxial cable:RG58A/U3m
Connector:BNC,J-BNCP
Magnet diameter:76.5mm

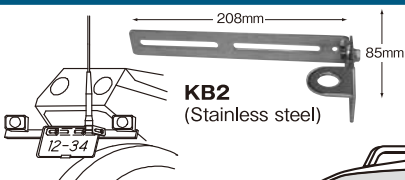


DP-SPM

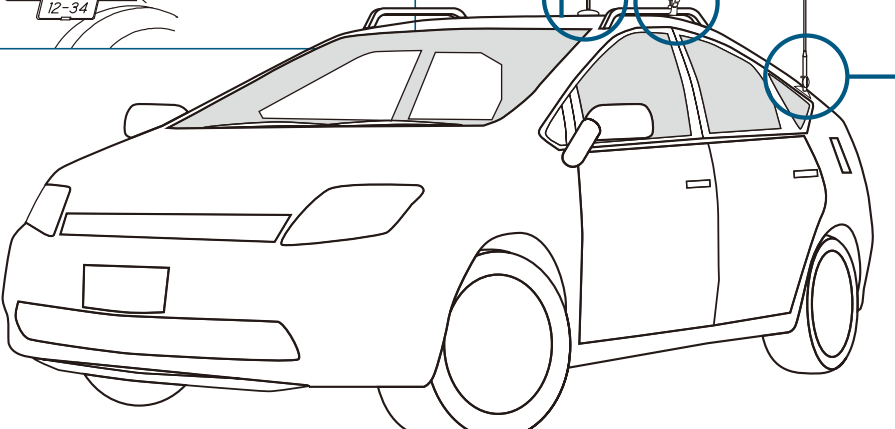
Coaxial cable:RG58A/U 4m
Connector:MJ-MP



Bracket for Motor Bike



KB2
(Stainless steel)



Roofrail Mount Antenna Bracket

SUPER GAINER

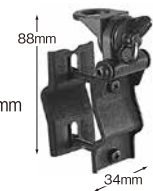
K550

Tilt angle adjustable mount bracket only
Mast diameter accepted:15mm to 25mm



K550L

Rooftop railing height accepted:
Less than 28mm
Width accepted: Less than 75mm
*It cannot be used with the round pipe.



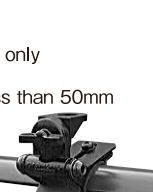
K501

Compact size/heavy duty type
Tilt angle adjustable/mount bracket only
2-axis adjustable
(1)Mast diameter accepted:15mm to 34mm
(2)Rooftop railing Height accepted:Less than 32mm Width accepted:Less than 50mm
(3)Square mast side length accepted:15mm to 26mm



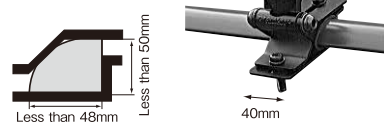
K512

Tilt angle adjustable/mount bracket only
3-axis adjustable
(1)Mast diameter accepted:15mm to 34mm
(2)Rooftop railing Height accepted:Less than 32mm Width accepted:Less than 50mm
(3)Square mast side length accepted:15mm to 26mm



K515

Tilt angle adjustable/mount bracket only
2-axis adjustable
Rooftop railing Height accepted:Less than 50mm
Width accepted:Less than 48mm



Strong Magnet Antenna Base

MRK

Without cable assembly
2-axis adjustable



SPB II

Without cable assembly
Recommend cable Without cable assembly
Recommend cable:
2D, RG58, 3D, 3.5D, 5D



K3000

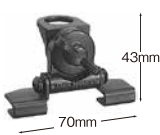
Usable antenna specification
Length: Less than 1.85m
Weight: Less than 1.1kg
Production weight: 1.5kg



Trunk Lid / Hatchback Door Mount Antenna Bracket

K405

2-axis adjustable/mount bracket only
Compact & heavy duty type



K401

2-axis adjustable/mount bracket only
Compact & heavy duty type



K412

3-axis adjustable/mount bracket only



K413

3-axis adjustable/mount bracket only



K416

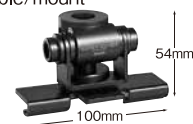
3-axis adjustable/mount bracket only



SUPER GAINER

K400

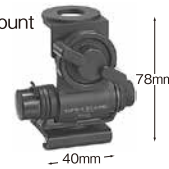
Tilt angle adjustable/mount bracket only



SUPER GAINER

K402

3-axis adjustable/mount bracket only



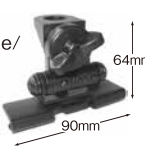
K33

Tilt angle adjustable/mount bracket only Heavy duty type



K415

3-axis adjustable/mount bracket only



● Separation Cable (Antenna Side)

	Model	1.5D-Q · super	Connector
Diameton (mm) 1.5D-Q-SUPER 3.0mm	SLM-050	0.5m	MLJ
	SLM-100	1.0m	MLJ
	SLM-150	1.5m	MLJ
	SLM-200	2.0m	MLJ
	SLM-250	2.5m	MLJ
	SLM-300	3.0m	MLJ
	SLN-100	1.0m	NLJ
	SLN-150	1.5m	NLJ
	SLN-200	2.0m	NLJ

*with Opsealer, Dressing ring, and 2pcs M16 nut

● Separation Cable (Radio Side)

	Model	5DQ-II	Connector
Diameton (mm) 5DQ-II 7.5mm	DQM-150	1.5m	MP
	DQM-200	2.0m	MP
	DQM-250	2.5m	MP
	DQM-300	3.0m	MP
	DQM-350	3.5m	MP
	DQM-400	4.0m	MP
	DQM-450	4.5m	MP
	DQM-500	5.0m	MP
	DQM-550	5.5m	MP
	DQN-200	2.0m	NP
DQN-300	3.0m	NP	
DQN-400	4.0m	NP	

● Mobil Cable Assembly

	Model	1.5D-Q · SUPER+5DQ- II	Connector
4m TYPE	M410R	1.0m+3.0m	MLJ-MP
	M420R	2.0m+2.0m	MLJ-MP
5m TYPE	M510R	1.0m+4.0m	MLJ-MP
	M520R	2.0m+3.0m	MLJ-MP
	M525R	2.5m+2.5m	MLJ-MP
6m TYPE	M610R	1.0m+5.0m	MLJ-MP
	M620R	2.0m+4.0m	MLJ-MP
	M625R	2.5m+3.5m	MLJ-MP

● Coaxial Cable Set for Base Antenna

	Model	Coaxial Cable	Connector
10m TYPE	5D10MB	5D-2V 10m	MP-MP
	5DF10MB	5D-FB 10m	MP-MP
15m TYPE	5D15MB	5D-2V 15m	MP-MP
	5DF15MB	5D-FB 15m	MP-MP
20m TYPE	5D20MB	5D-2V 20m	MP-MP
	5DF20MB	5D-FB 20m	MP-MP
25m TYPE	5D25MB	5D-2V 25m	MP-MP
	5DF25MB	5D-FB 25m	MP-MP
30m TYPE	5D30MB	5D-2V 30m	MP-MP
	5DF30MB	5D-FB 30m	MP-MP

● Mobile Coaxial Cable Assembly

	Model	Coaxial Cable	Connector
RG58/U 5.0mm	RG3MR	RG58A/U3m	MLJ-MP
	RG4MR	RG58A/U4m	MLJ-MP
	RG5MR	RG58A/U5m	MLJ-MP
	RG6MR	RG58A/U6m	MLJ-MP
	RG7MR	RG58A/U7m	MLJ-MP
	5DQ-II 7.5mm	5DQ4MR	5DQ- II 4m
5DQ5MR		5DQ- II 5m	MLJ-MP
5DQ6MR		5DQ- II 6m	MLJ-MP
5D-2V 7.3mm	5D4MR	5D-2V4m	MLJ-MP
	5D5MR	5D-2V5m	MLJ-MP
	5D6MR	5D-2V6m	MLJ-MP
	5D7MR	5D-2V7m	MLJ-MP
5D-QEFV	5DFJ4MR	5D-QEFV4m	MLJ-MP
	5DFJ5MR	5D-QEFV5m	MLJ-MP
	5DFJ6MR	5D-QEFV6m	MLJ-MP
3.5D-LFV 5.6mm	3D4MR	3.5D-LFV4m	MLJ-MP
	3D5MR	3.5D-LFV5m	MLJ-MP
	3D6MR	3.5D-LFV6m	MLJ-MP
2D-LFB-S 3.9mm	2D1MR	2D-LFB-S1m	MLJ-MP
	2D2MR	2D-LFB-S2m	MLJ-MP
	2D3MR	2D-LFB-S3m	MLJ-MP
	2D4MR	2D-LFB-S4m	MLJ-MP
	2D5MR	2D-LFB-S5m	MLJ-MP
	2D1BRL	2D-LFB-S1m	MLJ-BNCP
	2D2BR	2D-LFB-S2m	MLJ-BNCP
	2D3BR	2D-LFB-S3m	MLJ-BNCP
	2D4BR	2D-LFB-S4m	MLJ-BNCP
	2D5BR	2D-LFB-S5m	MLJ-BNCP
	2D1SRL	2D-LFB-S1m	MLJ-SMAP
	2D2SR	2D-LFB-S2m	MLJ-SMAP
	2D3SR	2D-LFB-S3m	MLJ-SMAP
	2D4SR	2D-LFB-S4m	MLJ-SMAP
	2D5SR	2D-LFB-S5m	MLJ-SMAP
RG58C/V 5.0mm	ECH	RG58C/V4m	MLJ-MP
	ECH5	RG58C/V5m	MLJ-MP

2D1SS

- Coaxial cable:2D-LFB-S1m
- Connector:SMAP-SMAJ



2D1SB

- Coaxial cable:2D-LFB-S1m
- Connector:SMAP-SMAJ



2D1BS

- Coaxial cable:2D-LFB-S1m
- Connector:BNCP-SMAJ



2D1BR

- Coaxial cable:2D-LFB-S1m
- Connector:MJ-BNCP



M102B

- Coaxial cable:2D-LFB-S1m
- Connector:MP-BNCP



1D05SR

- Coaxial cable:1.5DS-EXL0.5m
- Connector:MJ-SMAP



1D05SR

- Coaxial cable:1.5DS-EXL1m
- Connector:MJ-SMAP



2D1SR

- Coaxial cable:2D-LFB-S1m
- Connector:MJ-SMAP



M102S

- Coaxial cable:2D-LFB-S1m
- Connector:MP-SMAP



5D05M

- 5D2V 0.5m
- Connectors : MP-MP

5D1M

- 5D2V 1m
- Connectors : MP-MP

5D05N

- 5DFB 0.5m
- Connectors : NP-NP

5D3M

- 5D2V 3.0m
- Connectors : MP-MP

5D3MJ

- 5D2V 3.0m
- Connectors : MP-MJ

5D05M

- 5D2V 5.0m
- Connectors : MP-MP

5D5MJ

- 5D2V 5.0m
- Connectors : MP-MJ



Accessories

Rooftop Tower and Antenna Mast Set

YS5

Stay wire: 3mmx40m / Turn buckle: 4 pieces (for 3mm diameter)
Wire clip: 32 pieces / Screw eye bolt: 4 pieces (antenna mast)
Length: 5.0m / Step: 5 Aluminum / Weight: 4.2kg (rooftop tower)
Height: 84.5cm /
Foot span: 74cm / Max. load: 400kg / Weight: 5.47kg

Antenna poles

FP-8 Length: 7.25m 4 stages, aluminum

FP-10A Length: 9.07m 5 stages, aluminum

FP-12 Length: 10.92m 6 stages, aluminum

FP-14 Length: 12.8m 7 stages, aluminum

FP-5 Length: 5.0m 5 stages, aluminum

Base holders

FB-5

Height: 1.15m / Bottom width: 95cm
Max. vertical load: 400kg / Weight: 6.5kg

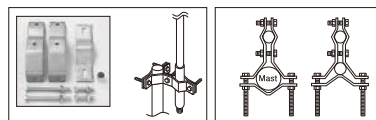


Mast Bracket



S-1

Zinc diecast
Mast diameter accepted: 30mm to 60mm
Max. antenna load must be less than 2m in total length and less than 1.0kg in total weight.



S-3

Stainless steel
Antenna diameter accepted: 22mm to 40
Mast diameter accepted: 40mm to 100mm
Max. antenna load must be less than 2m in total length and less than 1.0kg in total weight.
To install an antenna that is more than 2m in length or 1kg in weight, use two sets of the brackets in parallel.

Stay Wires for Antenna Pole



FW-316

3mm stay wire 160m,
turn buckles 12 pieces,
wire clips 96 pieces

FW-312

3mm stay wire 120m,
wire clips 36 pieces

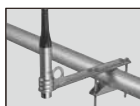
Mast Base for Mobile Tire

TMB

Possible Mount Mast Diameter : ϕ 25-50
Possible Mount Weight: 10kg
(including the mast weight)
Dimension: 185Wx535Lx420Hmm
Weight: 6.65kg



Balcony Railing Bracket for Installing A Mobile Antenna



BK10

Bracket only
Mast diameter accepted:
25mm to 64mm
Square axis accepted:
Less than 64mm

BK45

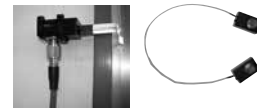
Length: Less than 3.5m,
Weight: Less than 2kgs
Installation possibility pipe size
Circle pipe: ϕ 22- ϕ 62mm, Corner pipe: 62 x 50 mm
Pipe size: L type 450mm x 350mm ϕ 32 (made of aluminum)
Weight: 700g



Window Through Cable Set

MGC50

Frequency: DC-1500MHz
Max. power rating: HF-50MHz 150W (SSB) / 50W (FM/CW)
144MHz 40W (FM), 430MHz 30W (FM), 1200MHz 10W (FM)
SWR: HF-500MHz Less than 1.2, 500 - 1000MHz Less than 1.3
More than 1000MHz Less than 20.3 (1200MHz: Less than 1.7)
Insertion loss: 144MHz Less than 0.3dB, 430MHz Less than 0.6dB, 1200MHz Less than 1.6dB
Impedance: 50 Ω , Connector: MJ-MJ
Cable length: approx. 50cm (between connectors), Weight: 102g



Common Mode Filter

CMF2000

Frequency: 1 to 54MHz
Max. power rating: 2kW (SSB)
Common mode attenuation: More than -50dB (MAX)
Insertion loss: Less than 0.2dB
Impedance: 50 Ω
VSWR: Less than 1.2
Length: 380mm
Weight: 650g
Connector: MJ (both sides)



CMF5000

Frequency: 1 to 54MHz
Max. power rating: 5kW (SSB)
Common mode attenuation: More than -50dB (MAX)
Insertion loss: Less than 0.2dB
Impedance: 50 Ω
VSWR: Less than 1.2
Length: 415mm
Weight: 1,180g
Connector: MJ (both sides)



Portable Telescopic Antenna Pole

AM450

Length: approx. 1.4m (minimum) to approx. 4.5m (maximum)
Weight: Approx. 1.2kg
Pipe diameter: ϕ 22mm (upper)- ϕ 31mm (lower), 4 sections telescopic type
Maximum weight load: approx. 8kg (in perpendicular setting and calm)
Accessories: Stay rope 30m, Base bracket for coaxial connector, Fix bolt, Camera screws (all screws), Rock nut.

AM600

Length: approx. 1.6m (minimum) to approx. 6.0m (maximum)
Weight: Approx. 1.6kg
Pipe diameter: ϕ 22mm (upper)- ϕ 34mm (lower), 5 sections telescopic type
Maximum weight load: approx. 8kg (in perpendicular setting and calm)
Accessories: Stay rope 30m, Base bracket for coaxial connector, Fix bolt, Camera screws (all screws), Rock nut.

AS600

Length: Approx. 93cm (Folding)
Weight: Approx. 2kg
Max. load capacity: Approx. 50kg
(when horizontally setting and no wind)
Max. legs spread width: Approx. 1m
Pole diameter accepted: Pipe ϕ 31 and Pipe ϕ 34



Conversion Connector

BNCP-SMAJ



BNCJ-SMAP



SMAJ-SMAJ



Power Supply Cable Set

PC-1

Cable length: 1m Fuse: 20A
*T type plug / with pressure terminal

PC-3

Cable length: 3m Fuse: 20A
*T type plug / with pressure terminal



Speaker



P1010

Speaker: 102mm 8 Ω
With Noise Filter
With magnetic bracket
Mute switch (-8dB)
Max. input: 6W
Dimension: 142Wx113Hx57Dmm



P810A

Built-in amplifier with volume control
Built-in noise filter
Speaker: 77mm 8 Ω
Power: DC13.8V Only for 12V battery cars
Max. input: 6W
Dimensions: 113Wx93Hx49Dmm
Cigar lighter plug, DC cable 3m with 3.5mm plug, and magnet bracket are included



P810

Built-in noise filter switch and mute switch (-8dB) /
Speaker: 77mm 8 Ω
Max. input: 6W /
Dimensions: 113Wx93Hx43Dmm
Magnet bracket is included



P710

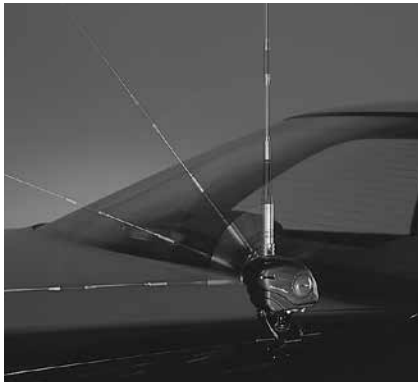
Speaker: 57mm 8 Ω
With Noise Filter
With magnetic bracket
Max. input: 3W
Dimension: 85Wx75Hx43Dmm



P610

Speaker: 57mm 80ohms
Max. input: 5W
Dimensions: 75Wx69Hx31Dmm
Magnet bracket and DC cable 3m with 3.5mm plug are included

Motor Drive Mount Base

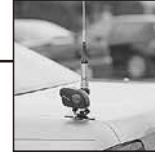


※The K9000 can not be used without appropriate installation bracket.

K9000
The K9000 can not be used without appropriate installation bracket.



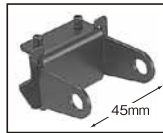
- KRS**
Roofside gutter mount bracket
- KRR**
Rooftop railing mount bracket
- KLR**
Rooftop railing mount bracket
- KTH**
Trunk lid/hatchback gate mount bracket
- K3000**
Strong Three-point Magnet Antenna Base



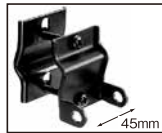
K9000

- Operation Voltage: DC13.8V(10 to 16V)
- Current consumed: 0.95Amax(13.8V)
- Operation speed: Approx. 4sec.(from 0 to 90 degrees)
- Operation angle: between 45 to 90 degrees
- Driving torque: More than 40kg/cm
- Max. antenna load: Less than 1.4m in total length, less than 350g

KRS



KRR



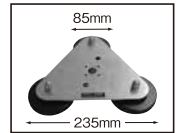
KLR



KTH



K3000



Accessory for Receiver



SS500 (SPLITTER/COMBINER)

0.5-500MHz
Isolation: More than 18dB(0.5-3MHz), More than 30dB(3-200MHz),
More than 17dB(200-500MHz)
Insert loss: Less than 0.6dB(0.5-3MHz),
Less than 0.8dB(3-200MHz),
Less than 1.0dB(200-500MHz)
Dimension: 46(W) × 27(H) × 57(D)mm / Weight: 130g
Impedance: 50Ω / Connector: M-J /
VSWR: Less than 2.0



DMAX50

Frequency: 0.5 to 1500MHz
Gain: 20dB (MAX) - -20dB (MIN)
Impedance: 50Ω, NF 3.5dB IP3 15dBm
Power supply: DC13.8V
Weight: 220g
Dimension: 86W × 25H × 64Dmm
Attachment: AC adapter,
cigar lighter plug,
magic tape, rubber cushions

Compact Magnet Antenna Base

MCR-II

Universal joint structure
Coaxial cable: NL-1.5D-Q SUPER 2.5m
Impedance: 50Ω
Connector: BNCJ-BNCP



MCR-M

Compact magnet antenna base for handheld transceiver antennas
Coaxial cable: NL-1.5D-Q SUPER 2.5m
Impedance: 50Ω / Connector: BNCJ-BNCP / Magnet diameter: 53mm



MCR-II SMA

Universal joint structure
Coaxial cable: NL-1.5D-Q SUPER 2.5m
Impedance: 50Ω
Connector: SMAJ-SMAP

DP-MRX

Coaxial cable: RG58A/U 3m
Connector: BNCJ-BNCP
Magnet diameter: 76.5mm



MCR-M SMA

Compact magnet antenna base for handheld transceiver antennas
Coaxial cable: NL-1.5D-Q SUPER 2.5m
Impedance: 50Ω / Connector: SMAJ-SMAP / Magnet diameter: 53mm



Accessory for Handheld Transceivers

DEH7M/K/S/V:Earphone

DEH 7M ϕ 3.5 Single plug type for ICOM, YAESU, STANDARD, ALINCO
 DEH 7K ϕ 2.5 Single plug type for KENWOOD
 DEH 7S ϕ 3.5 4 Pole type (water proof), one plug for STANDARD
 DEH 7V ϕ 3.5 4 Pole type, one plug for ICOM, YAESU, STANDARD

Frequency range: 100MHz to 2000MHz

In put Earphone: 1.5mW(MAX)

Impedance: 32 Ω / Cable lenght: 1.5m(M/K), 1.0m(S/V)



DEH17M/K/S/V:Earphone

DEH17M ϕ 3.5 L-plug For ICOM, YAESU, STANDARD, ALINCO
 DEH17K ϕ 2.5 L-plug For KENWOOD
 DEH17S ϕ 3.5 4 poles straight plug, waterproof For STANDARD
 DEH17V ϕ 3.5 4 poles L-plug For ICOM, YAESU, STANDARD

Frequency range: 20Hz to 3500Hz

In put Earphone: 5mW (MAX)

Impedance: 32 Ω

Weight: 20g Cable Length: 1.0m



HE27M/K:Earphone

Earphone: Magnetic earphone Impedance: 32 Ω

Frequency: 20Hz - 20kHz

Power: 4mW (Max) Weight: 6g

Code length: 75cm

Plug: HE27M ϕ 3.5 straight plug

HE27K ϕ 2.5 straight plug



HE37:Earphone

Soft earplug type

For ICOM, YAESU, STANDARD / Frequency: 20 to 4000Hz /

Power: 500mW (Max) / Impedance: 8 Ω

Earphone: Magnetic earphone / Code: Twist type, approx. 1m /

Connector: 3.5mm straight plug



HE47M/K/P:Earphone

HE47M ϕ 3.5 L plug for ICOM, YAESU, STANDARD, ALINCO

HE47K ϕ 2.5 L plug for KENWOOD

HE47P ϕ 3.5 Straight plug for (ICOM, YAESU, STANDARD)

Frequency range: 20Hz to 4500Hz

In put Earphone: 300mW(MAX) / Impedance: 8 Ω /

Cable lenght: 1.0m



HE57M/K/S/V:Earphone

HE57M ϕ 3.5 1 plug type for ICOM, YAESU, STANDARD, ALINCO

HE57K ϕ 2.5 1 plug type for KENWOOD

HE57S ϕ 3.5 4 pole type, waterproof, one plug for STANDARD VX6/VX7

HE57V ϕ 3.5 4 pole type, one plug for ICOM, YAESU, STANDARD

In-Put Earhone: 80mW (MAX), Impedance: 32 Ω

Weight: 20g, Cable Length: 75cm



HE77M/K:Earphone

HE77M ϕ 3.5 1 plug type for ICOM, YAESU, STANDARD, ALINCO

HE77K ϕ 2.5 1 plug type for KENWOOD

Frequency: 300Hz-20kHz

In-put Earphone: 40mW (MAX), Impedance: 32 Ω

Weight: 20g, Cable length: 1.1m (MAX)



HE87M/K:Earphone

HE77M ϕ 3.5, 2 plugs for ICOM, STANDARD, YAESU, ALINCO

HE77K ϕ 2.5, 2 plugs for KENWOOD

Weight: 20g / Code length: 50cm (Max)

Frequency: 300Hz-20kHz, IN-PUT earphone: 80mW (Max)

Impedance: 32 Ω



MS800M/K/S/ID/L/LS/KD/VD:Speaker Microphone

MS800M 2 plugs straight type for ICOM, STANDARD, ALINCO

MS800K 2 plugs L type for KENWOOD

MS800S 1 plug waterproof for STANDARD, ALINCO

MS800ID Special plug for ICOM

MS800L 2 plugs L type for ICOM

MS800LS 2 plugs L type slim for ICOM

MS800KD Special plug for KENWOOD

MS800VD Special plug for STANDARD, YAESU

In-Put Speaker: 500mW (MAX) 8 Ω

Microphone: ECM TYPE, 2.2k Ω

Microphone Sensibility: -40 \pm 2dB

Cable length: approx. 2.0m, Weight: 105g



MS900WID/KD/VD/S:Speaker Microphone

MS900WID Special plug for ICOM IC-DPR5

MS900WKD Special plug for KENWOOD TPZ-D503

MS900WVD Special plug for VERTEX STANDARD VXD-10

MS900WS 1 plug waterproof for STANDARD, ALINCO

Weight: 150g

Speaker-PUT: 1W (Max)

Impedance: 8 Ω

Microphone: 2.2k Ω ECM type

Microphone sensibility: -40 \pm 2dB

Code length: 1.5m (Max)

Remarks: Waterproof type



EM15M/K/S/L/ID:Earphone Microphone

EM15M 2 plugs straight type for ICOM, STANDARD, ALINCO

EM15K 2 plugs L type for KENWOOD

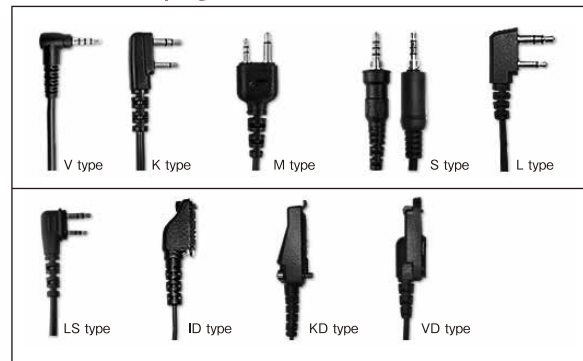
EM15S 1 plug waterproof for STANDARD, ALINCO

EM15L 2 plugs L type for ICOM

EM15ID Special plug for ICOM



EM/MS Series plug



V type
 ϕ 3.5
 4poles
K type
 Speaker: ϕ 2.5
 Microphone: ϕ 3.5
M type
 Speaker: ϕ 3.5
 Microphone: ϕ 2.5
S type
 ϕ 3.5
 4poles
L type
 Speaker: ϕ 3.5
 Microphone: ϕ 2.5
LS type
 Speaker: ϕ 3.5
 Microphone: ϕ 2.5
ID type
 special plug
KD type
 special plug
VD type
 special plug

DEM20M/K/V/S:Earphone Microphone

DEM20M 2 plugs type for ICOM, YAESU, STANDARD, KENWOOD

DEM20K 2 plugs type for KENWOOD

DEM20V 1 plug type for ICOM, YAESU, STANDARD

DEM20S 1 plug type (water proof) for STANDARD

Built-in PTT locking mechanism / Direction free clip

Impedance: 32 Ω / Microphone: 2.2kohms ECM

Earphone input: 5mW (MAX) / Weight: 34g /

Cable length: Approx. 1.0m



DEM Series plug



V type
 ϕ 3.5
 4poles

K type
 Speaker: ϕ 2.5
 Microphone: ϕ 3.5

M type
 Speaker: ϕ 3.5
 Microphone: ϕ 2.5

S type
 ϕ 3.5
 4poles

MIC10M/K/S/LS/ID/KD/VD

Microphone: 2.2k Ω ECM type

Microphone sensibility: -32 \pm 3dB

Weight: 40g

Code length: 85cm

with earphone Jack ϕ 2.5, 2poles

Recommended earphone Impedance: 32 Ω

MIC10M Speaker ϕ 3.5, Microphone ϕ 2.5

MIC10K Speaker ϕ 2.5, Microphone ϕ 3.5

MIC10S ϕ 3.5 4 poles straight plug waterproof

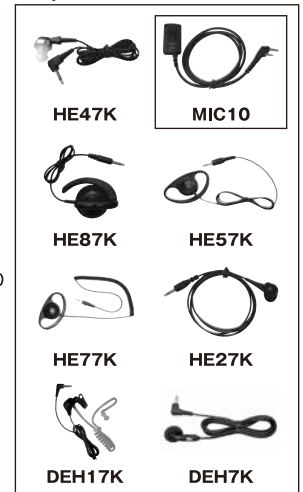
MIC10LS L type Speaker ϕ 3.5, Microphone ϕ 2.5

MIC10ID Digital convenience radio for ICOM

MIC10KD Digital convenience radio for KENWOOD

MIC10VD Digital convenience radio for YAESU

Earphone for MIC10





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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