



**DIAMOND**  
ANTENNA

# COMMUNICATION WORLD

ANTENNAS / ACCESSORIES

## CATALOG

### 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

Miyata Building, No. 15-1, 1-chome Sugamo, Toshima-ku Tokyo 170-0002, Japan.

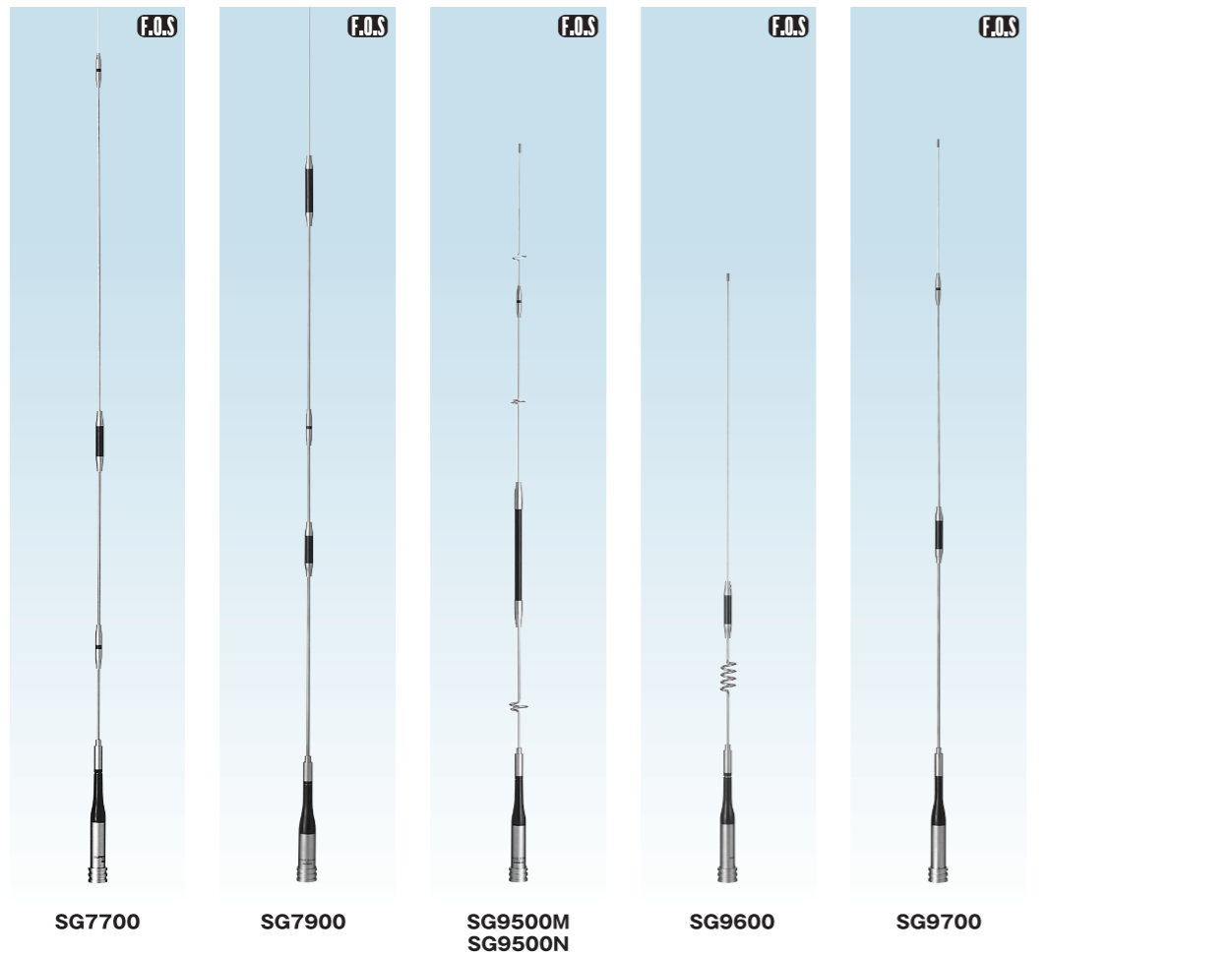
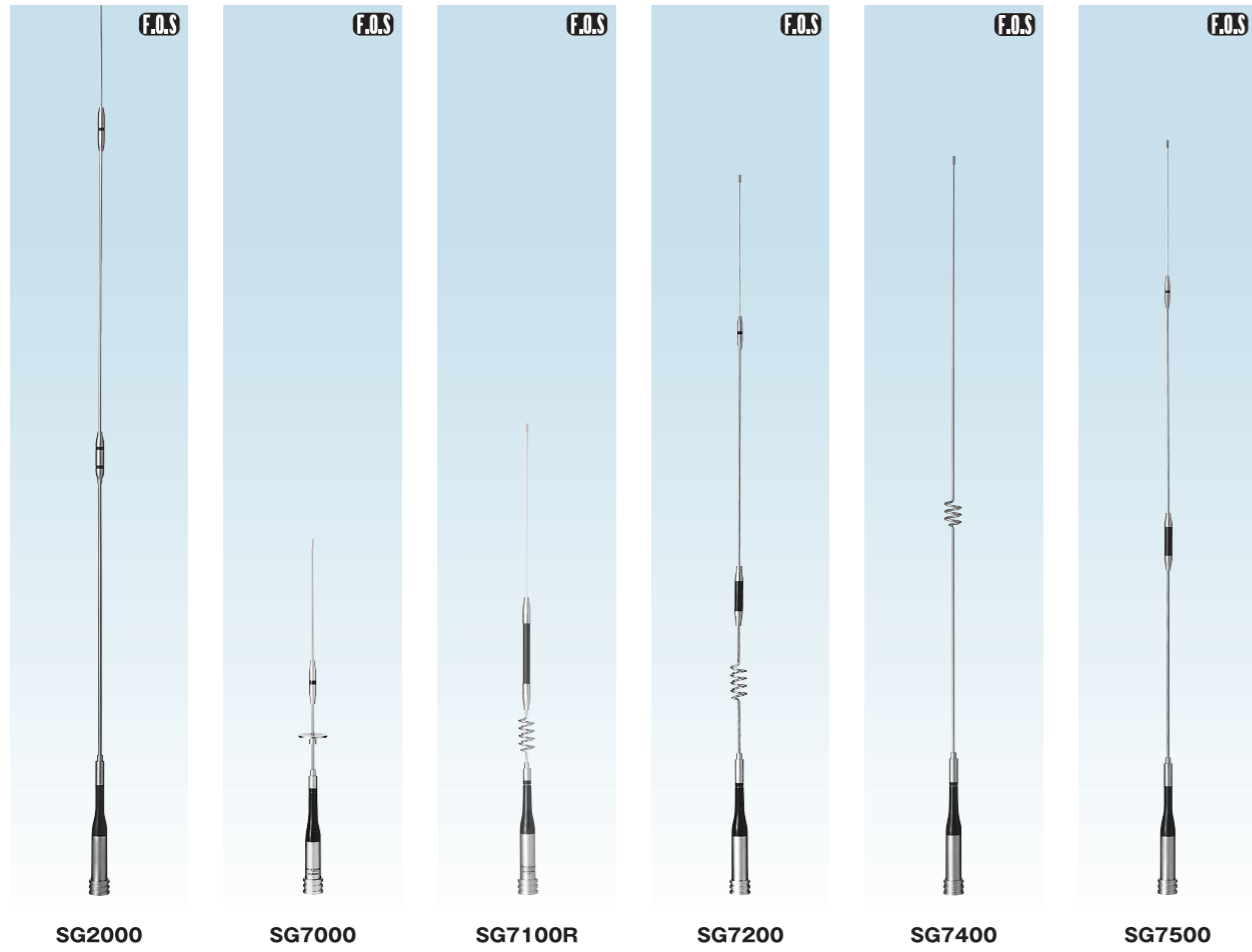
Phone No.03-3947-1411 Fax No.03-3944-2981

<http://www.diamond-ant.co.jp/english.html> E-mail:overseas@diamond-ant.co.jp

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

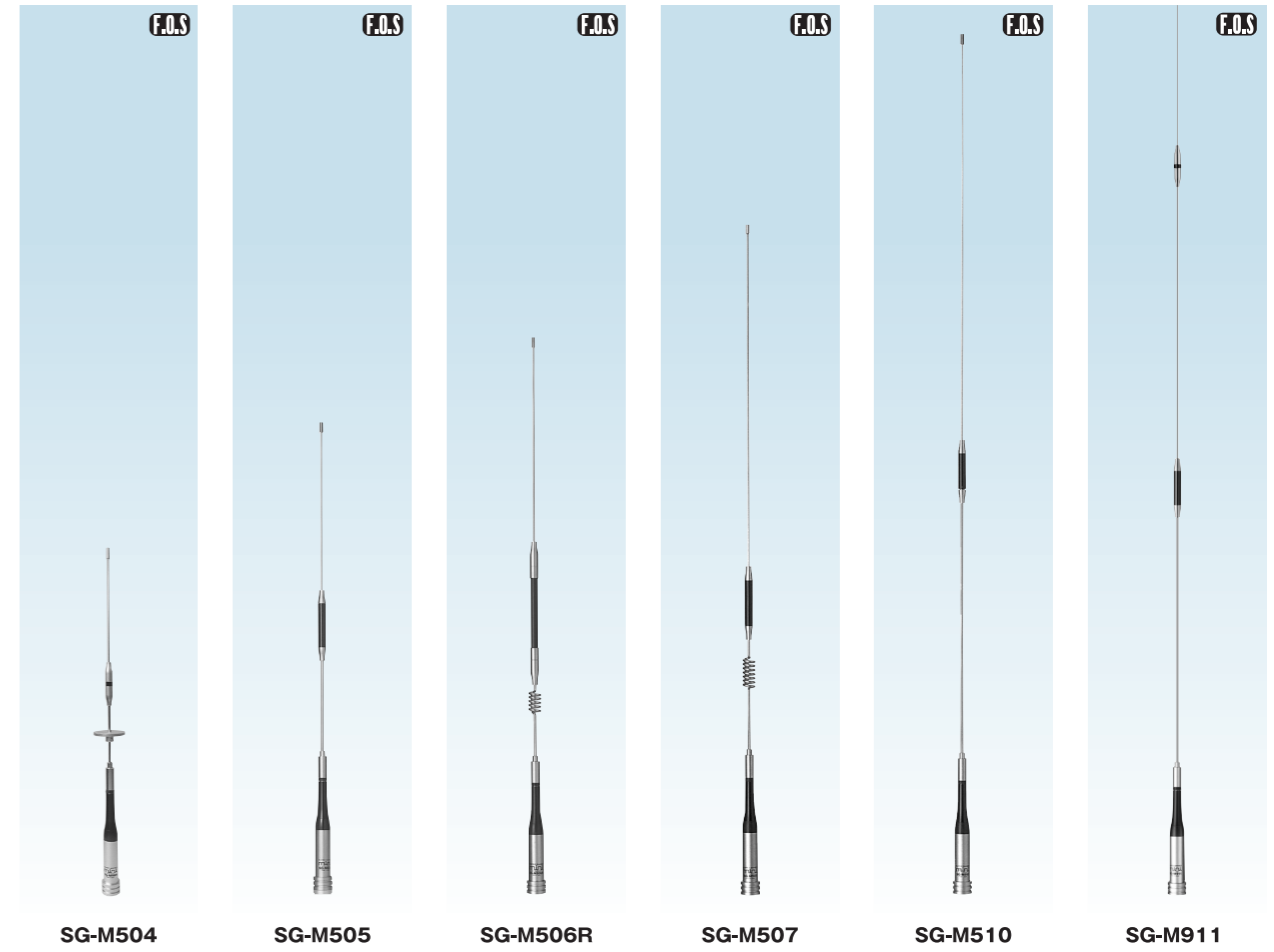
HF/V/UHF  
Mobile  
Whip  
Antenna

SUPER GAINER



HF/V/UHF  
Mobile  
Whip  
Antenna

SUPER GAINER mini



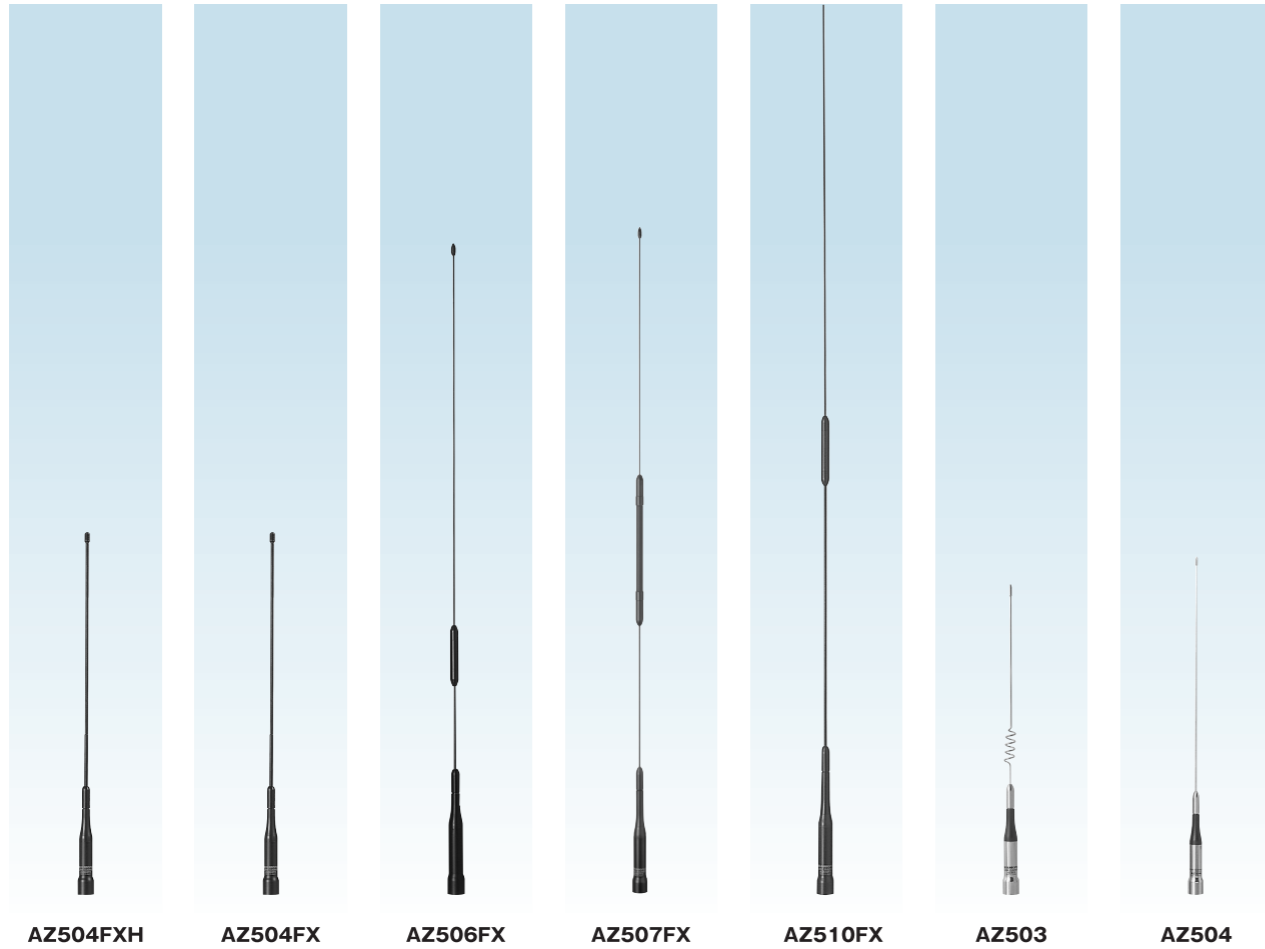
Model	Frequency	Gain	Max. power rating	Length	Weight	Connector	Type
<b>SUPER GAINER HF/V/UHF Mobile Whip Antenna</b>							
SG2000	144MHz (2m)	5.2dB	150W	1.59m	400g	MP	7/8λ double C-Load radialless
SG7000	144/430MHz (2m/70cm)	2.15dBi (144MHz), 3.8dB (430MHz)	100W (Total)	0.47m	280g	MP	1/4λ C-Load (144MHz), 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)
<b>SUPER GAINER mini HF/V/UHF Mobile Whip Antenna</b>							
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), 3.8dBi (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

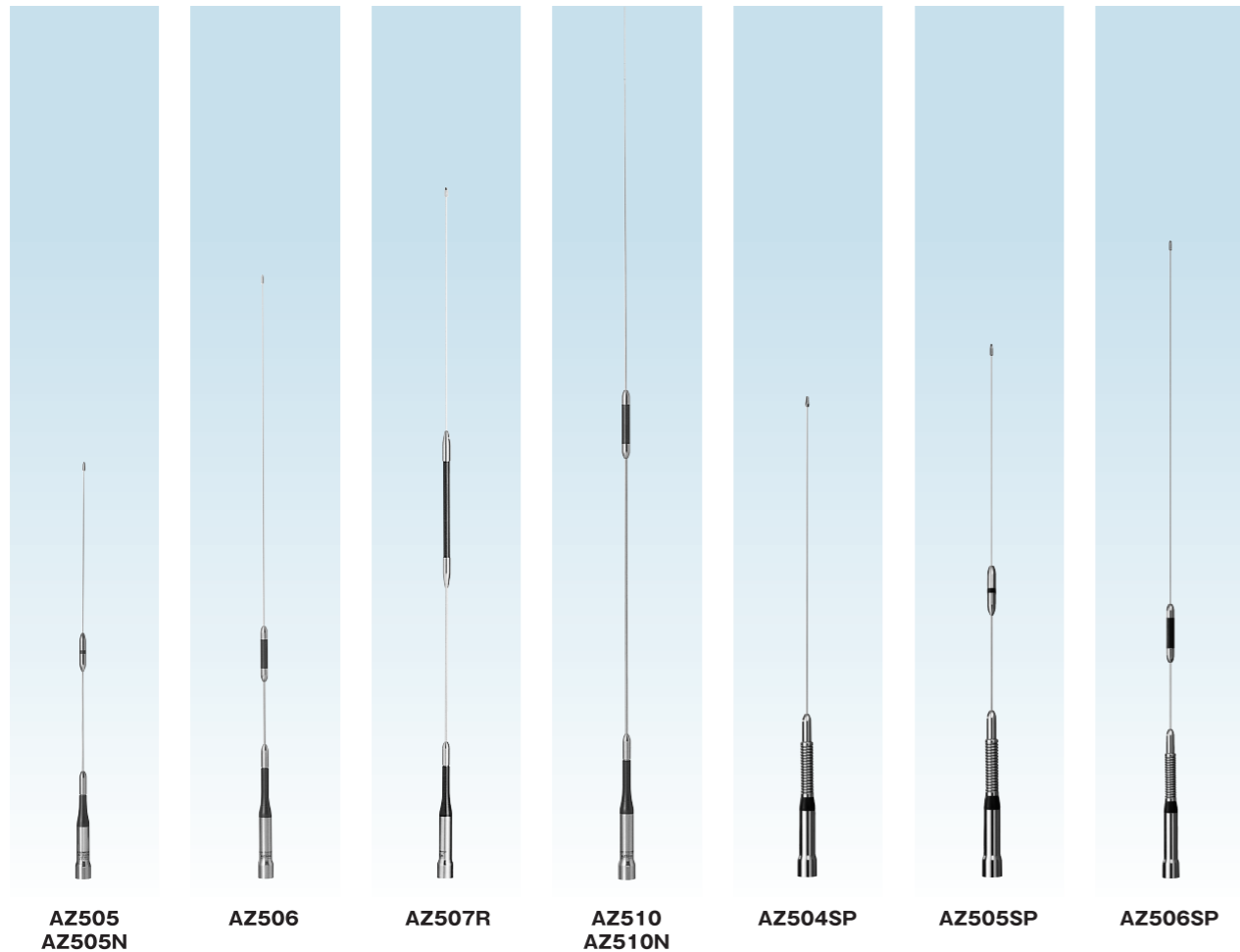
Amateur radio antennas

HF/V/UHF  
Mobile  
Whip  
Antenna

SLIM GAINER



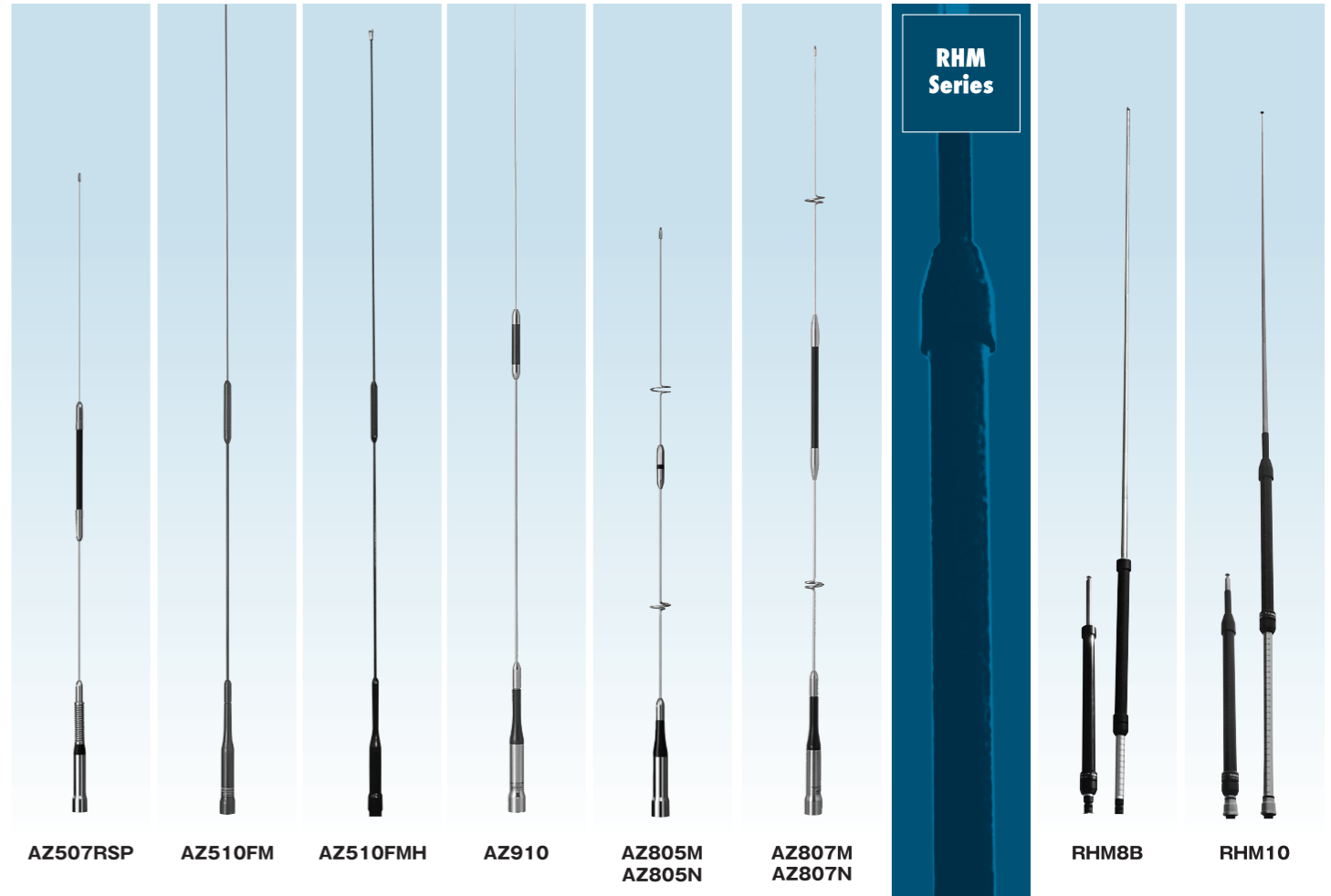
AZ504FXH AZ504FX AZ506FX AZ507FX AZ510FX AZ503 AZ504



AZ505 AZ505N AZ506 AZ507R AZ510 AZ510N AZ504SP AZ505SP AZ506SP

Amateur radio antennas

RHM  
Series



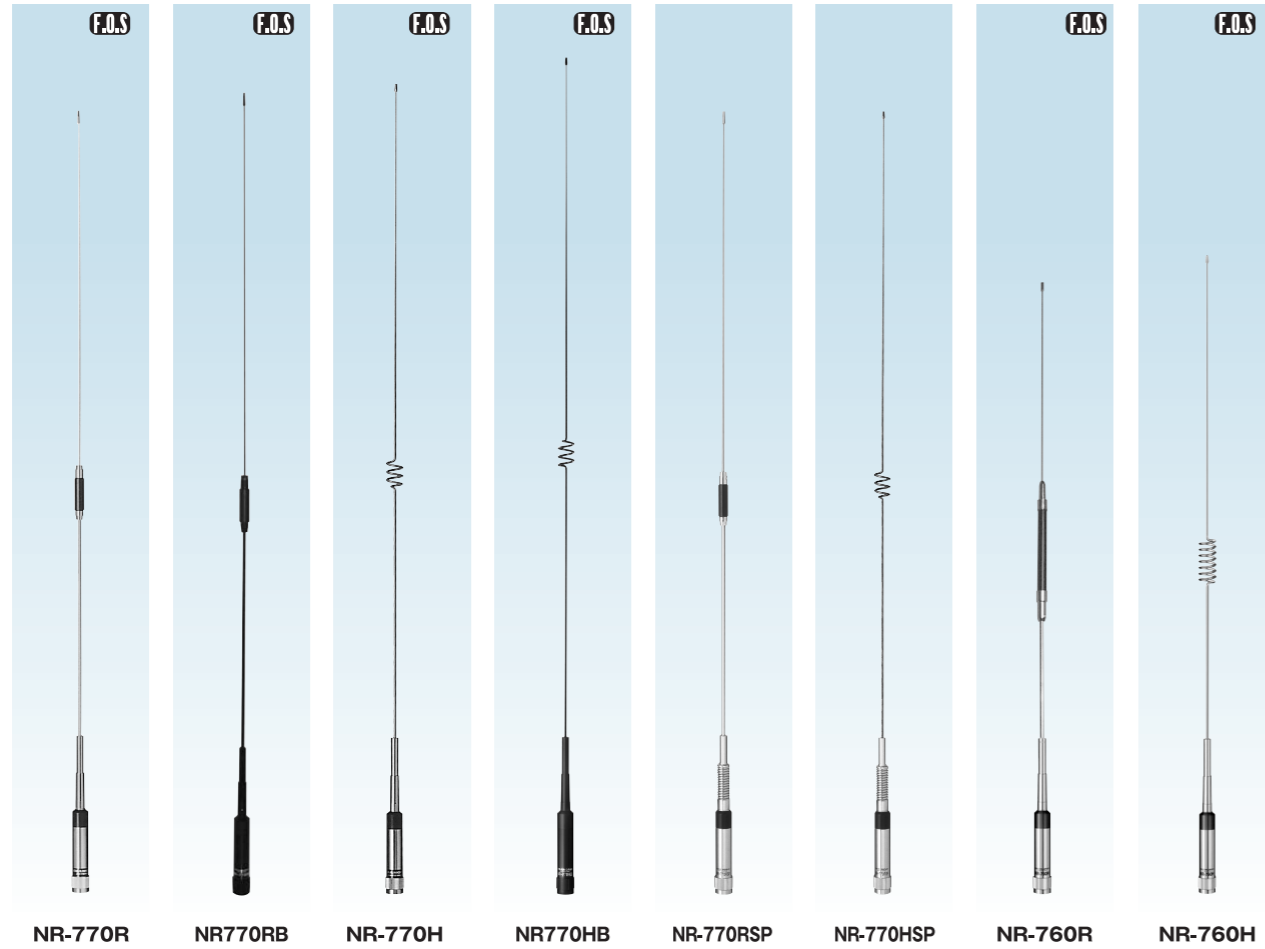
AZ507RSP AZ510FM AZ510FMH AZ910 AZ805M AZ805N AZ807M AZ807N RHM8B RHM10

Model	Frequency	Gain	Max. power rating	Length	Weight	Connector	Type
<b>SLIM GAINER HF/V/UHF Mobile Whip Antenna</b>							
AZ504FXH	144/430MHz (2m/70cm)	2.15dBi (430MHz)	50W FM (Total)	0.40m	65g	MP	1/4λ(144MHz), 1/2λradialless (430MHz)
AZ504FX	144/430MHz(2m/70cm)	2.15dBi(430MHz)	50W FM (Total)	0.39m	70g	MP	1/4λ(144MHz),1/2λ radialless(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
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)
AZ504SP	144/430MHz (2m/70cm)	2.15dBi (430MHz)	50W FM (Total)	0.39m	80g	MP	1/4λ(144MHz), 1/2λradialless (430MHz)
AZ505SP	144/430MHz (2m/70cm)	3.8dBi (430MHz)	50W FM (Total)	0.47m	85g	MP	1/4λ(144MHz), 6/8λC-Load radialless (430MHz)
AZ506SP	144/430MHz (2m/70cm)	2.15dBi (144MHz), 4.5dBi (430MHz)	50W FM (Total)	0.67m	113g	MP	3/8λ(144MHz), 3/4λ(430MHz)
AZ507RSP	144/430MHz (2m/70cm)	2.15dBi (144MHz), 4.9dBi (430MHz)	50W FM (Total)	0.75m	133g	MP	1/2λradialless(144MHz), 2x5/8λradialless (430MHz)
AZ510FM	144/430MHz(2m/70cm)	2.15dBi(144MHz),5.5dBi(430MHz)	50W FM (Total)	0.95m	120g	MP	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)
AZ807M/N	144/430/1200MHz(2m/70cm/23cm)	2.15dBi (144MHz), 5.0dBi (430MHz), 8.6dBi (1200MHz)	50W FM (Total)	0.79m	130g	MP/NP	1/2λradialless (144MHz), 2x5/8λradialless(430MHz), 4x5/8λradialless (1200MHz)
<b>RHM Series</b>							
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.

\*Impedance:50Ω,VSWR:Less than 1.5

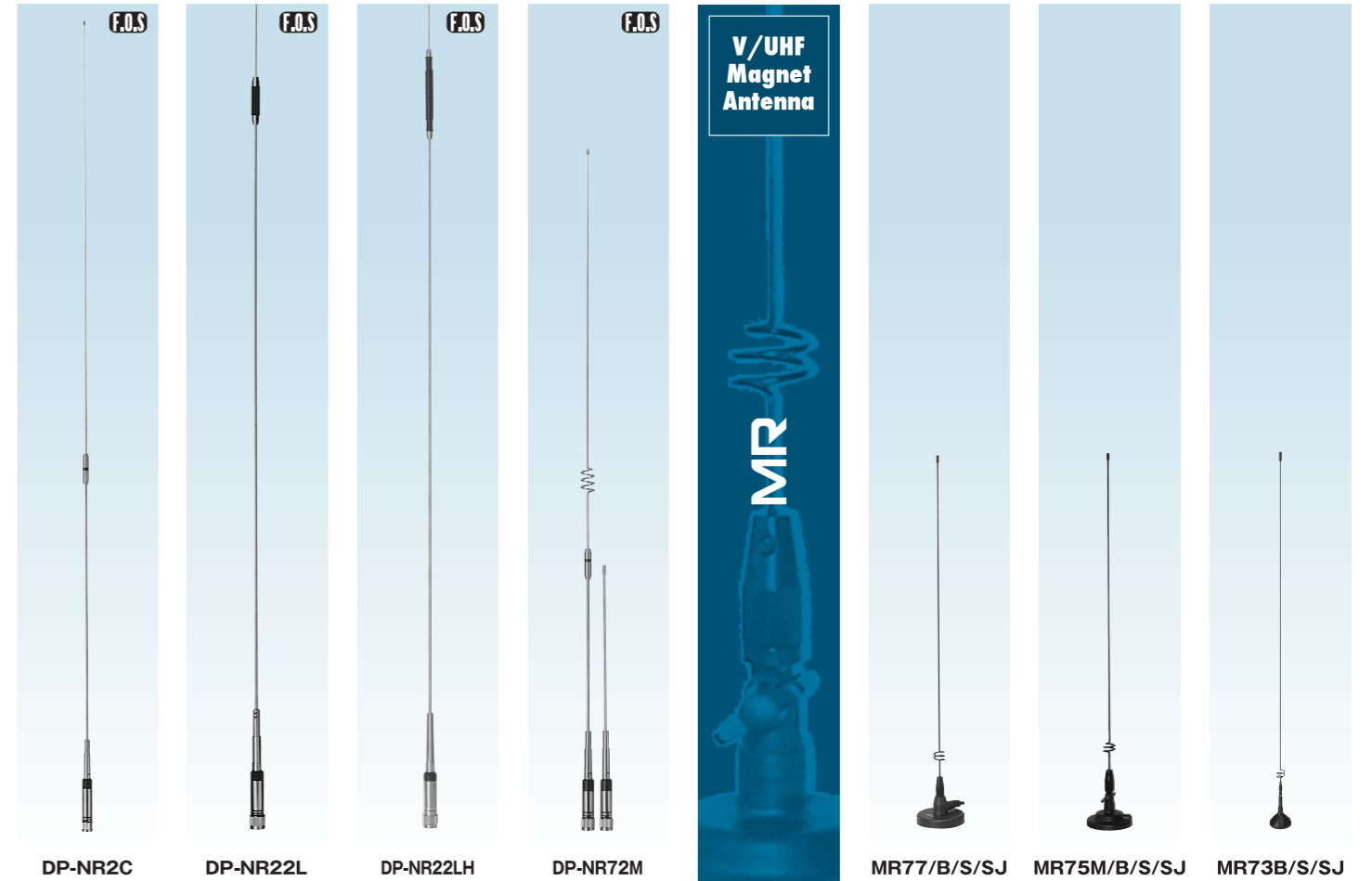
## Amateur radio antennas

### V/UHF Mobile Whip Antenna

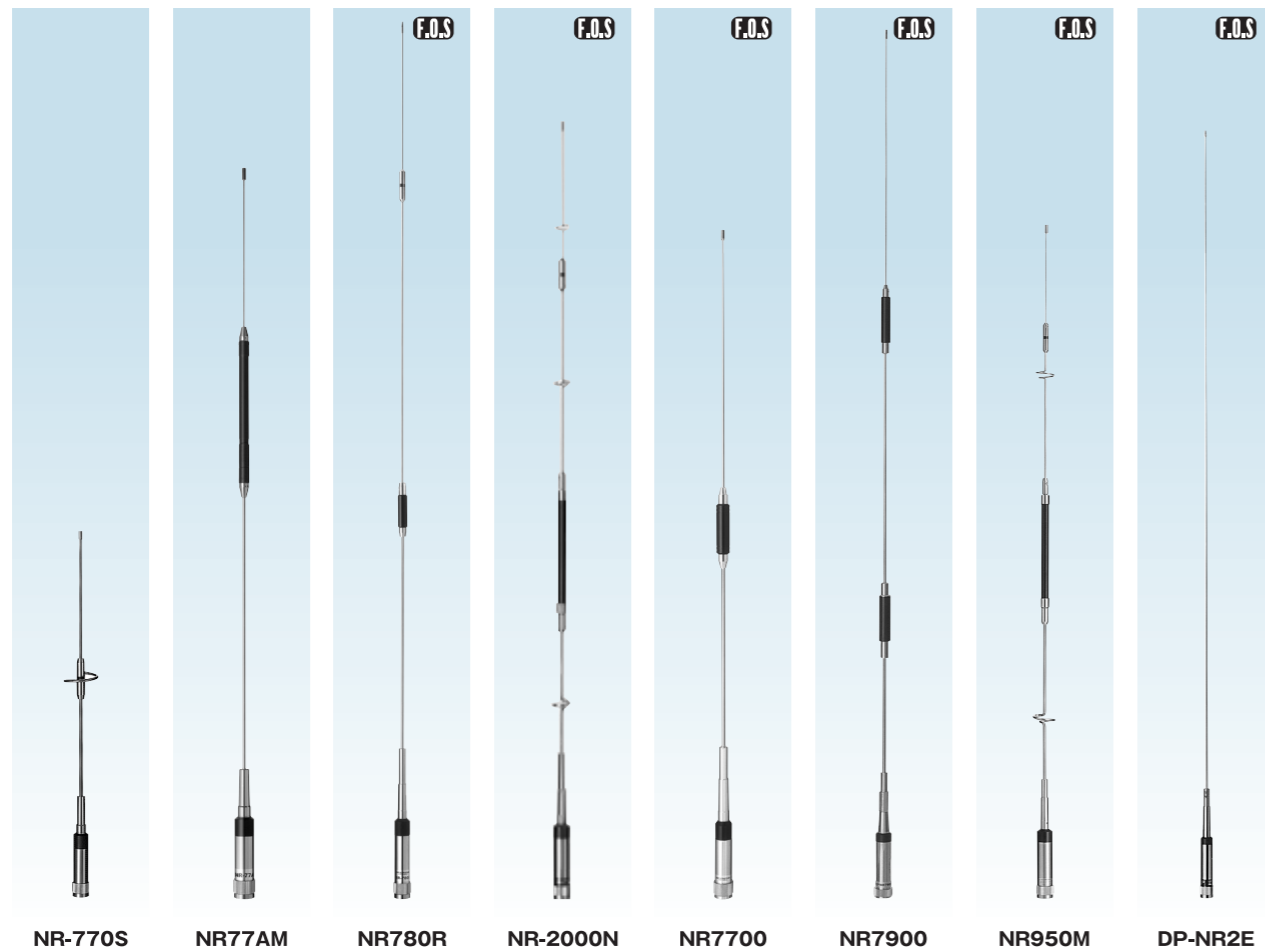


## Amateur radio antennas

### V/UHF Magnet Antenna



NR



Model	Frequency	Gain	Max. power rating	Length	Weight	Connector	Type
<b>NR V/UHF Mobile Whip Antenna</b>							
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)
NR770RB	144/430MHz(2m/70cm)	3.0dBi(144MHz), 5.5dBi(430MHz)	200W FM (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 λ radialless (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)
NR770HSP	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 λ C-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)
NR7900	144/430MHz(2m/70cm)	3.7dBi(144MHz), 6.4dBi(430MHz)	300W(144MHz), 250W(430MHz)	1.46m	700g	MP	6/8λ C-Load radialless(144MHz), 3x5/8λ C-Load radialless(430MHz)
NR950M	144/430/900MHz(2m/70cm/33cm) 150/300/450/900MHz 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-NR2E	144MHz(2m)	2.15dBi	200W	1.08m	150g	MP	1/2λ radialless
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
DP-NR72M	430MHz(70cm)	5.5dB(2x5/8λ), 2.15dBi(1/2λ)	150W	0.98m(2x5/8λ), 0.38m(1/2λ)	200g	MP	2x5/8λ radialless(Full Elements), 1/2λ radialless(Lower Element only)
<b>V/UHF Magnet Antenna</b>							
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

\*Impedance:50Ω, VSWR:Less than 1.5

**HF Mobile Whip Antenna**



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

MD200

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)

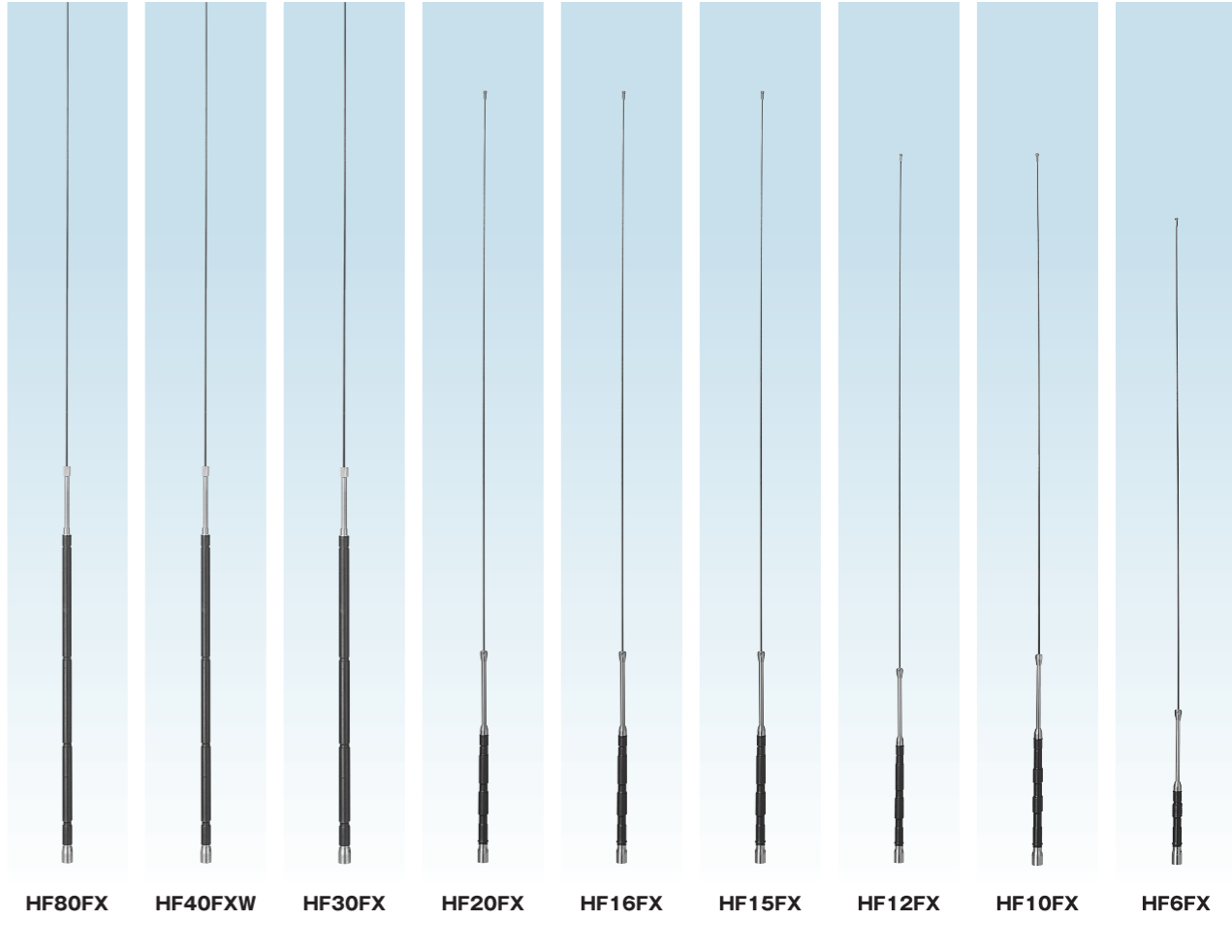
**Magnet Antenna Grounding Sheet**



**MAT 50**  
 MAGNET ANTENNA GROUNDING SHEET

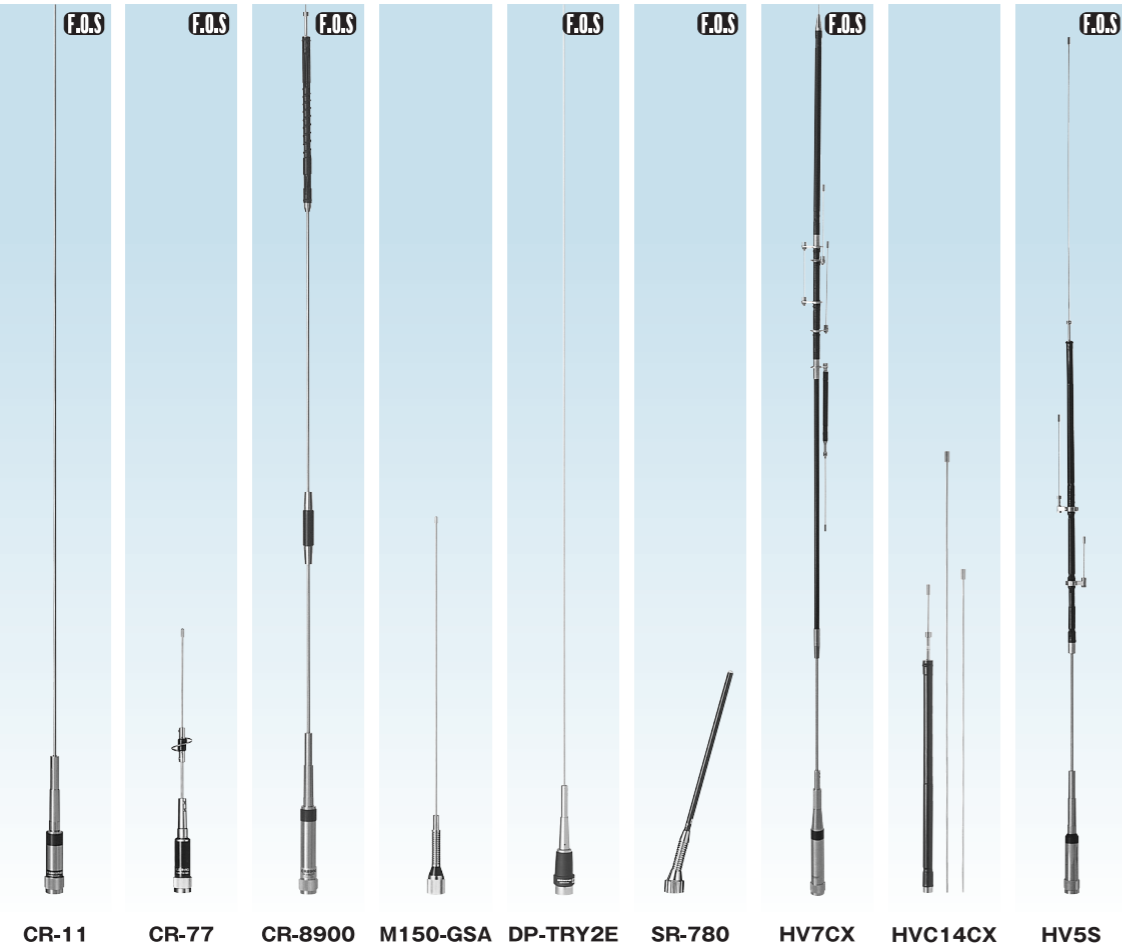
Frequency:7-50MHz  
 (3.5MHz BY USING TWO SHEETS)  
 Max power rating:  
 500W(SSB)  
 200W(FM/CM)  
 Ambient temperature:  
 -20C to +90C  
 Adhesive performance:  
 110km/h (with no wind)  
 Dimensions:  
 80mm x 195mm (sheet size)  
 Cable length:  
 approx. 30cm  
 Weight:55g  
 Accessory:  
 16mm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

**HF/VHF Mobile Whip Antenna**



HF80FX HF40FXW HF30FX HF20FX HF16FX HF15FX HF12FX HF10FX HF6FX

**HF/V/UHF Mobile Whip Antenna**



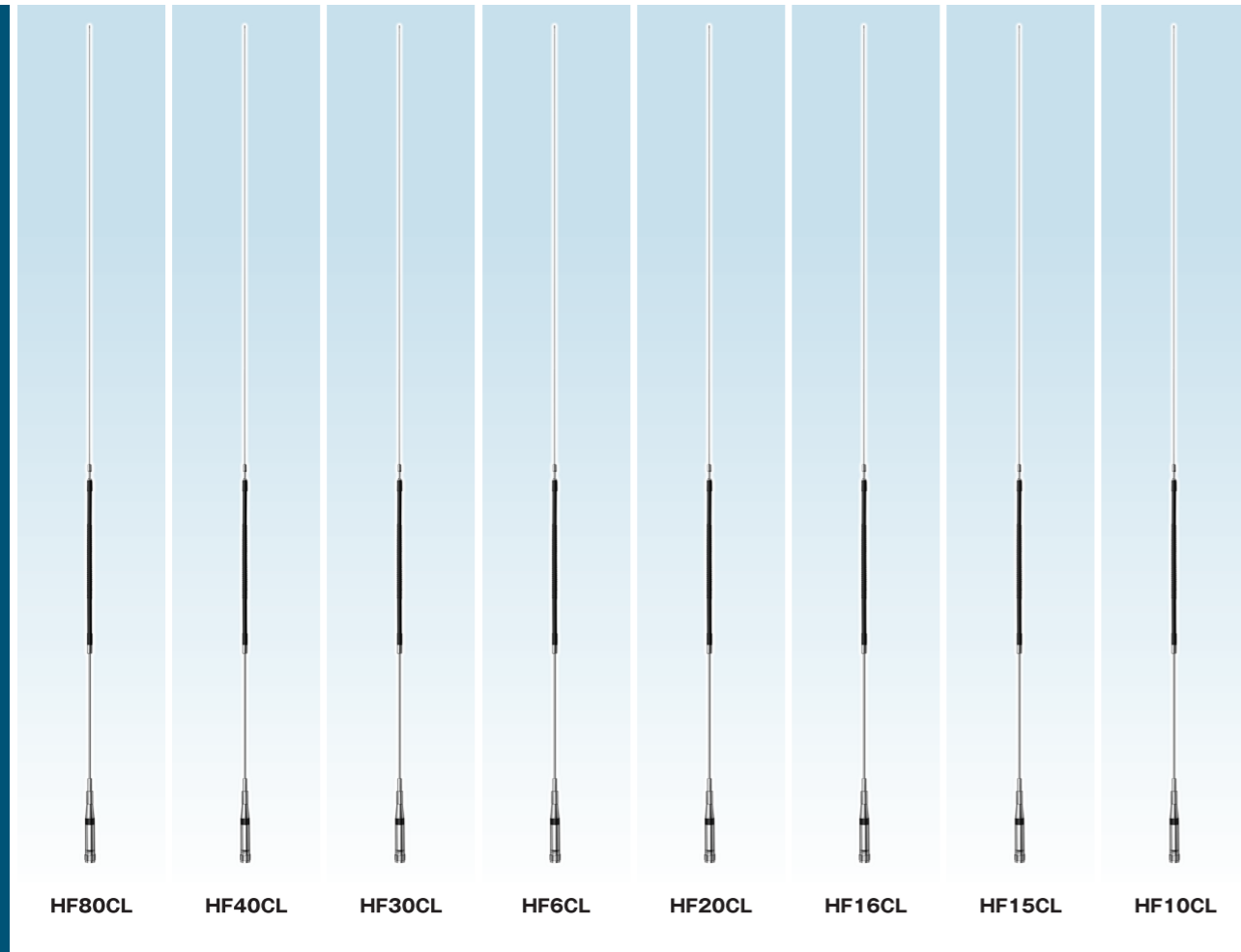
CR-11 CR-77 CR-8900 M150-GSA DP-TRY2E SR-780 HV7CX HVC14CX HV5S

Model	Frequency	Gain	Max. power rating	Length	Weight	Connector	Type
<b>HF&amp;V/UHF Mobile Whip Antenna</b>							
CR-11	26 to 28MHz	—	200W	1.65m	360g	MP	1/4λ
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), 3.4dBi(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)
<b>HF/VHF Mobile Whip Antenna</b>							
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

HF/VHF  
Center  
Loading  
Mobile Antenna

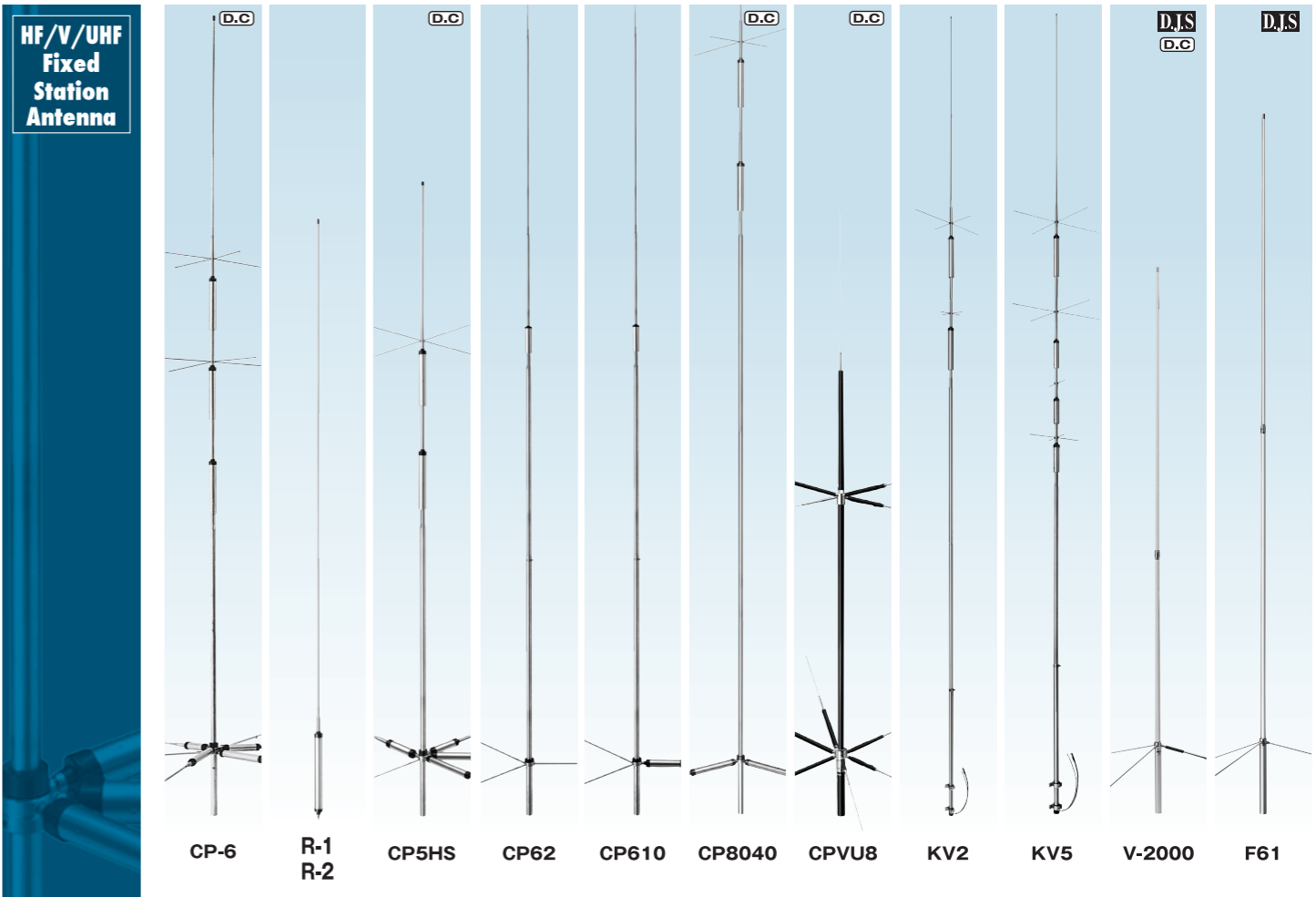


Model	Frequency	Gain	Max.power rating	Length	Weight	Connector	Type
<b>HF/VHF Center Loading Mobile Antenna</b>							
HF80CL	3.5MHz (80m)	-	120W(SSB), 40W(FM)	2.22m	590g	MP	1/4 wave center loading
HF40CL	7MHz (40m)	-	200W(SSB), 70W(FM)	2.2m	590g	MP	1/4 wave center loading
HF30CL	10MHz(30m)	-	200W(SSB), 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

HF/V/UHF  
Fixed  
Station  
Antenna

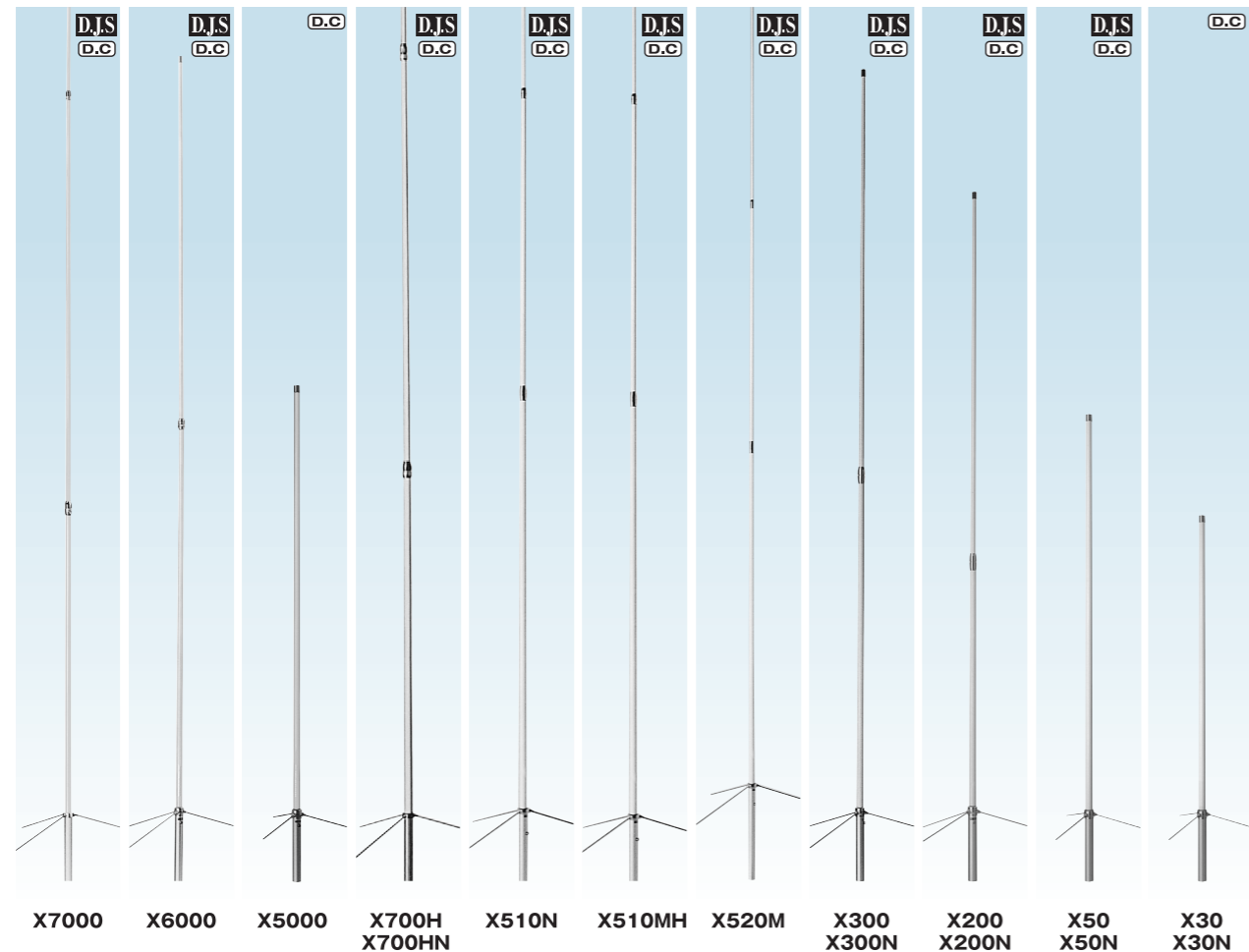


Model	Frequency	Gain	Max. power rating	Length	Radial Length	Weight	Rated wind velocity	Mast diameter accepted	Connector	Type
<b>HF/V/UHF Fixed Station Antenna</b>										
CP-6	3.5/7/14/21/28/50MHz (80m/40m/20m/15m/10m/6m)	-	200W(SSB)	4.6m	approx. 1.8m	4.9kg	40m/sec.	30-62φ	MJ	6 band trap vertical antenna 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)	2.0W SSB(7MHz), 40W SSB(14-21MHz), 50W SSB(28-29-50 MHz)	200W (SSB), 200W (FM)	3.6m	1.8m	3.4kg	45m/sec.	30-62φ	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.	30-62φ	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.	30-62φ	MJ	5/8λ(28MHz), 2x5/8λ(50MHz)
CP8040	3.5/7MHz (80m/40m)	-	200W(SSB)	approx. 6.53m	approx. 1.8m	4.1kg	35m/sec.	30-62φ	MJ	2 bands GP, One direction style radial elements
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.	30-62φ	MJ	8 bands GP
KV2	3.5/7MHz (80m/40m)	-	250W SSB(3.5MHz), 500W SSB(7MHz)	6.14m	-	2.65kg	35m/sec.	30-62φ	MJ	2 bands vertical antenna
KV5	3.5/7/14/21/28/29 MHz (80m/40m/20m/15m/10m)	-	500W SSB (7/14/21/28/29MHz), 250W SSB(3.5MHz)	5.8m	-	4.9kg	35m/sec.	30-62φ	MJ	5 bands vertical antenna
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.	30-62φ	MJ	1/2λ C-Load(50MHz),2x5/8λC-Load(144MHz), 4x5/8λ C-Load(430MHz)
F61	50MHz(6m)	2.7dBi	150W(SSB)	3.2m	-	1.4kg	50m/sec.	30-62φ	MJ	5/8λ FRP outershell

\* Impedance : 50Ω, VSWR : Less than 1.5

## Amateur radio antennas

### V/UHF Fixed Station Antenna

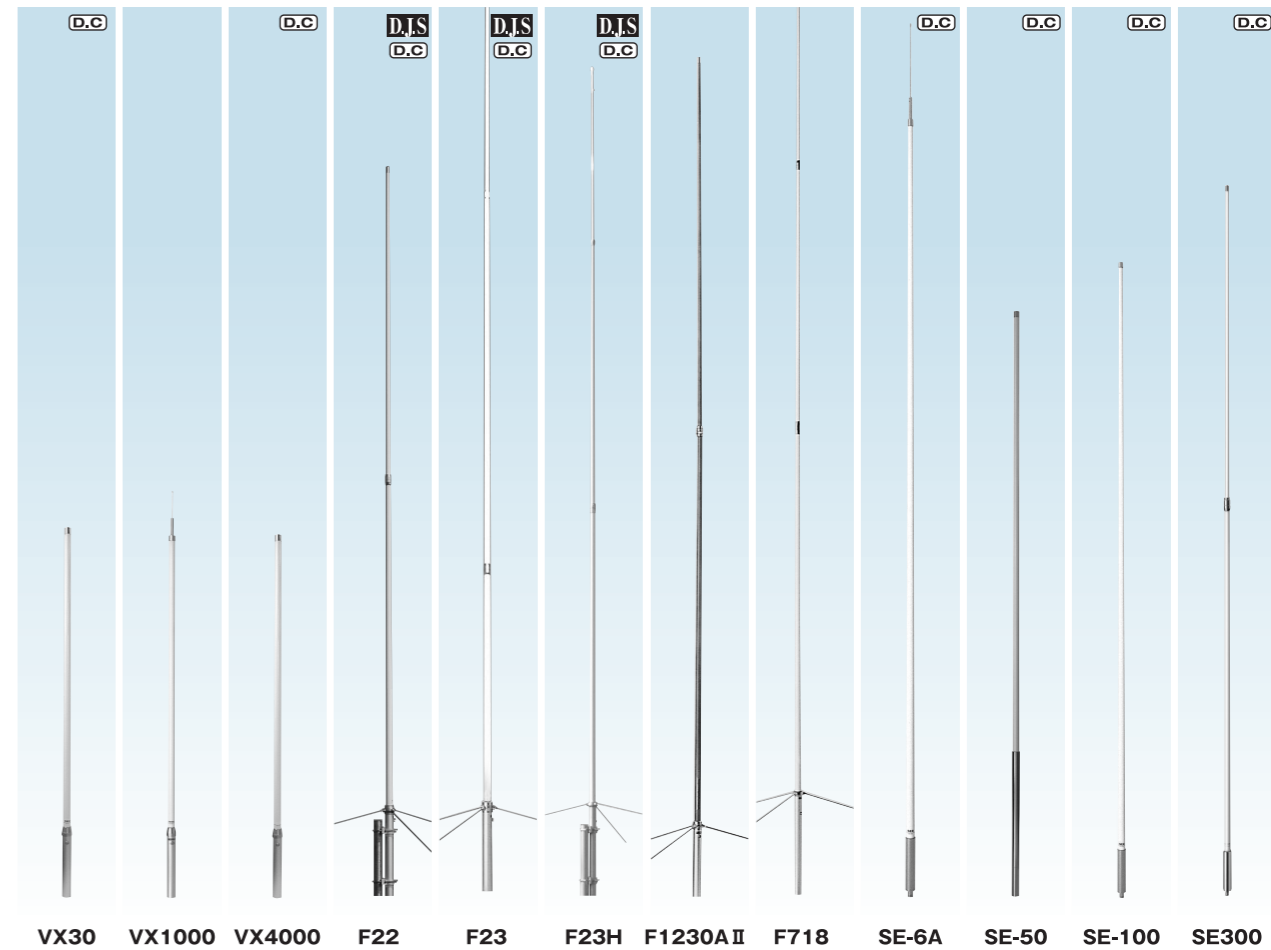


Model	Frequency	Gain	Max. power rating	Length	Radial length	Weight	Rated wind velocity	Mast diameter accepted	Connector	Type
<b>V/UHF Fixed Station Antenna</b>										
X7000	144/430/1200MHz (2m/70cm/23cm)	8.3dB(144MHz), 11.7dB(430MHz), 13.7dB(1200MHz)	100W(144/430MHz), 60W(1200MHz), 100W(Total)	5.0m	approx. 52cm	2.2kg	40m/sec.	30-62 φ	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.	30-62 φ	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.	30-62 φ	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.	★30-62 φ	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.	30-62 φ	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.	30-60 φ	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.	30-60 φ	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.	30-62 φ	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.	30-62 φ	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.	30-62 φ	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.	30-62 φ	MJ/NJ	1/2λ(144MHz), 2 x 5/8λ(430MHz), FRP outershell

★More than 45 φ diameter mast is recommended.  
\* Impedance : 50Ω, VSWR : Less than 1.5

## Amateur radio antennas

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

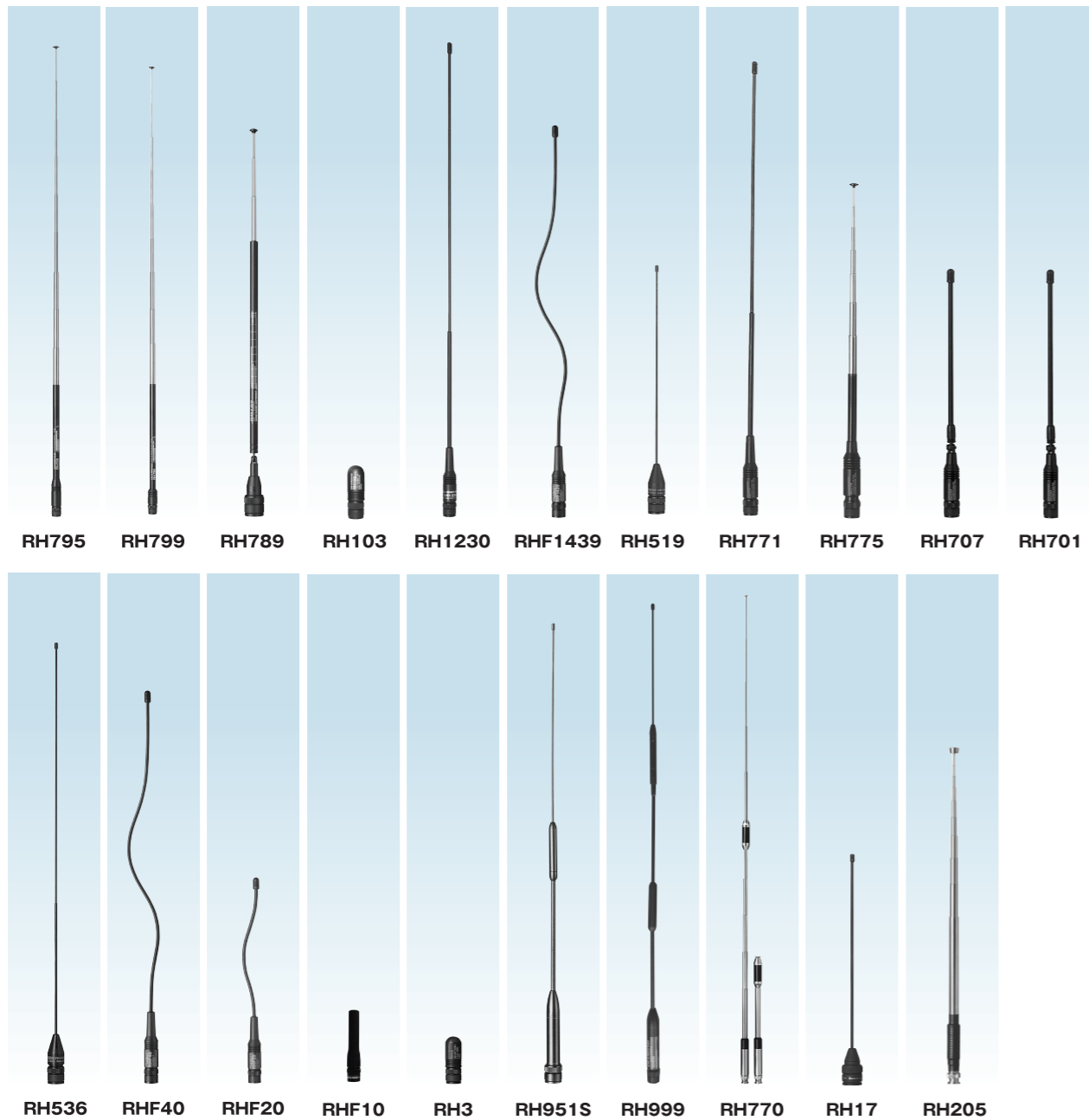


Model	Frequency	Gain	Max. power rating	Length	Radial length	Weight	Rated wind velocity	Mast diameter accepted	Connector	Type
<b>HF/V/UHF Fixed Station Antenna</b>										
VX30	144/430MHz (2m/70cm)	2.15dBi(144MHz), 5.5dBi(430MHz)	150W (Total)	1.3m	—	0.7kg	60m/sec.	30-62φ	MJ	1/2λ radialless(144MHz), 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.	30-62φ	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.	30-62φ	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.	30-62φ	MJ	omnidirectional 2x7/8λ, FRP outershell
F23	144MHz(2m)	7.8dB	200W	4.6m	approx. 52cm	1.7kg	50m/sec.	30-62φ	MJ	omnidirectional 3x5/8λ, FRP outershell
F23H	144MHz(2m)	7.8dB	350W	5.2m	approx. 50cm	2.0kg	40m/sec.	30-62φ	MJ	omnidirectional 3x5/8λ, FRP outershell
F1230AII	1200MHz(23cm)	13.5dBi	100W	3.06m	approx. 62cm	1.15Kg	40m/sec.	30-62φ	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.	30-60φ	NJ	18x1/2λ, FRP outershell
<b>HF/V/UHF Marine Fixed Station Antenna</b>										
SE6A	50MHz(6m)	2.15dBi	200W (SSB), 60W (FM)	2.5m	—	2.2kg	60m/sec.	25-100φ	MJ	1/2λ radialless
SE50	144/430MHz (2m/70cm)	4.5dB(144MHz), 7.2dB(430MHz)	100W	2.0m	—	0.8kg	60m/sec.	30-62φ	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.	25-100φ	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.	30-62φ	MJ	2x5/8λ radialless C-Load(144MHz), 5x5/8λ radialless C-Load(430MHz)

\*Impedance:50Ω, VSWR:Less than 1.5

## Amateur radio antennas

HF/V/UHF  
Hand Held  
Antenna  
(BNCP)



RH795 RH799 RH789 RH103 RH1230 RHF1439 RH519 RH771 RH775 RH707 RH701

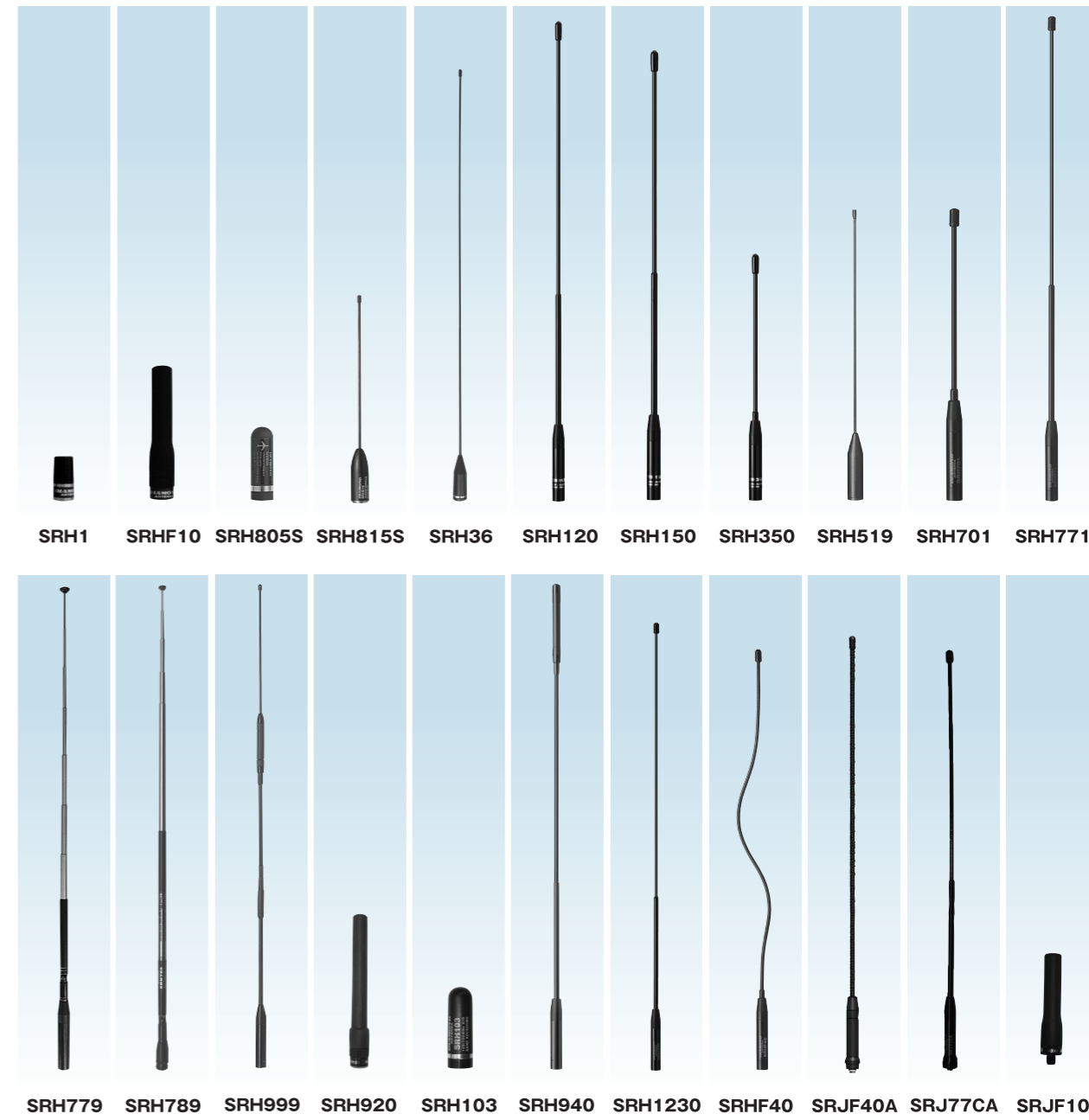
RH536 RHF40 RHF20 RHF10 RH3 RH951S RH999 RH770 RH17 RH205

Model	Frequency	Gain	Max. power rating	Length	Weight	Connector	Type
<b>HF/V/UHF Hand Held Antenna (BNCP)</b>							
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
RH103	120MHz/300MHz Air bands receiving only	—	—	4.5cm	18g	BNC-P	1/4 λ
RH1230	120MHz/300MHz Air bands receiving only	2.15dBi(300MHz)	—	4.8cm	47g	BNC-P	1/4 λ(120MHz), 1/2 λ(300MHz)
RHF1439	139/399MHz	2.15dBi(399MHz)	—	40.5cm	40g	BNCP(including BNC->SMAP connector)	1/4 λ(139MHz), 1/2λ radialless(399MHz)
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), 1/2 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
RH701	144/430MHz(2m/70cm)	—	10W	21cm	30g	BNC-P	1/4λ(144/430MHz), 120/150/300/450/800/900MHz for receiving only
RH536	144/430MHz(2m/70cm)	2.15dBi	10W	36cm	15g	BNCP	1/4λ(144/430MHz), 1/2λ radialless(430MHz), 120/150/300/450/800/900MHz for receiving only, super flexible alloy element
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
RHF20	144/430MHz(2m/70cm)	—	10W	21.5cm	30g	BNCP(including BNC->SMAP connector)	1/4λ(144/430MHz), 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	1/4 λ (144/430/1200MHz), 120/150/300/450/800/900MHz for receiving only
RH951S	144/430/1200MHz(2m/70cm/23cm)	2.15dBi(430MHz), 5.5dBi(1200MHz)	10W	35cm	30g	BNC-P	1/4 λ (144MHz), 1/2 λ (430MHz), 2x5/8 λ (1200MHz), 120/150/300/450/800/900MHz for receiving only
RH999	50/144/430/1200MHz (6m/2m/70cm/23cm)	2.15dBi(430MHz), 5.5dBi(1200MHz)	10W	51.5cm	65g	BNCP(with SMAP-BNCP conversion)	1/4 λ (50/144MHz), 1/2 λ (430MHz), 2x5/8 λ (1200MHz), AM/FM/120/150/300/450/900MHz for receiving only
RH770	144/430MHz(2m/70cm)	3.0dBi(144MHz), 5.5dBi(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	5/8 λ (full length), 1/4 λ (retracted),telescopic whip antenna

\*Impedance:50Ω

## Amateur radio antennas

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



SRH1 SRHF10 SRH805S SRH815S SRH36 SRH120 SRH150 SRH350 SRH519 SRH701 SRH771

SRH779 SRH789 SRH999 SRH920 SRH103 SRH940 SRH1230 SRHF40 SRJF40A SRJ77CA SRJF10

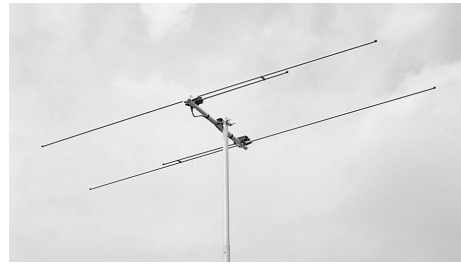
Model	Frequency	Gain	Max. power rating	Length	Weight	Connector	Type
<b>V/UHF Hand Held Antenna (SMAP)</b>							
SRH1	144MHz (2m)	—	5W	2.5cm	10g	SMA-P	1/4λ, Air band/150/300/450MHz receiving only
SRHF10	144/430MHz (2m/70cm)	—	6W	7.5cm	20g	SMA-P	1/4λ, Air band/150/300/450/800/900MHz receiving only
SRH805S	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
SRH120	120MHz VHF Air bands receiving only	—	—	40cm	40g	SMA-P	1/4λ
SRH150	150MHz receiving only	—	—	35cm	37g	SMA-P	1/4λ
SRH350	350MHz receiving only	—	—	20cm	27g	SMA-P	1/4λ
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), 120/150/300/450/800MHz for receiving only
SRH771	144/430MHz(2m/70cm)	2.15dBi(430MHz)	10W	40cm	38g	SMA-P	1/4λ(144MHz), 1/2λ (430MHz), 120/150/300/450/800MHz for receiving only
SRH779	144/430MHz(2m/70cm)	2.15dBi(430MHz)	10W	44cm(full length), 16cm(retracted) 8 stages	38g	SMA-P	FM/120/150/300/450/800/900MHz for receiving only
SRH789	95MHz to 1100MHz	2.15dBi(95 to 300MHz), 3.2dBi(300 to 1100MHz)	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(430MHz), 5.5dBi(1200MHz)	10W	50cm	55g	SMA-P	1/4λ(50/144MHz), 1/2λ(430MHz), 2x5/8λ(1200MHz), FM/Air band/150/300/450/800/900MHz 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/150/300/450/800/900MHz 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(430MHz)	10W	40cm	40g	SMA-P	1/4λ(144MHz), 1/2λ radialless(430MHz), 120/150/300/450/800/900MHz receiving only
<b>V/UHF Hand Held Antenna (SMAJ)</b>							
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), 1/2λ radialless (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

\*Impedance:50Ω



Beam Antenna for The Radio Communications

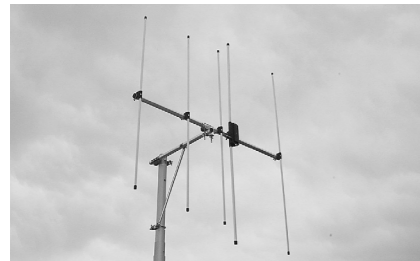
50MHz Beam Antenna



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:(50 to 52MHz without adjustment) / FB ratio : More than 15dB  
Half power band width: Less than 70degrees / Wind surface area:0.14m<sup>2</sup>  
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			
Gain	9.1dBi	11.6dBi	11.5dBi	13.5dBi
Max.power rating	50W		100W	
Impedance	50Ω			
VSWR	Less than 1.3:1			
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			
FB ratio	More than 14dB	More than 15dB	More than 16dB	More than 17dB
Wind surface area	0.1m <sup>2</sup>	0.16m <sup>2</sup>	0.19m <sup>2</sup>	0.31m <sup>2</sup>
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			
Gain	13.1dBi	14.8dBi	15.1dBi	16.8dBi
Max.power rating	50W		100W	
Impedance	50Ω			
VSWR	Less than 1.4:1			
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			
FB ratio	More than 15dB	More than 14dB	More than 15dB	More than 16dB
Wind surface area	0.07m <sup>2</sup>	0.11m <sup>2</sup>	0.14m <sup>2</sup>	0.22m <sup>2</sup>
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



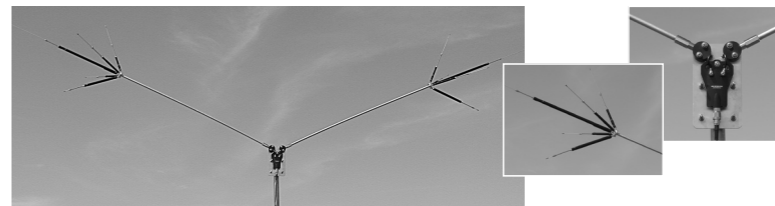
**A1430S7**

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: MJ  
Rated wind velocity: 35m/sec.  
Mast diameter accepted: 25-62φ  
Type: 3-element beam antenna (144MHz), 5-element beam antenna (430MHz)  
Wind surface area: 0.17m<sup>2</sup>  
FB ratio: More than 11.5dB(144MHz), More than 8.0dB (430MHz)  
Turning 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:(Within Resonant frequency band)  
Length:4.0m / Weight:1.95kg  
Mast diameter accepted:25mm to 62mm  
Connector:M-J / Type:Trapped dipole



**HFV8040**

3.5/7MHz (80m/40m)  
Frequency: 3.500-3.805MHz/7.00-7.20MHz  
Max. power rating: 300W (SSB), 100W(FM/CW)  
Length: approx. 10.2m  
Weight: 7.0kg  
VSWR: Less than 1.5 (at resonate frequency)  
Impedance: 50Ω  
Mast diameter accepted: 38-62φ

Rated wind velocity: 35m/sec.  
Turning radius: Approx. 3.6m  
Wind surface area: 0.35m<sup>2</sup>  
Type: Dual band V dipole antenna  
Connector: MJ

**HFVC18**

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

HF Dipole Antenna



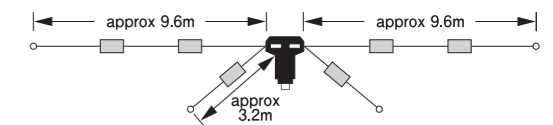
**W-721**

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



**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**

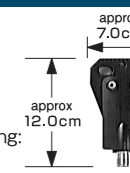
2-30MHz Max. power rating:250W (SSB) Length:approx.6.7m / Weight: 2.3kg / Connector:M-J

Balun



**BU50**

● 1.7 to 40MHz  
● 50Ω  
● Max. power rating: 1.2kW(PEP)  
● Connector:MJ



**BU55**

● 3 to 75MHz  
● 50Ω  
● Max. power rating: 500W(PEP)  
● Connector:MJ

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.

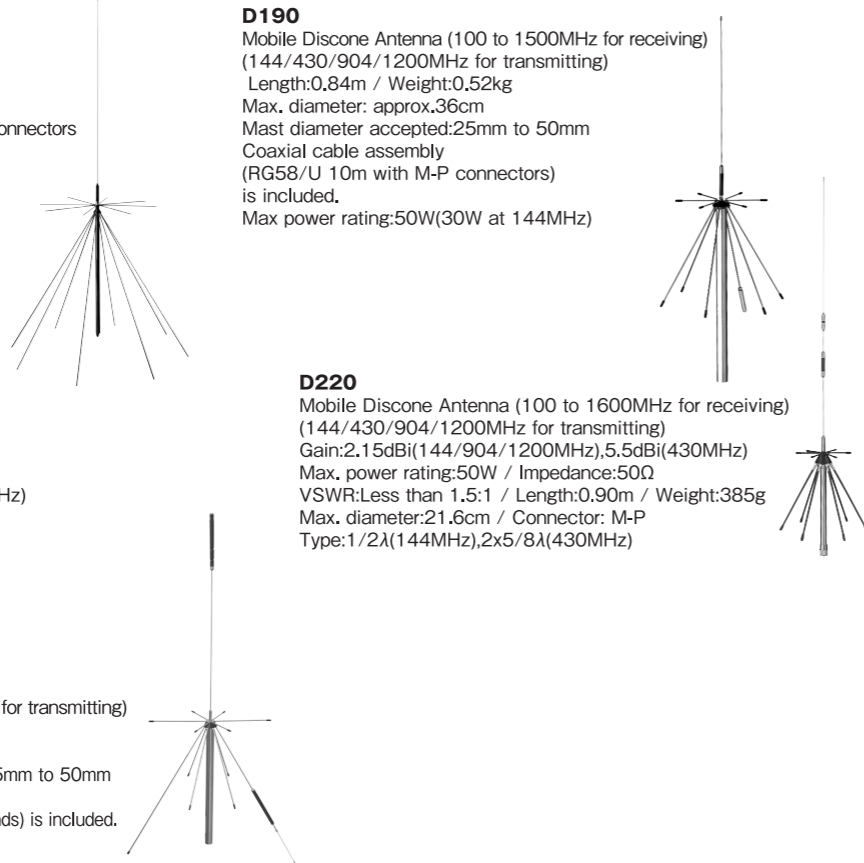
**D1300AM**  
 (25 to 1300MHz for receiving)  
 (50/144/430/904/1200MHz for transmitting)  
 Length:1.7m / Weight:1kg / Max. diameter:84cm  
 Mast diameter accepted:25mm to 50mm  
 Max Power Rating : 20W (50MHz) ,  
 100W (more than 144MHz)

**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 50 mm  
 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)

**D220**  
 Mobile Discone Antenna (100 to 1600MHz for receiving)  
 (144/430/904/1200MHz for transmitting)  
 Gain:2.15dBi(144/904/1200MHz),5.5dBi(430MHz)  
 Max. power rating:50W / Impedance:50Ω  
 VSWR:Less than 1.5:1 / Length:0.90m / Weight:385g  
 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:5/8λ (120MHz),2x5/8λ (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:1/2λ (120MHz) 2x5/8λ (300MHz)

2.4GHz Antenna

**MG200**

Gain:7.0dBi / Impedance:50Ω / VSWR:Less than 1.5:1 / Length:0.6m / Weight:290g  
 Connector:N-P / Type:3x1/2λ coaxial mobile gain whip antenna, FRP outershell

Dummy Load Surge Protector Coaxial Switch

Model	Frequency range	Power rating	Impedance	VSWR	Input Connector	Dimensions
<b>Dummy Load</b>						
<b>DL-50A</b>	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
<b>DL-50N</b>	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



Model	Frequency range	Impedance	Connector	VSWR	Insertion loss	Isolation (output terminated)	Max. power rating	Dimensions (W x H x D)mm	Weight
<b>Surge Protector</b>									
<b>SP1000</b>	DC-1000MHz	50Ω	MJ-MJ	Less than 1.2	Less than 0.3db	—	400W (PEP)	66Wx41Hx20D	80g
<b>SP3000</b>	DC-3000MHz	50Ω	NJ-NJ	Less than 1.2	Less than 0.3db	—	200W (PEP)	78Wx41Hx20D	110g
<b>SP3000P</b>	DC-3000MHz	50Ω	NJ-NP	Less than 1.2	Less than 0.3db	—	400W (PEP)	77Wx41Hx21D	110g
<b>SP1000PW</b>	DC-1000MHz	50Ω	MJ-MP	Less than 1.2	Less than 0.3db	—	400W (PEP)	78Wx55Hx26D	130g
<b>SP3000W</b>	DC-3000MHz	50Ω	NJ-NJ	Less than 1.2	Less than 0.3db	—	200W (PEP)	78Wx55Hx26D	140g
<b>Coaxial Switch</b>									
<b>CX210A</b>	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
<b>CX210N</b>	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
<b>CX310A</b>	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 300MHz), 1KW(30 to 150MHz), 500W(150 to 800MHz)	84Wx95Hmm	575g
<b>CX310N</b>	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 300MHz), 1KW(30 to 150MHz), 500W(150 to 500MHz), 250W(500 to 1000MHz), 150W(1000 to 1500MHz)	84Wx95Hmm	575g

Duplexer & Triplexer



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

SWR/POWER Meter



SX-1100



SX-600/SX-600N



SX-400/SX-400N



SX-200



SX-100



SX27P



SX40C



SX20C



SX240C

Model	Frequency range	Power display rating	Minimum power at SWR measurement	Accuracy of full scale	Insertion loss	Measurement function	Connectors	Display illumination	Powersupply	Dimensions(W×H×D)mm	Weight	Sensor
<b>SWR Power Meter</b>												
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)	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)
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)		MJ/NJ				630g	
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)		—	540g			—	
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)		—	640g			—	
SX100	1.6 to 60MHz	30W 300W 3KW	3W	±10%(F.S)	Less than 0.1dB	—	MJ	—	—	—	—	
<b>Compact SWR Power Meter</b>												
SX27P	140 to 150MHz/ 430 to 450MHz	15W 60W	—	—	Less than 0.3dB	Forward Rf power,SWR	MJ	—	—	64Wx75Hx31Dmm	200g	—
<b>Cross Needle SWR Power Meter</b>												
SX40C	144 to 470MHz	30W 300W	3W	10%AT.FS	—	—	MJ	—	—	85Wx87Hx95Dmm	270g	—
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)	Forward RF power, Reflected RF power,SWR,PFP monitor	—	DC13.8V	170Wx100Hx130Dmm	1.3Kg	—	

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)			

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)			

DC to DC Converter



GZR2000



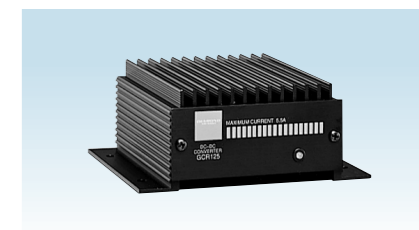
GCM3500



GCR1000



GCR500



GCR125

Battery Back-up Exchange Box For Power supply



MSE9140



MS928

Model	Input Voltage Range	Output Loa Current (Continuous)	Voltage Drop betweenDC 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)	0.4-0.6A	95W×6H×55Dmm	390g

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 circuitBuilt 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

Gutter Mount Antenna Bracket

**K300**  
Tilt angle adjustable  
**SUPER GAINER**

**K301**  
2-axis adjustable  
Compact heavy duty type  
(Tilt angle adjustable mount only)

**K11**  
(Heavy duty type Tilt angle adjustable mount only)

**BL (mount only)**  
Stainless steel

**K311**  
2-axis adjustable  
(Tilt angle adjustable mount only)

**K110**  
(Ultra heavy duty type Tilt angle adjustable mount only)

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**  
Tilt angle adjustable 0 to 9 degrees

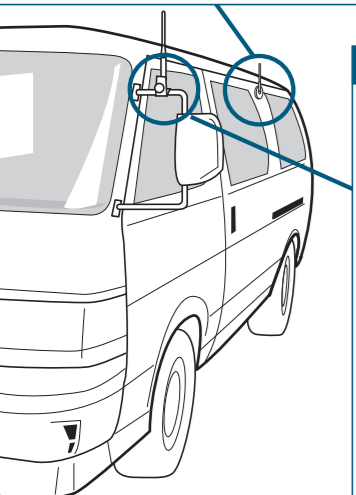
**TE - 5M**  
Tilt angle adjustable 0 to 9 degrees  
Coaxial cable:1.5D-Q-SUPER/5DQ-II  
Connector:MJ-MP

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 P10

Rooftop Carrier / Mirror Stay Mount Antenna Bracket

**SUPER GAINER K540**  
Tilt angle adjustable/mount bracket only  
Mast diameter accepted:15mm to 25mm

**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

**K44**  
Heavy duty type Tilt angle adjustable/mount bracket only  
Mast diameter accepted:15mm to 25mm

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

**K44L**  
Rooftop carrier/ Mirror stay mount antenna bracket  
Heavy duty type  
Tilt angle adjustable/mount bracket only  
Mast accepted: 15-40mm

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

**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:BNCJ-BNCP  
Magnet diameter:76.5mm

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

Bracket for Motor Bike

**KB2**  
(Stainless steel)

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

**K33**  
Tilt angle adjustable/mount bracket only Heavy duty type

**K412**  
3-axis adjustable/mount bracket only

**K413**  
3-axis adjustable/mount bracket only

**K415**  
3-axis adjustable/mount bracket only

**SUPER GAINER K400**  
Tilt angle adjustable/mount bracket only

**SUPER GAINER K402**  
3-axis adjustable/mount bracket only

**K416**  
3-axis adjustable/mount bracket only

Rooftop 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**  
Without cable assembly  
Recommend cable assembly:3D 5D type cable assemblies(optional)

**K3000**  
Usable antenna specification  
Length: Less than 1.85m  
Weight: Less than 1.1kg  
Production weight: 1.5kg


●Quick Joint Mobile Cable Assembly



Model	1.5D-Q·SUPER+5DQ- II	Connector
2.5m TYPE	S255MM 0.5m+2.0m	MLJ-MP
4m TYPE	S405MM 0.5m+3.5m	MLJ-MP
	S410MM 1.0m+3.0m	MLJ-MP
	S415MM 1.5m+2.5m	MLJ-MP
5m TYPE	S505MM 0.5m+4.5m	MLJ-MP
	S510MM 1.0m+4.0m	MLJ-MP
	S515MM 1.5m+3.5m	MLJ-MP
	S510MN 1.0m+4.0m	MLJ-NP
	S510NN 1.0m+4.0m	NLJ-NP
6m TYPE	S615MM 1.5m+4.5m	MLJ-MP
7m TYPE	S715MM 1.5m+5.5m	MLJ-MP

Diameton (mm)  
1.5D-Q·SUPER 3.0mm  
5DQ-II 7.5mm

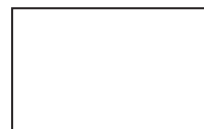
●Mobil Cable Assembly



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

Diameton (mm)  
1.5D-Q·SUPER 3.0mm  
5DQ-II 7.5mm

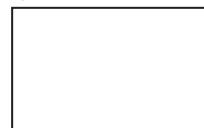
●Coaxial Cable Set for Base Antenna



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


Diameton (mm)  
5D-2V 5D-FB 7.5mm  
5DQ-II 7.5mm

●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	
5DQ-II 7.5mm	5DQ4MR 5DQ- II 4m	MLJ-MP	
	5DQ5MR 5DQ- II 5m	MLJ-MP	
	5DQ6MR 5DQ- II 6m	MLJ-MP	
	5D4MR 5D-2V4m	MLJ-MP	
5D-2V 7.3mm	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

●Joint Cable for Antenna Side



Model	Length
ML50	50cm TYPE
ML100	1m TYPE
ML150	1.5m TYPE
NL100	1m TYPE
ML200	2m TYPE
ML250	2.5m TYPE

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

Portable Telescopic Antenna Mast

AM450

Length: approx. 1.4m (minimum) to approx. 4.5m (maximum)  
Weight: Approx. 1.2kg  
Pipe diameter: φ22mm(upper)-φ31mm(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: φ22mm(upper)-φ34mm(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.

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 8Ω  
With Noise Filter  
With magnetic bracket  
Mute switch (-8dB)  
Max. input: 6w  
Dimention:142Wx113Hx57Dmm



P810A

Built-in amplifier with volume control  
Built-in noise filter  
Speaker:77mm 8Ω  
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 8Ω  
Max. input:6W /  
Dimensions:113Wx93Hx43Dmm  
Magnet bracket is included



P710

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



P610

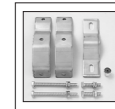
Speaker:57mm 80ohms  
Max. input:5W  
Dimensions:75Wx69Hx31Dmm  
Magnet bracket and DC cable 3m with 3.5mm plug are included

Mast Bracket



S-1

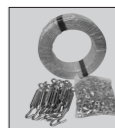
Zinc diecast  
Mast diameter accepted:30mm to 60mm  
Max. antenna load must be less than 2m in total length and less than 1.0kg in total weight.



S-3

Stainless steel  
Antenna diameter accepted:22mm to 40mm  
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

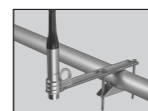
3mm stay wire 120m,  
wire clips 36 pieces

Mast Base for Mobile Tire

TMB

Possible Mount Mast Diameter : φ25-50  
Possible Mount Weight: 10kg  
(including the mast weight)  
Dimension: 185Wx535Lx420Hmm  
Weight: 6.65kg

Balcony Railing Bracket for Inatslling A Mobile Antenna



BK10

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

BK45

Weight: Less than 3.5m,  
Less than 2kgs  
Installation possibility pipe size  
Circle pipe: φ22-φ62mm , Corner pipe: 62 x 50 mm  
Pipe size: L type 450mm x 350mm φ32 (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: 50Ω, Connector: MJ-MJ  
Cable length: approx. 50cm (between connectors), Weight: 102g

Common Mode Filter

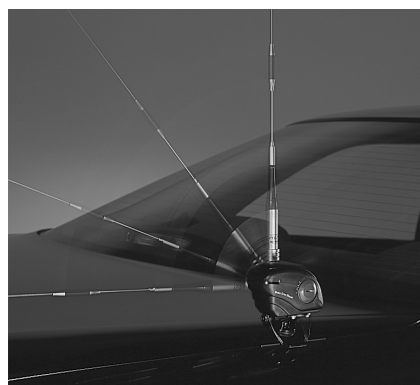
CMF2000

Frequency: 1 to 54MHz  
Max. power rating: 2kW (SSB)  
Common mode attenuation: More than -50dB (MAX)  
Insertion loss: Less than 0.2dB  
Impedance: 50Ω  
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: 50Ω  
VSWR: Less than 1.2  
Length: 415mm  
Weight: 1,180g  
Connector: MJ (both sides)

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.

- 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



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  
Remarks:RoHS COMPLIANT



**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: 86Wx25Hx64Dmm  
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



**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



**DP-MRX**  
Coaxial cable: RG58A/U 3m  
Connctor: BNCJ-BNCP  
Magnet diameter: 76.5mm

Accessory for Handheld Transceivers

**DEH7M/K/S/V:Earphone**  
DEH 7M 3.5φ Single plug type for ICOM, YAESU, STANDARD, ALINCO  
DEH 7K 2.5φ Single plug type for KENWOOD  
DEH 7S 3.5φ 4 Pole type (water proof),one plug for STANDARD  
DEH 7V 3.5φ 4 Pole type,one plug for ICOM, YAESU, STANDARD  
Frequency range:100MHz to 2000MHz  
In put Earphone:15mW(MAX)  
Impedance: 32Ω / Cable length:1.5m(M/K),1.0m(S/V)



**DEH17M/K/S/V:Earphone**  
DEH17M 3.5φ L-plug For ICOM, YAESU, STANDARD, ALINCO  
DEH17K 2.5φ L-plug For KENWOOD  
DEH17S 3.5φ 4 poles straight plug, waterproof For STANDARD  
DEH17V 2.5φ 4 poles I-plug For ICOM, YAESU, STANDARD  
Frequency range:20Hz to 3500Hz  
In put Earphone:5mW (MAX)  
Impedance:32Ω  
Weight:20g Cable Length:1.0m



**HE37:Earphone**  
Soft earplug type  
For ICOM, YAESU, STANDARD / Frequency:20 to 4000Hz /  
Power:500mW (Max) / Impedance:8Ω  
Earphone:Magnetic earphone / Code: Twist type, approx.1m /  
Connector:3.5mm straight plug



**HE47M/K/P:Earphone**  
HE47M 3.5φ L plug for ICOM, YAESU, STANDARD, ALINCO  
HE47K 2.5φ L plug for KENWOOD  
HE47P 3.5φ Straight plug for (ICOM, YAESU, STANDARD)  
Frequency range:20Hz to 4500Hz  
In put Earphone:300mW(MAX) / Impedance: 8Ω /  
Cable length:1.0m



**HE57M/K/S/V:Earphone**  
HE57M 3.5φ 1 plug type for ICOM, YAESU, STANDARD, ALINCO  
HE57K 2.5φ 1 plug type for KENWOOD  
HE57S 3.5φ 4 pole type, waterproof, one plug for STANDARD VX6/VX7  
HE57V 3.5φ 4 pole type, one plug for ICOM, YAESU, STANDARD  
In-Put Earphone:80mW(MAX), Impedance:32Ω  
Weight:20g, Cable Length:75cm



**HE77M/K:Earphone**  
HE77M 3.5φ1plug type for ICOM, YAESU, STANDARD, ALINCO  
HE77K 2.5φ1plug type for KENWOOD  
Frequency: 300Hz-20KHz  
In-put Earphone: 40mW (MAX), Impedance: 32Ω  
Weight: 20g, Cable length: 1.1m (MAX)



**HE87M/K:Earphone**  
HE77M φ3.5mm, 2 plug for ICOM, STANDARD, YAESU, ALINCO  
HE77K φ2.5mm, 2 plug for KENWOOD  
Weight:20g / Code length:50cm (Max)  
Frequency:300Hz-20KHz, IN-PUT earphone:80mW (Max)  
Impedance:32Ω



**MS800M/K/S/ID/L/V: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 type for ICOM  
MS800V 1 plug L type for ICOM, YAESU, STANDARD  
In-Put Speaker: 500mW (MAX) 8Ω  
Microphone: ECM TYPE, 2.2kΩ  
Microphone Sensibility: -40±2dB  
Cable length: approx. 2.0m, Weight: 105g



**MS900WID/KD/VD:Speaker Microphone**  
MS900WID Special plug for ICOM IC-DPR5  
MS900WKD Special plug for KENWOOD TPZ-D503  
MS900WVD Special plug for VERTEX STANDARD VXD-10  
Weight:150g  
Speaker-PUT: 1W (Max)  
Impedance: 8Ω  
Microphone: 2.2kΩ ECM type  
Microphone sensibility: -40±2dB  
Code length: 1.5m (Max)  
Remarks: Waterproof type



**EM12M/K/S/V:Earphone Microphone**  
EM12M 2 plugs straight type for ICOM, YAESU, STANDARD, ALINCO  
EM12K 2 plugs L type for KENWOOD  
EM12S 1 plug waterproof for STANDARD  
EM12V 1 plug L type for ICOM, YAESU, STANDARD  
IN-PUT EARPHONE:20mW (MAX) 32Ω  
Microphone:ECM TYPE, 2.2kΩ, Microphone Sensibility:-40dB±2dB  
Weight:30g, Cable Length:110 cm



**EM13M/K/S/V:Earphone Microphone**  
EM13M 2 plugs straight type for ICOM, STANDARD, ALINCO  
EM13K 2 plugs L type for KENWOOD  
EM13S 1 plug waterproof for STANDARD  
EM13V 1 plug L type for ICOM, YAESU, STANDARD  
In-Put Earphone:80mW (MAX)32Ω, Microphone:ECM Type:2.2kΩ  
Microphone Sensibility:-56dB ± 2dB, Weight:35g, Cable Length:110cm



**EM14M/K/S/ID/L:Earphone Microphone**  
EM14M 2 plugs straight type for ICOM, STANDARD, ALINCO  
EM14K 2 plugs L type for KENWOOD  
EM14S 3.5φ 4 pole type, waterproof one plug for STANDARD  
EM14ID Special plug for ICOM  
EM14L 2 plugs L type for ICOM  
In-Put Earphone: 4mW (MAX) 32Ω  
Microphone: ECM TYPE, 2.2kΩ, Microphone Sensibility: -36±3dB  
Cable length: approx. 1.9m, Weight: 30g



**EMP300M/K:Head Set**  
EMP300M 2 plugs for ICOM/STANDARD/YAESU/ALINCO  
EMP300K 2 plugs for KENWOOD  
Weight:55g / Code length:1.35m (Max)  
Speaker (earphone) In-put: 200mW (Max) 64Ω  
Microphone: 2.2kΩ Condenser Mic, Microphone sensibility: -36±3dB



EM Series plug



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

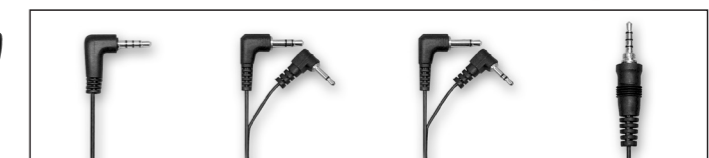
**DEM10V/M/K:Earphone Microphone**  
DEM10V Single plug type for ICOM, YAESU,  
DEM10M Dual plug type for ICOM, YAESU, STANDARD, ALINCO  
DEM10K Dual plug type for KENWOOD  
Built-in PTT locking mechanism / Direction free clip  
Impedance:35Ω / Microphone:2kohms ECM  
Earphone input:30mW (MAX) / Weight:25g /  
Cable length:Approx. 1.3m



**DEM20M/K/V/S:Earphone Microphone**  
DEM20M Dual plug type for ICOM, YAESU, STANDARD, KENWOOD  
DEM20K Dual plug type for KENWOOD  
DEM20V Single plug type for ICOM, YAESU, STANDARD  
DEM20S Single plug type (water proof) for STANDARD  
Built-in PTT locking mechanism / Direction free clip  
Impedance:32Ω / Microphone:2.2kohms ECM  
Earphone input:5mW (MAX) / Weight:34g /  
Cable length:Approx. 1.0m



DEM20 Series plug



V type 3.5φ 4poles  
K type Speaker:2.5φ Microphone:3.5φ  
M type Speaker:3.5φ Microphone:2.5φ  
S type 3.5φ 4poles