

## 4G/3G LTE Wide Band High Gain Low Profile Antenna

for 700 / 806 / 850 / 1800 / 1900 / 2100 / 2300 / 2500 / 2690 MHz Application

Multiple Band Coverage with No Tuning Required  
 Can be used for Mobile and Fixed Base Applications

### AT-2439 AT-2439-N

- 1-1/2" (40m/m) Dia.
- 3-1/4" (83m/m) Tall
- 150 Watts Power Rating
- SWR < 1.8 : 1
- 698 - 960 MHz 3.5dBi
- 1710 - 1990MHz 5.5dBi
- 2100 - 2700MHz 4.6dBi

### AT-2442 AT-2442-N

- 2-1/4" (57m/m) Dia.
- 5-1/2" (140m/m) Tall
- 150 Watts Power Rating
- SWR < 2.0 : 1
- 698 - 960 MHz 6 to 13dBi
- 1710 - 1990MHz 7dBi
- 2100 - 2700MHz 4 to 8dBi

## Low Profile Antenna

- SWR < 1.5:1
- 100 Watts
- For Mobile and Fixed Application with NMO or Permanent Niemale Mount
- Gold Plated Push Pin Contact

Model	Freq Range	Gain	Overall Length
<b>Standard NMO Mounting</b>			
AT-2457	450-465 MHz	2.4 dBi	3-1/4" (83m/m)
AT-2492	760-1000 MHz	2 dBi	3-1/4" (83m/m)
AT-2436	2.4-2.5 GHz	2 dBi	3-1/4" (83m/m)
AT-2437	2.4-2.5 GHz	3 dBi	3-3/8" (85m/m)

### High Frequency Female Contact Pin NMO

AT-2495	806-960 MHz	3 dBi	3-1/4" (112m/m)
(Tri-Band)	1710-1990 MHz	4 dBi	
	2.4-2.5 GHz	2 dBi	

### Standard NMO Short Whip

AT-2245	2.2-2.9 GHz	3 dBi	4-3/4" (112m/m)
AT-2247	2.2-2.9 GHz	5 dBi	8" (205m/m)

## High Frequency Mounting Accessories

- Fully Enclosed Shielded Zinc Housing
- Fully Weatherized
- Gold Contact Pin
- 17 If Super Low Loss NFC-200 Cable

### High Frequency Fully Sealed 3/4" NMO Hole Mount

Model HFN-212  
Standard NMO



Model HFN-212-T  
Female Contact Pin NMO



### 3/4" Hole NMO Bracket

Model L-3/4H  
Stainless Steel for  
Trunk / Fender Groove



Model L-3/4H-L



Model L-5/8H-L  
Stainless Steel for  
Nast Mounting

Magnet Mount: 3-5/8" Zinc Housing w/ 3/4" Fully Sealed NMO & Rubber Boot

Model HFN-292



Model HFN-392



## 4G/3G LTE Wide Band High Gain Low Profile Antennas

Model AT-2442 NMO Mounting

Model AT-2442N Permanent Hole Mount-N(I)

Antenna for 700 / 806 / 850 / 1800 / 1900 / 2100 / 2300 / 2500 / 2690mhz Application

NEW



### Specifications

#### Electrical

Frequency Range .....	698-960MHz,1710-2700MHz
VSWR	
698-960MHz .....	<2.0:1.0
1710-2110MHz .....	<2.0:1.0
2110-2170MHz .....	<2.0:1.0
2300-2700MHz .....	<2.0:1.0
Nominal Peak Gain Fixed on 50mm*50mm GND	
698-960MHz .....	6-13dBi
1710-1990MHz .....	7dBi
2100-2700MHz .....	4-8dBi
Polarization/ Pattern .....	Vertical / Omni directional
Input Impedance .....	50 ohm
Power Rating .....	150W

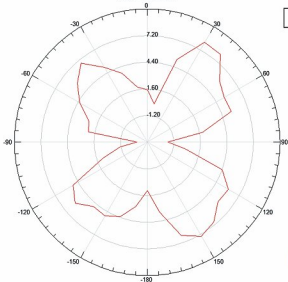
#### Mechanical

Color .....	Black or White Available
Radom Material .....	High Heat ABS
Dimensions (Ht. x dia.) .....	5 1/2" (140mm) x 2 1/4" (57mm)
Operating Temperature .....	-40 °C to 85 °C

### ANTENNA PATTERNS

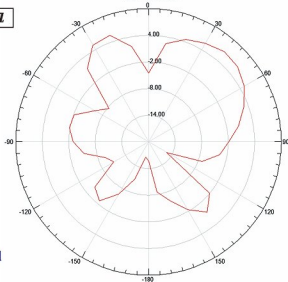
E PLANE

XOY-700MHz



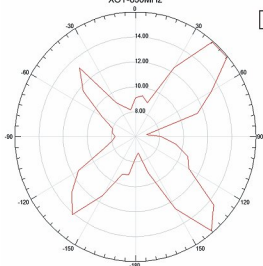
H PLANE

YOZ-700MHz



## E PLANE

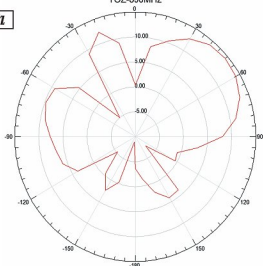
XOY-850MHz



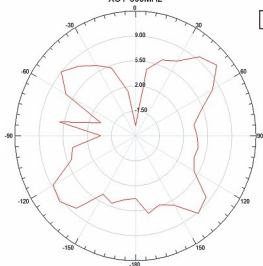
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YOZ-850MHz

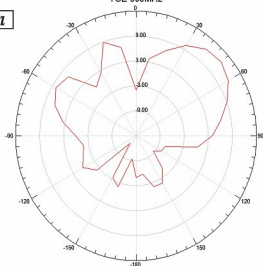


XOY-960MHz

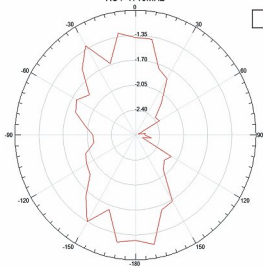


960MHz

YOZ-960MHz

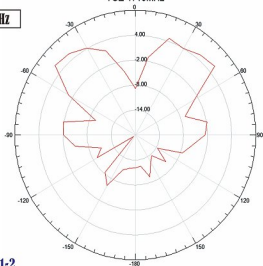


XOY-1710MHz



1710MHz

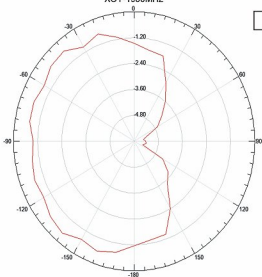
YOZ-1710MHz



## ANTENNA PATTERNS

**E PLANE**

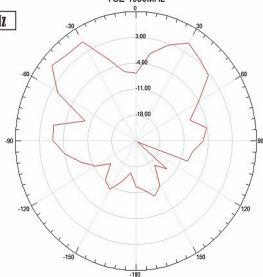
XOY-1950MHz



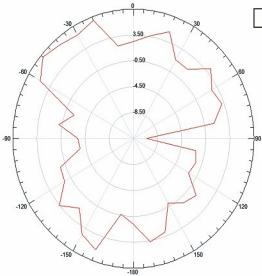
**1950MHz**

**H PLANE**

YOZ-1950MHz

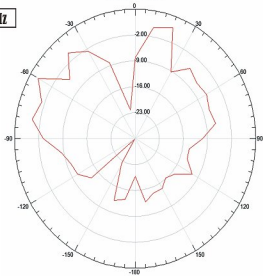


XOY-2700MHz



**2700MHz**

YOZ-2700MHz



## Land Mobile Wide Band Antennas - No Tuning Required

- NMO Mounting • Gold Push Pin Contact for Better Power Transfer
- Solid Brass Bushing with Chrome Plated or Black Finish
- 160 Watts Power Rating • 0-ring in the Base

Model	Freq MHz	Bandwidth MHz	Gain dBD	Radiator Wave	Ground Plane	Overall Length
<b>VHF Models</b>						
AT-1454	137-158	21	2.4	1/2	No	42 3/4" 1085mm
AT-1454-S	137-158	21	2.4	1/2	No	41 3/4" 1060mm
AT-1454-B	137-158	21	2.4	1/2	No	42 3/4" 1085mm
TM-1454-S-B	137-158	21	2.4	1/2	No	41 3/4" 1060mm
TM-1564	145-165	20	2.4	1/2	No	39" 990mm
TM-1564-S	145-165	20	2.4	1/2	No	38" 965mm
TM-1564-B	145-165	20	2.4	1/2	No	39" 990mm
TM-1564-S-B	145-165	20	2.4	1/2	No	39" 965mm
TM-1446-WB	136-174	38	4.1	6/8xC-Load	No	57" 3/8" 1458mm
TM-1566-WB	144-165	21	4.1	6/8xC-Load	No	47" 7/8" 1215mm
TM-1452-WB	136-174	38	Unit	1/4	Yes	20" 500mm
TM-1452-S-WB-B	136-174	38	Unit	1/4	Yes	20" 500mm

Model	Freq MHz	Bandwidth MHz	Gain dBD	Radiator Wave	Ground Plane	Overall Length
<b>UHF Models</b>						
AT-4517-CL	406-490	84	5.5	5/8 x 5/8 C-Load	Yes	34" 860mm
AT-4616	440-480	40	4.5	5/8x1/2	No	36" 760mm
AT-4616-S	440-480	40	4.5	5/8x1/2	No	36 3/4" 780mm
AT-4616-CL	406-510	104	4	7/8xC-Load	Yes	22" 560mm
AT-4514-S-WB	380-520	140	2.4	1/2	No	11" 280mm
AT-4514-S-WB-B	380-520	140	2.4	1/2	No	11" 280mm
AT-4014-S-WB	350-450	100	2.4	1/2	No	12 1/2" 315mm
AT-4014-S-WB-B	350-450	100	2.4	1/2	No	12 1/2" 315mm
AT-4465-S	406-470	64	3	5/8	Yes	13 1/4" 340mm
AT-4465-S-B	406-470	64	3	5/8	Yes	13 1/4" 340mm

Note : Suffix B = Black Finish  
 Suffix S = Spring  
 Blank = Chrome Plated



## Fiberglass Omnidirectional Base - Wide Band No Tuning

- Niemale Connector • 150 Watts • Mounting Bracket & Hardware Included
- Pre Tuned • No Ground Plane • Heavy Duty Fiberglass

Models	Frequency MHz	Bandwidth MHz	Tuned Freq MHz	Gain dBD	Radiator Wave	Overall Length
<b>Wide Band VHF Models</b>						
FG-1565-WB	136-174	38 VSWR<1.6	155	3	5/8 Wave C-Load	47 1/4" 1200mm
FG-1566-WB	136-174	38 VSWR<1.8	150	4.2	3/4 Wave C-Load	59" 1500mm
<b>2m / 70cm Dual Band</b>						
FG-282	144-148	4 VSWR<1.5	146	4.5	3/4 Wave C-Load	63" 1600mm
	440-450	10 VSWR<1.5	445	7.2	3x5/8 Wave C-Load	
<b>Wide Band UHF Models</b>						
FG-4517-WB	400-490	90 VSWR<2	450	4.5	5/8x1/2 Wave C-Load	34" 85mm
FG-4518-WB	435-485	50 VSWR<1.5	450	6	3x5/8 Wave C-Load	55" 1400mm



## Fiberglass Omnidirectional Base

- No Ground Plane • N Female Connector • High Density Fiberglass
- Durable Gold Coated Sleeve • Mounting Bracket Included
- 100% Tested by Network Analyzer to Assure the Best VSWR

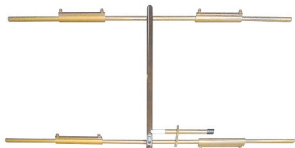
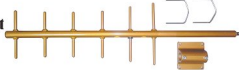
Model	Frequency MHz	Gain	Overall Length	VSWR	Band Width	
FG-1534	152-156	Unit	68"	173 cm	<1.25	10 MHz
FG-1495	148-152	3 dBD	107"	272 cm	<1.30	
FG-1535	152-156	3 dBD	107"	272 cm	<1.25	
FG-1575	156-162	3 dBD	107"	272 cm	<1.30	
FG-282	144-148 440-450	4.5 dBD 7.2 dBD	63"	160 cm	<1.50	
FG-4512	450-470	Unit	26"	66 cm	<1.30	50 MHz
FG-4515	450-460	3 dBD	44"	112 cm	<1.25	33 MHz
FG-4517	450-460	5 dBD	76"	193 cm	<1.30	15 MHz
FG-4615	460-470	3 dBD	44"	112CM	<1.30	28 MHz
FG-4617	460-470	5 dBD	76"	193 cm	<1.30	15 MHz
FG-4559	450-470	5 dBD	76"	193 cm	<1.70	25 MHz
FG-8072	806-866	Unit	15"	38 cm	<1.25	110MHz
FG-8075	806-866	3 dBD	25"	64 cm	<1.60	96 MHz
FG-8078	806-866	6 dBD	65"	165 cm	<1.80	
FG-2437-5	2400-2500	5 dBD	14"	35.5 cm		
FG-2437-8	2400-2500	8 dBD	24"	61 cm		
FG-2437-15	2400-2500	15 dBD	63"	160 cm		



## Fully Welded Yagi Antenna

- N Female Connector • Pre Tuned • w/Mounting Bracket

Model	Frequency MHz	Element	Gain dBD	Finish	Front-Back Ratio dB
YG-4515	450-470 MHz	3	7.1 dBD	Gold	17dB
YG-4517	450-470 MHz	5	9.2 dBD	Gold	20dB
YG-4518	450-470 MHz	6	10.2 dBD	Gold	20dB
YG-4518-B	450-470 MHz	6	10.2 dBD	Black	20dB
YG-8075	806-896 MHz	3	6 dBD	Gold	15dB
YG-8078	806-896 MHz	6	9 dBD	Gold	16dB
YG-8078-B	806-896 MHz	6	9 dBD	Black	16dB
YG-8024	806-896 MHz	12	11 dBD	Gold	20dB
YG-8024-B	806-896 MHz	12	11 dBD	Black	20dB
YG-8975	896-970MHz	3	6 dBD	Gold	15dB
YG-8978	896-970MHz	6	9 dBD	Gold	16dB



## Tunable Yagi Antenna

- N Female Connector • w/Mounting Bracket

YG-1455	144-174 MHz	3	7.1 dBD	Gold	17dB
YG-1455-B	144-174 MHz	3	7.1 dBD	Black	17dB

## Enclosed Yagi Antenna

- 3-ft Cable w/N Female Connector • w/Mounting Bracket

YGE-2412	2.4-2.5 GHz	Enclosed	15 dBI	White	20dB
YGE-4912	4.9-5.8 GHz	Enclosed	14.5dBI	White	20dB



## GPS Mobile & Marine Antenna

### Technical Data

- Input Voltage 3-5.5V • Power Consumption <15mA@3V <22mA@5V • VSWR 2.0:1 Typical @ 1575.42
- LNA Gain 30dB • Noise Figure 1.5dB Max. • Output Impedance 50 ohm • Polarization RHCP

#### Model GPS-MAG-SMA

- Micro GPS with Magnetic Base
- Double Sided Adhesive Pad for permanent
- 17-H RG-174 with SMA Connector

#### Model GPS-NMO

- NMO Mounting-Installs Easily
- 1-3/4" Tall & 1-3/4" In Diameter
- Gold Plated Push Pin Contact
- Micro Strip to NMO Design

#### Model GPS-V

- 30 dB Gain
- 1" 14 Thread Mounting
- 23-H RG-58 Coax. with BNC Connector
- Complete with Nylon Ratchet Mount

#### Model GPS-SR-V

- GPS and Satellite Radio Dual Band Antenna
- Works on XM & SIRIUS (2320 to 2345 MHz) and GPS
- 23-H RG58U Cable w/BNC/male for GPS
- 23-H RG58U Cable w/SMB for Satellite
- Complete with Nylon Ratchet Mount



Model RV-V  
1"-14T Stainless Bracket



### Dual Band Mobile Systems - GPS/VHF GPS/UHF GPS/800 GPS/900 3/4" Hole Mount, Trunk Lid Mount, Mirror Mount

#### Model 1112

- GPS - 1575.42MHz 3/4" Hole Mount
- 3/4" Hole Mount
- 5/16"-24 Thread Stud
- 17-H RG-58U w/Optional Connector
- 17-H RG-174 w/SMA Installed

#### Model 1112-2M

- 1/4 Wave 136-174 MHz Antenna
- 20-1/2" Length & 0.100" Dia. Stainless Steel
- w/ 5/16" Thread Ferrule

#### Model 1112-450

- 5/8 over 1/2 Wave Length
- 445-470 MHz 4 dBd Gain
- SWR < 1.5 : 1 over 10 MHz Band Width
- w/ 5/16" 24 Thread Ferrule

#### Model 1100-MP

- GPS/800-900 or GPS/890-970 MHz
- 3.5 dBd Gain
- SWR < 1.30:1 over 100 MHz Band Width
- Pretuned to 800 - 900 MHz
- For 890-970 MHz by Cutting 7/8" (22m/m) from Bottom of Whip
- 12-1/4" (31m/m) Whip Coil Length

#### Model 1212H

- 3/4" Hole Mount
- GPS-1575.42 MHz
- 1-1/8"-18 Thread NMO Mount
- 17-H RG-58U w/Optional Connector
- 17-H RG-174 w/SMA Installed

#### Model 1212TLM

- Trunk Lid Mount
- GPS-1575.42 MHz
- 1-1/8" 18 Thread NMO Mount
- 17-H RG-58U w/Optional Connector
- 17-H RG-174 w/SMA Installed

#### Model 1212MIR

- Truck Mirror Mount
- GPS-1575.42MHz
- 1-1/8" 18 Thread NMO Mount
- 17-H RG-58U w/Optional Connector
- 17-H RG-174 w/SMA Installed

### 1200H, 1200TLM & 1200MIR are Available for Antenna w/NMO Base

Model	Frequency	Gain	Radiator	Overall Length
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#### VHF Band

1212H(TLM,MIR) -1442	137-158 MHz	2.4 dBd	1/2 Wave	42-3/4" 1085m/m No Tuning
1212H(TLM,MIR) -4552	145-165 MHz	2.4 dBd	1/2 Wave	42-3/4" 1085m/m No Tuning
1212H(TLM,MIR) -4440SWS	136-174 MHz	Unit	1/4 Wave	20" 509m/m No Tuning
1212H(TLM,MIR) -NQT36	136-174 MHz	Unit	1/4 Wave	21 1/2" 548m/m By Cutting

#### UHF Band

1212H(TLM,MIR) -4604	440-480 MHz	4.5 dBd	5/8x1/2 Wave	39" 760m/m No Tuning
1212H(TLM,MIR) -4504CL	496-510 MHz	4 dBd	7/8 Wave	22" 560m/m No Tuning
1212H(TLM,MIR) -4502SWS	380-520 MHz	2.4 dBd	1/2 Wave	11" 280m/m No Tuning

#### 800/900 MHz Band

1212H(TLM,MIR) -8003	806-866 MHz 8286-896 MHz 890-970 MHz	3 dBd	5/8x1/4 Wave (open) (collinear)	14-3/4" 375m/m By Cutting
1212H(TLM,MIR) -8004C	806-866 MHz 826-896 MHz 890-960 MHz	3 dBd	5/8x1/2 Wave (closed) (collinear)	16-1/2" 420m/m By Cutting



## NMO VHF Load Coil Gain Antenna

- Gold Plated Push Pin Contact - 17-7ph Stainless Tapered Whip
- 200 Watts Power Rating - VSWR 1.2:1 max. @ Tuned

Model	Frequency	Bandwidth	Whip Length
<b>5/8 Wave 3 dBd</b>			
1343	134-174 MHz	5MHz	53" x 0.118" (3.0m/m)
1343N	136-174 MHz	5MHz	53" x 0.118" (3.0m/m)
1343N-V	132-174 MHz	5MHz	53" x 0.118" (3.0m/m)
1363	136-174 MHz	5MHz	53" x 0.118" (3.0m/m)
1363-S	132-174 MHz	5MHz	53" x 0.118" (3.0m/m)
2203	200-260 MHz	5MHz	37" x 0.100" (2.5m/m)
1603	144-174 MHz	5MHz	49" x 0.100" (2.5m/m)
1603-B	144-174 MHz	5MHz	49" x 0.100" (2.5m/m)
1603-S	137-174 MHz	5MHz	49" x 0.100" (2.5m/m)
1603-S-B	137-174 MHz	5MHz	49" x 0.100" (2.5m/m)
1903	144-174 MHz	5MHz	49" x 0.100" (2.5m/m)
1903-S	137-174 MHz	5MHz	49" x 0.100" (2.5m/m)
1443	144-174 MHz	5MHz	49" x 0.100" (2.5m/m)
1443-B	144-174 MHz	5MHz	49" x 0.100" (2.5m/m)
1443-S	138-174 MHz	5MHz	49" x 0.100" (2.5m/m)
1443-S-B	138-174 MHz	5MHz	49" x 0.100" (2.5m/m)
NMO-150	144-174 MHz	5MHz	49" x 0.100" (2.5m/m)
NMO-150-S	140-174 MHz	5MHz	49" x 0.100" (2.5m/m)



<b>1/2 Wave No Ground Plane 2.4 dBd Gain</b>			
1362	132-174 MHz	5MHz	49" x 0.118" (3.0m/m)
NVA-148	133-182 MHz	20MHz	43" x 0.118" (3.0m/m) (Wide Band)



<b>6/8 Wave w/C Load No Ground Plane 4.1 dBd Gain</b>			
<b>No Tuning</b>			
NVA-148-WB	136-174 MHz	30MHz	54" x 0.142" (3.6m/m) (Wide Band)

Note: Suffix B = Black Finish  
 Suffix S = Spring  
 Blank = Chrom Plated



## Coil Housing





## VHF w/PL-259(UHFmale) Connector Mobile Whip Gain Antenna

- Shunt feed DC Ground Design
- 200 Watts Power Rating
- 17-7ph Stainless Tapered Whip

Model	Frequency	Gain	Whip Length	VSWR
<b>5/8 Wave High Gain</b>				
PL-150-B	144-174MHz	3dBd	1250X2.5mm	<1.5 over 5MHz
HG-1443	144-174MHz	3.4dBd	1320X3.0mm	<1.5 over 5MHz
P-145-V	144-174MHz	3.4dBd	1250x3.0mm	<1.5 over 5MHz
MC-1443	144-174MHz	3dBd	1250x3.0mm	<1.5 over 5MHz
M-1443	144-174MHz	3.4dBd	1250x3.0mm	<1.5 over 5MHz
<b>6/8 Wave High Gain</b>				
M-144-3/4-S	144-174MHz	4.1dBd	1400X3.0mm	<1.5 over 5MHz
<b>5/8 over 5/8 High Gain No Ground Plane</b>				
M-65D-L	144-148MHz	6.5dBd	2460mm (Total Height)	<1.5 over 5MHz
<b>6/8 Wave C-Load Wide Band No Tuning No Ground</b>				
M-41D-C	144-174MHz	4.1dBd	1455mm (Total Height)	<1.5 over 40MHz
M-1444-WB	144-174MHz	4.1dBd	1458mm (Total Height)	<1.5 over 12MHz



## VHF w/PL-259(UHFmale) Connector 1/4 Wave Mobile Whip Antenna

PLQ-2	136-174MHz	Unit	520X2.5mm	<1.5 over 20MHz
PLQ-2M	136-174MHz	Unit	502X2.5mm	<1.5 over 20MHz
PLQS-150	136-156MHz	Unit	432X2.5mm	<1.5 over 20MHz
PLQS-150-1	150-170MHz	Unit	393X2.5mm	<1.5 over 20MHz
PLS-144	134-152MHz	Unit	458X2.5mm	<1.5 over 20MHz
PLS-144-1	148-168MHz	Unit	420X2.5mm	<1.5 over 20MHz



## Coil Housing and Magnet Base in One Piece

### Model 5415-M

- Covering 142-174 MHz
- 5/8 Wave 3 dBd Gain
- VSWR 1.5 Max. Over 5 MHz
- 200 Watts Power Rating
- 49" x 0.100" (2.5m/m) ph-17-7 Stainless Tapered Whip
- 3 1/2" (89m/m) Magnet
- 15-ft RG58U Coax. Attached w/PL259 or BNC Connector



## Quarter Wave Antenna

• Unit Gain • 200 Watts Power Rating

Model Freq. (MHz) Whip Length

Base Loaded 1/4 Wave DC Ground Shunt Feed  
 Gold Plated Push Pin Contact NMO Base

LC-27	26.5-30 MHz	1250x2.5x1.5m/m
LC-34	34-40 MHz	1250x2.5x1.5m/m
LC-40	40-50 MHz	1250x2.5x1.5m/m
LC-50	47-54 MHz	1250x2.5x1.5m/m

3/8-24 Thread Ferrule

NC-27	27-54 MHz	2590x5x2.5m/m
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Pre Tuned Brass Nut w/Plastic Cover Type

Gold Plated Push Pin Contact Pin NMO Base

NC-136	136-512MHz	503x2.5m/m
NC-136-S	136-512MHz	483x2.5m/m
NC-800	800-970MHz	7x2.5m/m

Pre Tuned NMO Brass Nut Type

NMQ-136	136-144MHz	511x1.56m/m
NMQ-136-B	136-144MHz	511x1.56m/m
NMQ-144	144-152MHz	487x1.56m/m
NMQ-144-B	144-152MHz	487x1.56m/m
NMQ-150	150-162MHz	458x1.56m/m
NMQ-150-B	150-162MHz	458x1.56m/m
NMQ-162	162-172MHz	425x1.56m/m
NMQ-162-B	162-172MHz </td <td>425x1.56m/m</td>	425x1.56m/m
NMQ-220	220-225MHz	
NMQ-220-B	220-225MHz	
NMQ-410	410-490MHz	154x1.56m/m
NMQ-410-B	410-490MHz	154x1.56m/m
NMQ-800	800-900MHz	84x1.56m/m
NMQ-800-B	800-900MHz	84x1.56m/m

Tunable NMO Brass Nut Type

NMQTF-136	136-174MHz	520x1.56m/m
NMQTF-136-B	136-174MHz	520x1.56m/m

Low Profile Wide Band

Gold Plated Push Pin Contact  
 NMO Brass Nut Type

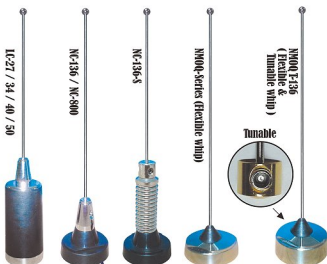
NQ-136	136-970MHz	520x2.5m/m
NQ-136-S	132-174MHz	478x2.5m/m
NQ-136-B	136-970MHz	520x2.5m/m
NQ-136-S-B	132-174MHz	478x2.5m/m
NQ-108	108-970MHz	495x2.5m/m
NQL-136	136-174MHz	495x2.5m/m
NQA-136-S	136-174MHz	478x2.5m/m

## Quarter Wave Magnet Kit

• 12-II RG-58U w/PL-259 or miniUHF

Model Freq. (MHz) Whip Length

QUM-118	118-174MHz	630x2.5m/m
QUM-136	136-510MHz	520x2.5m/m
QUM-406	406-512MHz	168x2.5m/m



**NEW**

Model TM-1440S-WB  
 Covering 144-174 MHz  
 No Tuning Required  
 160 Watt Power Rate  
 w/Spring  
 White or Black Available  
 20" (500m/m) Tall

## UHF w/NMO Mount No Ground & 3dBd/5dBd Gain Antenna

• Gold Push Pin Contact • 200 Watts Power Rating • 17-7ph Stainless Whip

	Freq. (MHz)	Gain	Radiator
<b>5/8 over 1/2 Wave</b>			
UC-450A	406-420	3.5dBd	5/8 x 1/2 Collinear
UC-450B	420-445	3.5dBd	5/8 x 1/2 Collinear
UC-450C	445-470	3.5dBd	5/8 x 1/2 Collinear
UC-450D	470-490	3.5dBd	5/8 x 1/2 Collinear
UC-450E	490-512	3.5dBd	5/8 x 1/2 Collinear

<b>5/8 over 5/8 Wave</b>			
4065	406-430	5.0dBd	5/8 x 5/8 Collinear
4305	430-450	5.0dBd	5/8 x 5/8 Collinear
4505	450-470	5.0dBd	5/8 x 5/8 Collinear
4705	470-490	5.0dBd	5/8 x 5/8 Collinear
4905	490-512	5.0dBd	5/8 x 5/8 Collinear

<b>5/8 over 5/8 Wave No Ground Plane</b>			
406NGP	406-430	5.0dBd	5/8 x 5/8 Collinear
430NGP	430-450	5.0dBd	5/8 x 5/8 Collinear
450NGP	450-470	5.0dBd	5/8 x 5/8 Collinear
470NGP	470-490	5.0dBd	5/8 x 5/8 Collinear
490NGP	490-512	5.0dBd	5/8 x 5/8 Collinear

<b>1/2 Wave No Ground</b>			
4062	406-430	2.4dBd	1/2 Wave
4302	430-450	2.4dBd	1/2 Wave
4502	450-490	2.4dBd	1/2 Wave
4902	490-512	2.4dBd	1/2 Wave

<b>5/8 Wave</b>			
4063	406-430	3.0dBd	5/8 Wave
4303	430-450	3.0dBd	5/8 Wave
4503	450-470	3.0dBd	5/8 Wave
4703	470-490	3.0dBd	5/8 Wave
4903	490-512	3.0dBd	5/8 Wave

<b>Wide Band No Tuning</b>			
AT-4517-CL	410-480 (VSWR 1.5 Max.)	5.5dBd (865m/m Tall)	5/8 over 5/8 C-Load
AT-4516-CL	420-475 (VSWR 1.5 Max.)	4.0dBd (560m/m Tall)	7/8 Wave C-Load
AT-4515-CL	406-490 (VSWR 1.5 Max.)	3.0 dBd (355m/m Tall)	5/8 Wave C-Load
AT-4514S-WB	400-500 (VSWR 1.5 Max.)	2.4 dBd (289m/m Tall)	1/2 Wave
N-82	430-470 (VSWR 1.4 Max.)	3.0 dBd (500m/m Tall)	6/8 Wave C-Load

## UHF w/PL259 Mount Gain Antenna

<b>5/8 over 1/2 Wave</b>			
PL-406	406-420	3.5dBd	5/8 x1/2 Collinear
PL-420	420-440	3.5dBd	5/8 x1/2 Collinear
PL-440	440-460	3.5dBd	5/8 x1/2 Collinear
PL-450	450-470	3.5dBd	5/8 x1/2 Collinear
PL-470	470-490	3.5dBd	5/8 x1/2 Collinear
PL-490	490-512	3.5dBd	5/8 x1/2 Collinear

## Coil Housing and Magnet Base in One Piece

- 15-ft RG-58U Cable Attached w/PL-259 or miniUHF
- VSWR Less Than 1.5:1 over 20 MHz
- 5/8 over 1/2 collinear
- 3.5 dBd Gain



## Satellite Radio Antenna

- Universal Design Works with All Satellite Radio (XM & SIRIUS) Service
- Magnetic, Mirror, Hold and 1"-14 Thread Mount • Land Mobile Class Design • Hermetically Sealed

### Specification

Frequency.....	2320 - 2332.5 MHz ( SIRIUS ) 2332.5-2345 MHz ( XM )
Satellite Gain .....	5 dBic ( Typical )
Terrestrial Gain .....	-1.0 dBic ( Typical )
Noise Figure .....	1.0 dBic ( Max. )
Current Consumption .....	45 mA ( Typical ) 55 mA ( Max. )
Supply Voltage .....	4.5 V ( Typical )
Operating Temperature ...	-40F to 220F
Polarization .....	LHCP

### Magnetic Mount

- Model SR-MAG-SMB
- Micro Magnetic Satellite Antenna
  - Heavy Duty Magnet Mounting
  - Double Side Adhesive Pad for Permanent Mounting
  - 21-II RG-174 Cable with Gold RA SMB.



### Mirror Mount

- Model SR-512
- Antenna, Bracket and Cable in One Piece
  - Stainless Steel Mirror Mount
  - 17-II RG-174 Cable with Gold Plated RA SMB



### Mirror Mount

- Model SR-1012
- Stainless Steel Mirror Mount
  - 21-II RG-58U Cable Attached w/Gold Plated RA SMB and SMAmale on both ends



### Mirror Mount

- Model SR-2012
- Built-in Large Ground Plane
  - Stainless Steel Mirror Mount
  - 21-II RG-58U Cable Attached w/Gold Plated RA SMB and SMA male on both ends



### Low Profile Mirror & NMO Mount

- Model SR-NMO
- 3/4" NMO Mountable Antenna
  - Stainless Steel Mirror Mount
  - 17-II RG-58U Cable Attached w/Gold Plated RA SMB and Fully Shielded NMO on Both ends



### Marine Satellite Antenna

- Model SR-V
- Nylon Ratchet Mount for Easy Lay-down
  - 23-II RG58U w/Gold Plated RA SMB



### Marine Satellite & GPS Combo

- Model GPS-SR-V
- Nylon Ratchet Mount for Easy Lay down
  - 23-II RG58U w/Gold Plated RA SMB for Satellite Radio
  - 23-II RG58U w/BNCmale for GPS



### Low Profile Hole Mount

- Model SR-NMO-II
- 3/4" NMO Hole Mount Antenna
  - 17-II RG-58U Cable Attached w/Gold Plated RA SMB and Fully Shielded NMO Mount on Both ends



### Replace Cable

- Model RC-33
- 21-II RG-58U Attached w/RA SMB and SMAmale on both ends



### Replace Cable

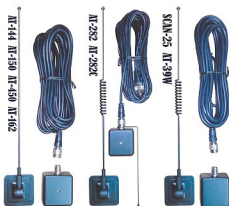
- Model RC-29
- 17-II RG-58U Cable Attached w/Gold Plated RA SMB and Fully Shielded NMO Mount on Both ends



## Glass Mount Antenna

- Simple Installation - No Wires to Run from Outside to Inside of Vehicle
- Base Adjusts to Curved or Angled Surface
- Mounts Through Glass, Fiberglass or Plastic Up to 3/8" Thick

Model	Frequency	Gain	Radiator	Cable Kits	
AT-39W	CB w/ Weather	Unit	26" (660m/m) Whip w/Open Coil	17H RG58U w/TNCmale and PL-259 on Both Ends	
AT-282	144-148MHz 430-450MHz	2.5dBd	26" (660m/m) Whip w/Open Coil and Radial		
AT-282C	150-158MHz 450-470MHz	4.5dBd			
AT-144	144-148MHz	2.5dBd	27-1/2" (698m/m) Tapered Whip		
AT-150	150-158MHz				
AT-450	450-470MHz	4.5dBd			
AT-162	Weather Band				17H RG58U w/TNCmale and RCA on Both Ends
SCAN-25 (Scanner)	25-1300MHz		26" (660m/m) Whip w/Open Coil		17H RG58U w/TNCmale and BNCmale on Both Ends



## Dual Band Mobile System

Model	Freq. MHz	Gain	Radiator	Connector	Height
UV-322	140-170 430-470	Unit 2.5dBd	Open Coil Collinear Black Finish	3/8-24T	17" (432m/m)
UV-324	140-170 430-470	Unit 2.5dBd	Open Coil Collinear Black Finish	NMO	18-1/2" (470m/m)
UV-324M	140-170 430-470	Unit 2.5dBd	Open Coil Collinear Black Finish	Magnet	19" (483m/m)
UV-325	144-148 430-450	2.5 dBd 5.5 dBd	Closed Collinear	NMO	37-1/2" (953m/m)
UV-325C	150-158 450-470	2.5 dBd 5.5dBd	Closed Collinear	NMO	36-1/2" (927m/m)
HG-270A	144-148 430-440	2.5 dBd 5.5dBd	Closed Collinear	UHFmale	38" (965m/m)
HG-270B	144-148 440-450	2.5 dBd 5.5dBd	Closed Collinear	UHFmale	37-1/2" (953m/m)



Model	Mounting	Description
GPS 1575.42 MHz		
1112	3/4" Hole Mount	Combination GPS & Antenna w/5/16"-24T Series



Model	Mounting	Description
GPS 1575.42 MHz		
1212-H	3/4" Hole Mount	Combination GPS & Antenna w/NMO Mount
1212-TLM	Trunk Lid Mount	Combination GPS & Antenna w/NMO Mount
1212-MIR	Mirror Mount	Combination GPS & Antenna w/NMO Mount
1212-MAG	Magnet Mount	Combination GPS & Antenna w/NMO Mount

Model	Mounting	Description
Satellite Radio		
1212SR-H	3/4" Hole Mount	Combination Satellite & Antenna w/NMO Mount
1212SR-TLM	Trunk Lid Mount	Combination Satellite & Antenna w/NMO Mount
1212SR-MIR	Mirror Mount	Combination Satellite & Antenna w/NMO Mount
1212SR-MAG	Magnet Mount	Combination Satellite & Antenna w/NMO Mount

## Marine Satellite & GPS Combo



## High Performance Fiberglass Base Antenna

- High performance 200 watts power rating, low SWR & broad banded.
- In models with multiple sections there is a special design of the joint brack to connect fiberglass tubing that enables the antenna to maintain the same strength as one.
- The radiator and coil are hermetically sealed in fiberglass tubing to assure low SWR in all weather.
- DC ground construction allows static dissipation for low noise ratio and maximum lightning protection.
- Vertical polarization with 50 ohms impedance.
- Mast diameter accepted is 1 3/16" to 2 7/16" (30-62mm) - UHF (S0-239) connector.

Model	Frequency	Gain	Bandwidth VSWR<1.5:1	Configuration	Tall	Max Wind
<b>VHF Model Single Section 20-1/2" (52cm) Radial Length</b>						
BF-134	134-184 MHz	4.5dBd	5MHz Tuning by Sliding Chart	5/8x5/8x5/8 Wave	4'10" (1.47m)	135MPH (60m/sec.)
BF-116	116-142 MHz	4.5dBd	4MHz Tuning by Sliding Chart	6/8 Wave	6' 3" (1.9m)	
BF-220	220-350 MHz	4.5dBd	5MHz Tuning by Cutting Chart	5/8 x 1/2 Wave	5' (1.52m)	135MPH (60m/sec.)
<b>VHF Model Two Section 20-1/2" (52cm) Radial Length</b>						
BF-2M2	144-148 MHz	6.7dBd	5MHz Tuning by Cutting Chart	7/8 x 7/8 Wave	10' 6" (3.2m)	110MPH (50m/sec.)
<b>VHF Model Three Section 20-1/2" (52cm) Radial Length</b>						
BF-2M3	144-148 MHz	7.8dBd	5MHz Tuning by Cutting Chart	3x5/8 Wave C-Load	14.10" (4.52m)	90MPH (40m/sec.)
<b>Dual Band Model 20-1/2" (52cm) Radial Length</b>						
UVS-200 (Two Sec.)	144-148 MHz 430-450MHz	6dBd 8dBd	4MHz 20MHz	2X5/8 Wave 4X5/8Wave	8' 4" (2.54)	110MP (50m/sec.)
UVS-300 (Three Sec.)	144-148 MHz 430-450 MHz	8.3dBd 11.7dBd	4MHz 20MHz	3X5/8 Wave C-Load 8X5/8 Wave C-Load	17' (5.18m)	90MPH (40m/sec.)
<b>UHF Model Single Section 7" (19.5cm) Radial Length</b>						
BF-400	400-495MHz	5dBd	20MHz Tuning by Sliding Chart	5/8 over 1/2 Wave	39" (1.0m)	135MPH (60m/sec.)
BF-406	406-512 MHz	6.5dBd	20MHz Tuning by Sliding Chart	3X5/8 Wave	5' 3" (1.6m)	135MPH (60m/sec.)

## No Ground CB/Amateur Fiberglass Base Antenna

### Model CBS-18

- DC Ground Structure • No ground Radial Need • External Trimmer for Easy Tuning
- No Cutting-Sliding Whip Adjustment

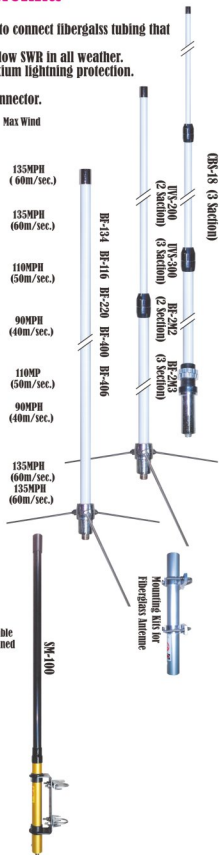
### Specification

Overall Length .....	18ft-Comes 3 Sections	Configuration .....	1/2 over 1/4 Wave Variable
Frequency .....	25.5-31 MHz	Mutual Transductance Tuned	
Gain .....	5.75 dBd	Max. Wind .....	90MPH (40m/sec.)
VSWR .....	1.15 Max. over CB Band	Polarization .....	Vertical
Power Capacity .....	<1.5 over 2MHz Bandwidth	Impedance .....	50 Ohm
	2,000 Watts	Connector .....	S0-239 (UHFfemale)

## No Ground Mini CB Base Antenna

### Model SM-100

- 3-ft Tall 500 Watts
- No SWR Adjustment
- S0-239 (UHFfemale) Connector
- Low Wind Resistance
- Mast or Aftic Mounting
- Can Be used for Truck, RV Also.



## Aluminum Base Antenna

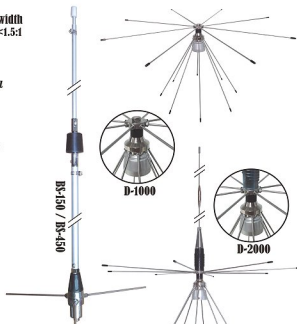
- Radiator is constructed of aircraft quality aluminum for extended service life.
- Coils are hermetically sealed in a heavy duty nylon housing to assure low SWR in all weather.
- Adjust the length of radiators for covering 136-174/400-500 MHz without cutting.
- 200 watts power rating with verticle polarization • UHF (S0-239) connector with 50 Ohms impedance.
- Grounded 5/8 over 5/8 wave • Stainless hardware

Model	Description	Frequency	Gain	Bandwidth VSWR<1.5:1
BS-150	10-ft (3m) Tall 20.2" (52cm) Radial Length	136-174 MHz	6 dBd	5MHz
BS-450	42" (1.06m) Tall 7.5" (19.5cm) Radial Length	400-500 MHz	5 dBd	10MHz

## Board Band Stainless Discone Antenna

- Covering 25-1300MHz • Rust Free All Stainless Steel Structure
- SWR 1.5:1 Max. • 1-3/8" (35m/m) Maximum Mast Diamter
- UHFfemale (S0239) Connector

Model	Description
D-1000	• Transmit Band 144, 220, 440, 900, & 1290 MHz • Max. Power 200 Watt • 8 pcs Low Radial 32" (18cm) • 8 pcs Upper Radial 10.5" (26cm)
D-2000	• Transmit Band 26, 27, 46, 49, 72, 144, 220, 440, 900, 1290 MHz • Max. Power 300 Watt for CB & 200 Watt for VHF UHF • 6 pcs Low Radial 32" (18cm) • 2 pcs Adjustable Lower Radial 48" (122cm) to 52" (132cm) • 8 pcs Upper Radial 10.5" (26cm) • Top Whip Length 55" (140m/m)



## Base Ground Kits-Mobile to Base Converter

- 200 Watt Power Rating • 100 MPH (48/sec.) Max. Wind Load
- Mast Diameter Accepted 2" (5cm) • Include Stainless Hardware & 4 pcs 20.5" (52cm) Ground Plane Radial

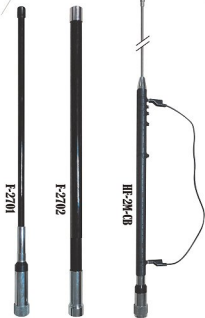
Model	Description
GP-1	UHFfemale (S0-239) to UHFfemale (S0-239) Ground Plane Kit
GP-2	NMO to Niemale Ground Plane Kit
GP-3	NMO to UHFfemale (S0-239) Ground Plane Kit



## Multi-Band Communication Antenna

- Adjust the Whip Length & Connect Jumper Lead for Desired Frequency Band • 150 watt Power Rate • UHFfemale Connector

Frequency	3.7MHz (80M)	7.5MHz (40M)	14.5MHz (20M)
	21.5MHz (15M)	26.9-27.5MHz (CB Band) & 10 M Band	
	42MHz (7M)	52MHz (6M)	118MHz (Air Band)
	136-174MHz(2M)		
Configuration	Base Loaded 1/4 Wave on 80M, 40M, 20M, 15M, CB Band Full 1/4 Wave on 6 M, 7M Band		
VSWR	2.0:1 Max. on 6 MHz & 7.5MHz 1.5:1 Max. for All Other Band		



## No Ground Fiberglass Dual Band

- The Radiator and Coil are Hermetically Sealed in Fiberglass Tubing
- DC Ground Construction • UHFfemale Connector • 200 Watt Power Rate
- Frequency 144-148/430-450 MHz • 3dBd on VHF / 5.5 dBd on UHF
- 1/2 Wave on VHF & 5/8 over 5/8 Wave on UHF

Model	Description
F-2701	1 Mete Tall & 12m/m in Dia. Fiberglass Tubing
F-2702	1 Mete Tall & 20m/m in Dia. Fiberglass Tubing



## Marine Antenna

Pre-tuned for all marine band frequency & weather channel

Model Gain Description

### VHF Model

- 20-ft RG58U Coax. attached w/FME
- FME-UHF male (PL-259) adaptor included
- Easy screw on PL-259 for small hole installation
- Durable high density fiberglass

AFV-15-PF 3dBd 44" tall & 1/2" diameter  
 Complete w/ratchet mount RM-1

AFV-15-PF-L 3dBd 44" tall & 1/2" diameter  
 Complete w/stainless bracket RV-5

- Nylon ratchet mount included
- RG58U coax. cable w/PL259 at end

MFV-5 3dBd 5-ft tall & 1/2" diameter  
 17-ft cable length

MFV-8 6dBd 8-ft tall & 1/2" diameter  
 15-ft cable length

### AIS/VHF Model

- Covering marine band and AIS (Automatic Identification System)
- FME-PL259 adaptor included

AFV-16-PF 4dBd 51.5" tall and 1" diameter fiberglass  
 20ft cable attached w/FME  
 Supplied with Ratchet mount (RM-1)

AFV-16-S0 4dBd 51" tall and 5/8" diameter fiberglass  
 5/8"-24 threaded base for lifting PL-259 of base  
 mirror mount (RV-3) or mounting sleeve (AT-536)  
 Supplied with 2ft RG58U and FME on both ends  
 Order mount separately

AFV-16-PS 4dBd 51" tall and 5/8" diameter fiberglass  
 UHF female at base for lifting PL-259 of cable  
 Supplied with 2ft RG58U and PL259 & FME  
 on both ends  
 Supplied with 5/8" hole mirror mount (RV-3)

### AIS/VHF Low Profile Model

- Covering marine band and AIS (Automatic Identification System)

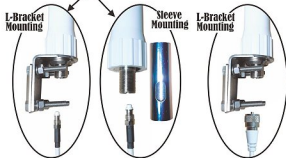
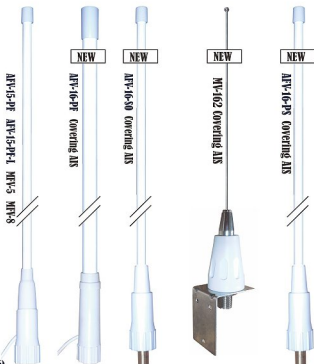
MV-162 3dBd Total height 1m  
 Covering 156-162MHz  
 VSWR less than 1.2:1  
 Supplied w/L bracket for mounting  
 Supplied w/15ft RG58U and PL-259 on both ends

### AIS/VHF & GPS Combo Model

- Combination AIS/VHF and GPS antenna
- Covering 156-162MHz
- 3 dBd gain on AIS/VHF
- High gain GPS element
- 1"-14 threaded base
- Supplied with FME-PL259 adaptor

Model ATVG-62 Completed with 2ft RG58U with FME and 2ft RG174 with BNC  
 50mm antenna ground plane  
 Total height 39-3/4" (1.1m)

Model ATVG-82 Completed with 2 pcs 2ft RG 58U one w/FME the other with BNC  
 70mm antenna ground plane  
 Total height 39-3/4" (1.1m)





## Marine Antenna

### GPS & Satellite Model

#### Specification

##### GPS

Frequency .....	1575.421.023MHz
Input voltage .....	3-5.5V
Power consumption	<15mA @ 3V <22mA @ 5.5V
LNA gain.....	30dB
Noise figure .....	1.5dB Max.
VSWR .....	2.0:1 Max.
Polarization .....	RHCP

##### Satellite

Frequency .....	2320 - 2332.5 MHz ( SIRIUS ) 2332.5-2345 MHz ( XM )
Satellite Gain .....	5 dBc ( Typical )
Terrestrial Gain .....	-1.0 dBc ( Typical )
Noise Figure .....	1.0 dBc ( Max. )
Current Consumption	45 mA ( Typical ) 55 mA ( Max. )
Supply Voltage .....	4.5 V ( Typical )
Polarization .....	LHCP

### Low profile GPS

#### Model GPS-LP

- 30 dB Gain
- 23-ft RG-58U coax. with BNC Connector
- 1" 14 threaded base for fitting variety of marine mount



### Marine GPS-V

#### Model GPS-V

- 30 dB Gain
- 23-ft RG-58 Coax. with BNC Connector
- Complete with Nylon Ratchet Mount



### Marine Satellite

#### Model SR-V

- Nylon Ratchet Mount for Easy Lay-down
- 23-ft RG58U w/Gold Plated RA SMB



### GPS & Satellite Combo

#### Model GPS-SR-V

- GPS and Satellite Radio Dual Band
- 23-ft RG58U w/BNCmale for GPS
- 23-ft RG58U w/SMB for Satellite
- Complete with Nylon Ratchet Mount



### VHF Low Profile Model

Model	Gain	Description
-------	------	-------------

1/2 wave Base load DC ground  
 17-7 ph stainless steel whip  
 15-ft RG58U cable and PL-259 at both end

MV-158 3dBd 35" .100"(2.54mm) stainless whip

MV-158QD 3dBd 35" .200"(5mm) taper whip  
 Featuring quick dis-connect

MV-156 3dBd 36" .100"(2.5mm) stainless whip  
 Nylon coil housing  
 NMO to 1"-14 T adaptor w/15H RG58U  
 and PL259 at end



### CB Model

MCB-36 36" top load fiberglass  
 Lift and lay mount w/ leveling plate  
 17-ft RG58U w/shunt cable and PL259 at end

## Mounting Kits

Model RM-1  
 Nylon Ratchet  
 Mount w/1"-14  
 Thread



Model RV-V  
 Stainless w/1"-14  
 Thread  
 For Side, Rail &  
 Mirror Mount



Model AT-V  
 Nylon w/1"-14  
 Thread



## Mounting Sleeve

Brass construction w/chrome plated

#### Model

AT-126 1"-14T male to  
 1"-14T female

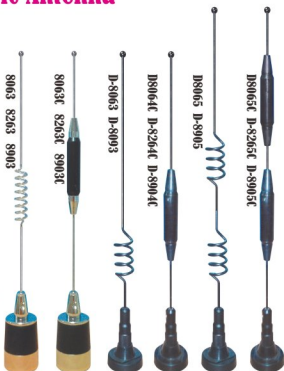
AT-536 5/8"-24T female to  
 1"-14T female



## 800 / 900 MHz NMO & Magnetic Antenna

- Gold Plated Push Pin Contact
- Black Coated Finish
- VSWR less than 1.5:1

Model	Frequency	Gain	Radiator
<b>NMO Mount</b>			
8063	806-866 MHz	3 dBd	5/8 X 1/4 Wave Open Collinear
8263	826-896 MHz	3 dBd	5/8 X 1/4 Wave Open Collinear
8903	890-970 MHz	3 dBd	5/8 over 1/4 Wave Open Collinear
8063C	806-866MHz	3 dBd	5/8 X 1/4 Wave Closed Collinear
8263C	826-896MHz	3 dBd	5/8 X 1/4 Wave Closed Collinear
8903C	890-970MHz	3 dBd	5/8 X 1/4 Wave Closed Collinear
D-8063	806-896 MHz	3 dBd	5/8 X 1/4 Wave Open Collinear
D-8903	890-970 MHz	3 dBd	5/8 X 1/4 Wave Open Collinear
D-8064C	806-866MHz	4 dBd	5/8 X 1/2 Wave Closed Collinear
D-8264C	826-896 MHz	4 dBd	5/8 X 1/2 Wave Closed Collinear
D-8904C	890-970 MHz	4 dBd	5/8 X 1/2 Wave Closed Collinear
D-8065	806-896 MHz	5 dBd	5/8x5/8x1/4 Wave Open Collinear
D-8905	890-970 MHz	5 dBd	5/8x5/8x1/4 Wave Open Collinear
D-8065C	806-866MHz	5 dBd	5/8x5/8x1/4 Wave Close Collinear
D-8265C	826-896MHz	5 dBd	5/8x5/8x1/4 Wave Close Collinear
D-8905C	890-970MHz	5 dBd	5/8x5/8x1/4 Wave Close Collinear



### Magnetic Mount

- 17-ft RG58U Cable w/SMA
- Capacitance hat lower system loss & more bandwidth

AT8060	806-970MHz	Unit	1/4 Wave
AT7600	760-870MHz	Unit	1/4 Wave
AT8063	806-970MHz	3 dBd	5/8x1/4 Wave
AT7603	760-870MHz	3 dBd	5/8x1/4 Wave

## Fixed Station Multiband Ceiling Mount Indoor Antenna

- Work on Trunking, Cellular, GSM900 & 1800, ISM, DCS1800, PCS1900, DECT & UMTS System
- 1/4 Wave Ground Plane • 50 Watts • 50 Ohm • Niemale Connector
- Unit Gain

Model	Frequency	Height X Diameter
CM-800	806-896 / 1710-2170MHz	2-3/4"(70m/m) x 8"(203m/m)
CM-900	870-960/1710-2170MHz	2-3/4"(70m/m) x 8"(203m/m)
CM-800WB	806-960/1710-3000MHz	2-7/8"(73m/m) x 8"(203m/m)



## CB & 10 Meter Amateur Antenna w/Weather Capability

- Covering 26-30 MHz • Floating coil reduce 80% dielectric loss
- Thermoplastic round coil holder for high impact and heat proof
- VSWR less than 1.5:1 over 1.5 MHz bandwidth
- 2-1/8" coil w/gold plated for getting rid of resistive heat loss
- Stainless cover on the top of coil housing for more bandwidth

### Model KL-10

- 5" magnet w/rubber boot • 17-ft RG 58U coax cable w/PL-259
- 56.5" stainless tapered whip • Weather channel capability
- 3500 watts power rating

### Model KL-11-N

- Gold plated push pin contact for better power transfer
- Hole mount and magnet mount available • Weather channel capability
- 3500 watts power rating • 57.5" stainless tapered whip

### Model KL-11-PL

- PL-259(UHFfemale) connector • Weather channel capability
- 3500 watts power rating • 57.5" stainless tapered whip
- Hole mount and magnet mount available

### Model KL-12

- 6" stainless steel shaft w/ 3/8"-24 thread stud mount
- 3700 watts power rating • 46" stainless tapered whip

## One Piece Magnet & Coil Housing CB Magnet Kit

### Model KL-8

- 26-30MHz 300 watts power rating • Weather channel capability
- 3-1/2" magnet w/ rubber boot • 17-ft RG-58U cable w/ PL-259
- 14" gauge finned copper coil wire • 35" stainless tapered whip

## CB Magnet Kit

- Covering 26.965 – 27.405 MHz • 17-ft RG58U cable w/ PL-259
- 3.5" Magnet • Stainless steel spring, shaft and whip for rust free

### Model KL-105

- Base load w/ shunt feed coil • VSWR below 1.5:1 across CB band
- Weather band capacity • 40" Tall & 35" whip length

### Model KL-103

- Center load • Weather band capacity • 24.5" Tall
- VSWR below 1.7:1 across CB band

## Magnet Mount for KL-11-N & KL-11-PL

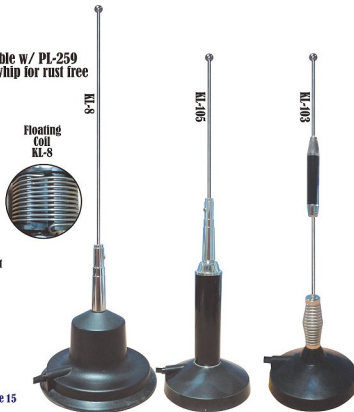
- Order mount separately • Heavy duty 5.5" mount w/ rubber boot
- 17-ft RG58U cable w/PL-259

### Model GI-324N

- w/ NMO base

### Model GI-324S

- w/ SO-239 (UHFfemale) base



## Aluminum Construction Broad Band 26-30MHz 10Meter Amateur/CB Antenna

- Light weight
- Aircraft quality
- 17-7ph stainless tapered whip
- Standard 3/8"-24 thread stud mount
- Durable Al-anodized for extended service life

Model	Ferrule	shaft	Whip
<b>5/16"(8m/m) wide flat &amp; 2" coil diameter</b>			
Copper ferrule & 3/8" stainless shaft-----15,000watts			
AT-77	3.5" Copper	1" copper	51-1/4"
AT-78	3.5" Copper	6" stainless	47-1/4"
AT-79	3.5" Copper	16" stainless	41-1/2"
<b>23/32"(18m/m) aluminum tubing dia-----27,000watts</b>			
AT-87	3.5" Copper	1" copper	51-1/4" Twin coil
AT-88	3.5" Copper	6" Stainless	49-1/4" Twin coil
AT-89	3.5" Copper	16" Stainless	44-1/2" Twin coil
AT-3	7" Al tubing	3" Al tubing	53"
AT-6	7" Al tubing	6" Al tubing	53"
AT-9	7" Al tubing	9" Al tubing	50"

<b>1/2" wide flat &amp; 3" coil diameter</b>			
<b>28/32" (22m/m) aluminum tubing dia-----35,000 watts</b>			
AT-51	9" Al tubing	9" Al tubing	51-1/4"

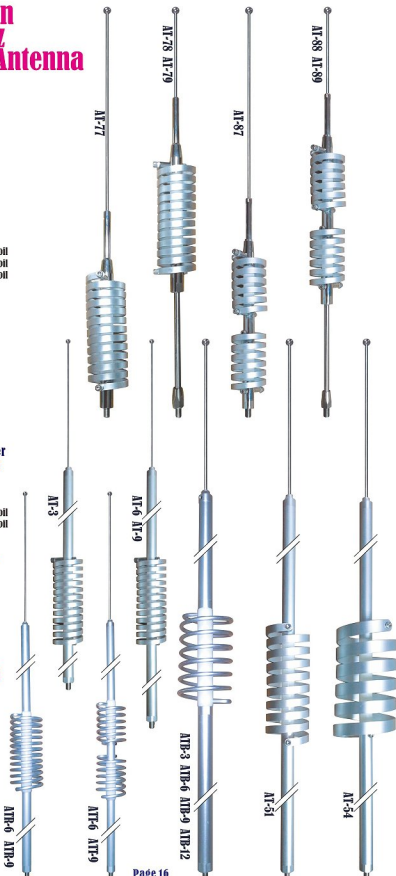
<b>3/4" wide flat &amp; 4-1/8" coil diameter</b>			
<b>28/32" (22m/m) aluminum tubing dia-----37,000 watts</b>			
AT-54	9" Al tubing	9" Al tubing	59"

<b>1/4" dia. round aluminum &amp; 2-1/2" coil diameter</b>			
<b>23/32" (18 m/m) aluminum tubing dia -----15,000 watts</b>			
ATR-6	7" Al tubing	6" Al tubing	35-1/2"
ATR-9	7" Al tubing	9" Al tubing	35-1/2"
ATT-6	7" Al tubing	6" Al tubing	42-1/4" Twin coil
ATT-9	7" Al tubing	9" Al tubing	42-1/4" Twin coil

<b>1/4" dia. round aluminum &amp; 3-1/8" coil diameter</b>			
<b>28/32" (22m/m) aluminum tubing dia-----20,900 watts</b>			
ATB-3	7" Al tubing	3" Al tubing	55-1/8"
ATB-6	7" Al tubing	6" Al tubing	53"
ATB-9	7" Al tubing	9" Al tubing	51-1/4"
ATB-12	7" Al tubing	12" Al tubing	49-1/8"

## Stainless Steel Mirror Mount w/Cable

- Model ATN-17
- Stainless steel mount and bolt
- 17-H RG 58 A/U stranded coax. w/P1259
- 3/8"-24 thread stud for standard CB antenna



## Big Copper Coil Broad Band 26-30 MHz Amateur/CB Antenna

- 2" Coil diameter
- 3/8" stainless steel shaft
- Harder than steel insulator
- Double chrome plated
- Standard 3/8"-24 thread stud mounting

Model Shaft Whip Height

1/4" Copper tubing 10,000 watts

AF-27	1"	51-1/4"	59"
AF-28	6"	49-1/4"	63"
AF-29	16"	44-1/2"	68"

AF-37	1"	51-1/4"	61"
AF-38	6"	49-1/4"	65"
AF-39	16"	44-1/2"	70"

3m/m Wire round coil 6000 watts

KF-40	1"	51-1/4"	59"
KF-40M	6"	49-1/4"	63"

3m/m Square coil 6000 watts

KTS-40	1"	51-1/4"	59"
KTS-40M	6"	49-1/4"	63"

### Oil Filled Coil

- 3/8" Stainless steel shaft
- Heavy duty, high grade copper loading coil offer great field strength
- 6dB gain
- Stainless 17-7ph tapered whip
- 3/8"-24 thread mounting

Model	Shaft	Whip	Height
OF-50	6"	44.5"	55"
OF-50L	16"	41.5"	61"

### Low Profile CB

- 26-29 MHz
- Heavy duty 4.5" loading coil
- 43" stainless 17-7 ph tapered whip
- 400 watts
- Standard 3/8"-24 thread mounting
- VSWR <1.2:1 over CB band

### Modulator Wild Band

- 26-29 MHz
- Heavy duty 16" loading coil
- 1000 watts
- VSWR less than 1.5:1 over 2MHz bandwidth
- Stainless 17-7ph tapered whip
- 3/8"-24 thread mounting

Model Height

MA-9	48"
MA-99	64"

### Fiberglass CB Antenna

- Heavy duty, high performance, top loaded
- 26-29MHz AM/FM/SSB
- 1500 watts full wave
- 3/8"-24 thread stud mount

Model Height

F-2B (W)	2ft
F-3B (W)	3ft
F-4B (W)	4ft

Note : Suffix B = Black

Suffix W = White



### Big Copper Coil w/Aluminum Shaft & Ferrule

Model ATA-28

Model ATA-38 (Twin coil)

Dia. of coil	2"
Dia. of aluminum	23/32"
Length of ferrule (18m/m)	7"
Length of shaft	6"
Whip	49-1/4"

## Mounting Kits

### Magnet mount

- 17-ft RG58 coax. w/connect attached available upon request
- Optional rubber boot

Model	Connector	Description
GL-324S	S0-239	• 19.4 oz Powerful magnet
GL-324T	3/8"-24T	• 6" High impact plastic housing
GL-324N	NMO	• Optional rubber boot
GL-322S	S0-239	• 19.4 oz Powerful magnet
GL-322T	3/8"-24T	• steel cover w/chrome or black available
GL-322N	NMO	• Optional rubber boot
GL-320S	S0-239	• 13 oz Powerful magnet
GL-320T	3/8"-24T	• 5" High impact plastic
GL-320N	NMO	• Optional rubber boot
GL-380S	S0-239	• 7.6oz Powerful Spole magnet
GL-380N	NMO	• 3-5/8" Zinc w/chrome or black finish available
		• Optional rubber boot
GL-280S	S0-239	• 7.6oz Powerful Spole magnet
GL-280N	NMO	• 3-5/8" Zinc w/chrome or black finish available
		• Optional rubber boot
GL-318S	S0-239	• 5.2oz powerful magnet w/Spole
GL-318N	NMO	• 3.5" zinc w/chrome plated
GL-317S	S0-239	• 5.2oz powerful magnet w/Spole
GL-317N	NMO	• 3.5" zinc w/black kote
GL-317T	3/8"-24T	• 5.2oz powerful magnet
		• 3.5" plastic housing
GL-300S	S0-239	• Black tripte 5" magnet
GL-300T	3/8"-24T	• Heavy duty triangle aluminum plate
GL300N	NMO	• Optional rubber boot



### High frequency magnet mount

- Super low loss TN-200 cable
- Gold contact pin & black cover
- 3/4" Fully sealed NMO minimizes signal radiation, loss and leakage

AHF-380N	NMO	• 17ft TN-200 cable
AHF-280N	NMO	• Fully enclosed shield zinc housing
		• 3-5/8" magnet base w/rubber boot
AHF-55N	NMO	• 12ft TN200 low loss cable w 3/4" fully sealed NMO & gold pin
		• 2-3/8" steel cover w/black kote



### Rubber Boot

Model	Description
ARR-324	Rubber boot for GL-324 series
ARR-322	Rubber boot for GL-322 & GL300 series
ARR-320	Rubber boot for GL-320 series
ARR-380	Rubber boot for GL-380 & 280 series
ARR-318	Rubber boot for GL-318 & 317 series



Rubber boot



## Mounting Kits & Bracket

**Model Connector Description**

### Trunk mount

- 17-ft RG58 coax. w/connect attached available upon request
- Available in brite chrome or black coated

GL-316S	S0-239	- Hi-impact plastic cover
GL-316T	3/8"-24T	- Stainless steel bracket and set screw
GL-316N	NMO	

GL-314S	S0-239	- Stainless steel bracket
GL-314T	3/8"-24T	- Fit up to 6 or 10m/m surface option
GL-314N	NMO	

VA-314S	S0-239	- Stainless steel bracket
VA-314T	3/8"-24T	- Fit up to 6 or 10m/m surface option
VA-314N	NMO	- Base adjusts curved or angled surface

### Mirror Mount

- 17-ft RG58U cable w/connector option

RV-4S	S0-239	- 1/8" Stainless steel bracket and hardware
RV-4T	3/8"-24T	- Connector enclosed stainless steel mount
RV-4N	NMO	

### Gutter Mount

- 17-ft RG58U cable w/connector option

GM-1S	S0-239	- Heavy duty zinc die casting w/chrome plated
GM-1T	3/8"-24T	
GM-1N	NMO	- Stainless hardware included

### Base Ground Kits

- Mobile to base converter
- 135MPH(60m/sec) max. wind load
- 4pcs 20.5" (52cm) ground plane radial included

RV-NS	NMO	NMO to S0-239
RV-2S	S0-239	S0-239 to S0-239
RV-2N	NMO	NMO to N

### Adaptor

**Model Description**

- |       |       |                               |
|-------|-------|-------------------------------|
| N-38  | ..... | NMO to 3/8" - 24 Thread       |
| N-239 | ..... | NMO to S0-239 (UHF female)    |
| N-50  | ..... | NMO to S0-239 1" thick plate  |
| N-60  | ..... | NMO to Niemale 1" thick plate |

### Bracket

**Model Description**

- |       |       |   |
|-------|-------|---|
| GM-1  | ..... | Heavy duty zinc die-casting w/chrome plated stainless steel hardware included |
| SBM-1 | ..... | Hi-impact plastic Side mount with 3/8"-24T                                    |
| QD-1  | ..... | Antenna quick disconnect  |



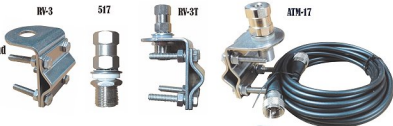


## Mounting kits, Bracket, Cable Assembly & Accessories

### Model Description

#### Stainless steel mirror mount

- RV-3 .... Stainless steel mount with 1/2", 5/8" or 3/4" hole available  
 517 .... Stainless steel S0-239 and 3/8"-241 all thread  
 RV-3T .... Stainless steel mirror mount w/#517  
 ATM-17 .... Stainless steel mirror mount Comes with 17-ft RG 58U cable and PL-259 all both end  
 RV-SS .... UHF to UHF stainless steel mirror mount  
 RV-V .... Stainless steel mirror mount w/ 1"-14 thread

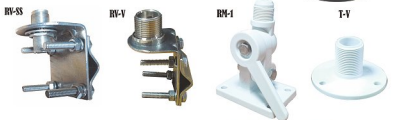


#### Nylon ratchet mount

- RM-1 .... 1"-14T

#### Nylon deck mount

- T-V .... 1"-14T



#### Stainless steel L bracket

- L-3/4H .... 3/4" hole  
 L-13/16H .... 13/16" hole  
 L-3/8H .... 3/8" hole  
 L-1/2H .... 1/2" hole  
 L-3/4H-L .... Flat 3/4" hole  
 L-3/4H-L .... 3/4" hole 2x2" hose clamp supplied  
 L-5/8H-L .... 5/8" hole 2x2" hose clamp supplied



#### Stainless steel spring for land mobile antenna

- 1214 .... Chrome plated for .100"(2.5mm) whip  
 1214-B .... Black chrome plate for .100"(2.5mm) whip  
 1215 .... Chrome plate for .118"(3mm) whip  
 1215-B .... Black chrome plate for .118"(3mm) whip  
 190-Spring .... Chrome plate for model 190 antenna  
 1210 .... Chrome plated for .100"(2.5mm) whip  
 1210-B .... Black chrome plate for .100"(2.5mm) whip  
 1208 .... Chrome plate for .100"(2.5mm) whip  
 1209 .... Chrome plate for .118"(3mm) whip  
 1206 .... Chrome plate for .100"(2.5mm) whip



#### Cable assembly

##### NMO 3/4" hole mount

- 1310 .... 17-ft RG-58U coax. and optional connector at end High frequency fully shielded NMO 3/4" hole mount  
 1311 .... NMO mount w/17ft RG-58U cable and PL-259 connector  
 1312 .... NMO mount w/17ft RG-58U cable and connector available separately  
 1311MO .... 3/4" NMO mount only

##### NMO 5/8" hole mount

- 1313 .... NMO mount w/17ft RG58U cable and PL-259 connector  
 1314 .... NMO mount w/17ft RG58U cable and connector available separately  
 1313MO .... 5/8" NMO mount only

##### NMO 3/8" hole mount

- 1315 .... NMO mount w/17ft RG-58U cable and PL-259 connector  
 1316 .... NMO mount w/17ft RG-58U cable and connector available separately  
 1315MO .... 3/8" NMO mount only

##### UHF female 5/8" hole mount

- PS-17 .... UHF female molded mount w/17ft RG58U cable and PL259 connector  
 PS-17A .... UHF female mount w/17ft RG58U cable and PL259 connector  
 PS-17AMO .... 5/8" UHF female (S0239) mount only

##### Accessories

- RC-1 .... NMO rain cap with 0-ring  
 RC-2 .... 3/4" rubber hole plug



#### Land mobile class noise filter

- NF-15  
 - 15 AMP 250W  
 - High inductance iron core coil 10,000 MFD bypass electrolytic capacitor  
 - heavy duty suppression of alternator and ignition noise

