At Diamond Antenna we take tremendous pride in our product and our customer service. We know our product is the best money can buy, and with purchasing a Diamond Antenna you are also purchasing the care and customer service that comes along with it.

Our product department is constantly going through every batch of antennas and thoroughly checking every inch to make sure that the Diamond Antenna you purchase will out perform and outlast the competition.

All Diamond Antennas are factory pretuned to give the best VSWR, No additional tuning required unless otherwise noted.

For all questions, comments, or concerns please contact us:
ph - 770-614-7443  fx - 770-614-7480  email - diamond@rfparts.com
www.diamondantenna.net  facebook.com/diamondantenna

Diamond Antennas are available through authorized dealers.

And are distributed by the Diamond Antenna division of RF Parts Company - 435 S. Pacific St. - San Marcos, CA 92078

One Year Limited Warranty
One year against manufacturing defects in material & workmanship.
The Diamond Antenna Division of RF Parts Co. will repair or replace, at its option, products it deems covered by Limited Warranty.
Products damaged due to misuse, improper tuning or installation, or freight handling are not covered by our Limited Warranty.
Contact the customer service department for Return Authorization number at 770-614-7443.

Merchandise Return
Items returned for warranty repair must have copy of original purchase receipt and be shipped insured & prepaid to the address listed on back of catalog.
Return Authorization number must be obtained and written on outside of returned package.
Fiberglass antennas must be carefully packaged to protect their surfaces from scratches and abrasions.
Wrap metal ends of each antenna section to insure against shipping damage to fiberglass.

DO NOT SEND MOUNTING HARDWARE. Loose hardware causes damage to fiberglass sections.
Contact the customer service department for Return Authorization and questions pertaining to returns. 770-614-7443.

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<td>Dummy Loads</td>
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<td>Through Window/Door Assembly</td>
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<td><strong>More Photos</strong></td>
<td>Page 31</td>
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Any tampering, cutting or attempted adjustment of the antenna beyond our recommendations may void all warranty. If you have any questions, please call Diamond Customer Service Department at 770-614-7443

For More Technical information, radiation patterns, or installation instructions please visit www.diamondantenna.net
Diamond Antennas’ base station antennas are in a class of their own. For decades they have been tested, tortured, and put through the worst conditions possible. And in the end, you have a product that stands head and shoulders above the rest.

Our antennas are constructed using heavy-duty fiberglass radomes, or heavy-duty aluminum sections, making Diamond Antennas the toughest antennas on the market.

Wherever you live, whatever the conditions, a Diamond Antenna is the best choice.

The X700HNA Base Station Repeater Antenna

**X700HNA Special Features:**
- Heavy duty fiberglass radomes
- Four section assembly
- Overlapping outer shells for added strength
- Stainless steel mounting hardware and radials
- Type-N cable connection
- Wideband performance
- Highest gain Dual-band Base Antenna!

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**Base Station Antennas**

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## Monoband Base Antennas

<table>
<thead>
<tr>
<th>Model</th>
<th>Bands</th>
<th>Gain/dBi</th>
<th>Max Pwr. Rating</th>
<th>Wind Rating</th>
<th>Height</th>
<th>Conn.</th>
<th>Element Phasing</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP62</td>
<td>6m (50MHz)</td>
<td>5.5</td>
<td>500 SSB/200 FM</td>
<td>80</td>
<td>22</td>
<td>UHF</td>
<td>2-5/8λ. BW: 1.5MHz</td>
<td>A, D</td>
</tr>
<tr>
<td>CP22E</td>
<td>2m</td>
<td>6.5</td>
<td>200</td>
<td>70</td>
<td>8.9’</td>
<td>UHF</td>
<td>2-5/8λ.</td>
<td>A</td>
</tr>
<tr>
<td>F22A</td>
<td>2m</td>
<td>6.7</td>
<td>200</td>
<td>112</td>
<td>10.5’</td>
<td>UHF</td>
<td>2-7/8λ.</td>
<td></td>
</tr>
<tr>
<td>F23H</td>
<td>144-174</td>
<td>7.8</td>
<td>350</td>
<td>90</td>
<td>15’</td>
<td>UHF</td>
<td>3-5/8λ.</td>
<td>B, C</td>
</tr>
<tr>
<td>F718A</td>
<td>70cm</td>
<td>11.5</td>
<td>250</td>
<td>90</td>
<td>15’</td>
<td>N</td>
<td>18-1/2\lambda. Coaxial Element Antenna.</td>
<td></td>
</tr>
<tr>
<td>F1230A II</td>
<td>1.2GHz</td>
<td>13.8</td>
<td>100</td>
<td>112</td>
<td>11.5’</td>
<td>N</td>
<td>14-5/8λ.</td>
<td></td>
</tr>
<tr>
<td>BC920</td>
<td>902-928 MHz</td>
<td>9.3</td>
<td>100</td>
<td>135</td>
<td>5.9’</td>
<td>N</td>
<td>5-5/8λ.</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**

A. Heavy-duty Aluminum.  
B. High Power  
C. Tunable 144-174 with cutting chart.  
D. Adjustable 50-54MHz

---

**Tip:** For multiple section base antennas, elements can shift during shipping. Lightly tap bottom of fiberglass on the ground to slide element back down to workable area.
## Dualband Base Antennas

<table>
<thead>
<tr>
<th>Model</th>
<th>Bands</th>
<th>Gain/dBi</th>
<th>Max Pwr. Rating</th>
<th>Wind Rating</th>
<th>Height (feet)</th>
<th>Conn.</th>
<th>Element Phasing</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>X30A</td>
<td>2m/70cm</td>
<td>3.0/5.5</td>
<td>150</td>
<td>135</td>
<td>4.5</td>
<td>UHF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>X50A</td>
<td>2m/70cm</td>
<td>4.5/7.2</td>
<td>200</td>
<td>135</td>
<td>5.6</td>
<td>UHF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>X50NA</td>
<td>2m/70cm</td>
<td>4.5/7.2</td>
<td>200</td>
<td>135</td>
<td>5.6</td>
<td>N</td>
<td></td>
<td>B, Repeater Version (derate by 50%)</td>
</tr>
<tr>
<td>X200A</td>
<td>2m/70cm</td>
<td>6.0/8.0</td>
<td>200</td>
<td>112</td>
<td>8.3</td>
<td>UHF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>X300A</td>
<td>2m/70cm</td>
<td>6.5/9.0</td>
<td>200</td>
<td>112</td>
<td>10</td>
<td>UHF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>X300NA</td>
<td>2m/70cm</td>
<td>6.5/9.0</td>
<td>200</td>
<td>112</td>
<td>10</td>
<td>N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>X510HDM</td>
<td>2m/70cm</td>
<td>8.3/11.7</td>
<td>330/250</td>
<td>90</td>
<td>17.2</td>
<td>UHF</td>
<td></td>
<td>A, Optimized 143.5-146.5/428-442 MHz</td>
</tr>
<tr>
<td>X510HDN</td>
<td>2m/70cm</td>
<td>8.3/11.7</td>
<td>330/250</td>
<td>90</td>
<td>17.2</td>
<td>N</td>
<td></td>
<td>A, Optimized 143.5-146.5/428-442 MHz</td>
</tr>
<tr>
<td>X510NJ</td>
<td>144-147/430-440</td>
<td>8.3/11.7</td>
<td>200</td>
<td>90</td>
<td>17.2</td>
<td>N</td>
<td></td>
<td>B, Optimized 143.5-146.5/428-442 MHz</td>
</tr>
<tr>
<td>X700HNA</td>
<td>2m/70cm</td>
<td>9.3/13.0</td>
<td>200</td>
<td>90</td>
<td>24</td>
<td>N</td>
<td></td>
<td>B, Optimized 143.5-146.5/428-442 MHz</td>
</tr>
</tbody>
</table>

**NOTES:**

- **A.** High Power.
- **B.** Repeater Version (for repeater use, derate by 50%)
# Triband, Discone Base Antennas

<table>
<thead>
<tr>
<th>Model</th>
<th>Bands</th>
<th>Gain/dBi</th>
<th>Max Pwr. Rating</th>
<th>Wind Rating</th>
<th>Height (feet)</th>
<th>Conn.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>X6000A</td>
<td>2m/70cm/23cm</td>
<td>6.5/9/10</td>
<td>100/60</td>
<td>112</td>
<td>10.5</td>
<td>N</td>
<td>2m: 2-5/8λ; 70cm: 5-5/8λ; 23cm: 6-5/8λ.</td>
</tr>
<tr>
<td>V2000A</td>
<td>6m/2m/70cm</td>
<td>2.1/6.2/8.4</td>
<td>150</td>
<td>110</td>
<td>8.3</td>
<td>UHF</td>
<td>6m: 1/2λ; 2m: 2-5/8λ; 70cm: 4-5/8λ.</td>
</tr>
<tr>
<td>D130J</td>
<td>25-1300 MHz</td>
<td>2 dBi nom.</td>
<td>200</td>
<td>90</td>
<td>5.6</td>
<td>UHF</td>
<td>Wideband Discone</td>
</tr>
<tr>
<td>D130NJ</td>
<td>25-1300 MHz</td>
<td>2 dBi nom.</td>
<td>200</td>
<td>90</td>
<td>5.6</td>
<td>N</td>
<td>Wideband Discone</td>
</tr>
<tr>
<td>D3000N</td>
<td>25-3000 MHz</td>
<td>2 dBi nom.</td>
<td>200</td>
<td>90</td>
<td>5.6</td>
<td>N</td>
<td>Wideband Discone</td>
</tr>
</tbody>
</table>

**NOTES:**
- A. Adjustable 50-54MHz.
- B. 1/4λ rated in dBi
- C. 2m: 146-148MHz
- D. 6m: 52-54MHz
- E. 144MHz up: 200 watts, 6m: 20 watts FM, 50 watts PEP

---

V2000A 6m Counterpoise Radial
Adjustable 52-54MHz (FM Only)
HFV-5

HF Dipole

The HFV-5 is a compact and portable multiband HF antenna. Do you have neighbors that fuss over antennas, or a HOA with strict restrictions? Then the HFV-5 is your answer. The adjustable arms allow you to operate in tight and antenna restricted areas. Easily attach to a push up pole for the HF station on the go!

Specifications:
- Bands: 40m/20m/15m/10m/6m
- Mast diameter accepted: .98” to 2.44”
- Power rating: 150W (SSB, 7/14MHz), 200W (SSB, 21/28/50MHz)
- Length: 13.1 ft.
- Weight: 4.3 lbs
- Connector: SO-239 (UHF Female)
- VSWR: Less than 1.5:1 (within resonant frequency band)

BB7V Multiband Vertical Antenna

Diamond’s BB7V multiband vertical antenna provides coverage from 2 MHz to 30 MHz without radials. The BB7V has 6 telescoping sections that nest in each other with a collapsed length of 5 feet and extends to a length of 22 feet when fully deployed. These sections are self locking (no hardware to lose) and can be raised or lowered in less than a minute. For permanent use, each section can be locked in place with a single screw. The extreme ease of raising and lowering this 4.5 pound antenna will make it a favorite for those who have antenna restrictions or travelers wanting a quick and easy wide band antenna solution. The BB7V is a very slim, low profile antenna.

Note:
The BB7V requires an antenna tuner for best performance.

CP6AR-S Multiband Trap Vertical Antennas

Diamond’s CP Series vertical antennas with trap radials are light weight antennas, which makes them very manageable during the installation process and will allow for a simple mast solution. The radials can be mounted 360 degrees around the antenna or concentrated on one side if you need to mount it close to a structure. Because of its light weight and the option of concentrating radials to one side, the CP Series antennas could be used in an antenna restricted situation where the mast was lowered on its side during daylight, and raised while operating during the evening.

Special Features:
- Compact size
- Heavy-duty aluminum sections
- Easy Assembly
- No additional ground radials required
- Mounting hardware included

CP-6AR-S: Six Band
75m, 40m, 20m, 15m, 10m, 6m

CP-5H: Five Band
40m, 20m, 15m, 10m, 6m

CP8040: Two Band
80m, 40m

Multiband, and HF Antennas

<table>
<thead>
<tr>
<th>Model</th>
<th>Bands</th>
<th>Gain/dBi</th>
<th>Max Pwr. Rating</th>
<th>Wind Rating</th>
<th>Height (feet)</th>
<th>Conn.</th>
<th>Element Phasing</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB7V</td>
<td>2-30 MHz</td>
<td>-</td>
<td>250</td>
<td>80</td>
<td>5/22</td>
<td>UHF</td>
<td>2-30MHz (tuner required) no radial vertical</td>
</tr>
<tr>
<td>HFV-5</td>
<td>40m/20m/15m/10m/6m</td>
<td>-</td>
<td>150w (SSB 7/14MHz) 200w (SSB 21/28/50MHz)</td>
<td>-</td>
<td>13.1 ft. (length)</td>
<td>UHF</td>
<td>Trapped Dipole</td>
</tr>
<tr>
<td>CP-5H</td>
<td>40m/20m/15m/10m/6m</td>
<td>-</td>
<td>200w/400w/500/600 SSB</td>
<td>80</td>
<td>11.8</td>
<td>UHF</td>
<td>5 band trapped vertical antenna with trapped “counterpoise” radial elements</td>
</tr>
<tr>
<td>CP6AR-S</td>
<td>75m/40m/20m/15m/10m/6m</td>
<td>-</td>
<td>200w P.E.P.</td>
<td>80</td>
<td>15.1</td>
<td>UHF</td>
<td>6 band trapped vertical antenna with trapped “counterpoise” radial elements</td>
</tr>
<tr>
<td>CP8040</td>
<td>80m, 40m</td>
<td>-</td>
<td>200w SSB, 70w FM</td>
<td>80</td>
<td>21</td>
<td>UHF</td>
<td>2 band trapped vertical antenna with trapped “counterpoise” radial elements</td>
</tr>
</tbody>
</table>

Multiband Trap Vertical Antennas

Diamond’s CP Series vertical antennas with trap radials are light weight antennas, which makes them very manageable during the installation process and will allow for a simple mast solution. The radials can be mounted 360 degrees around the antenna or concentrated on one side if you need to mount it close to a structure. Because of its light weight and the option of concentrating radials to one side, the CP Series antennas could be used in an antenna restricted situation where the mast was lowered on its side during daylight, and raised while operating during the evening.

Special Features:
- Compact size
- Heavy-duty aluminum sections
- Easy Assembly
- No additional ground radials required
- Mounting hardware included

CP-6AR-S: Six Band
75m, 40m, 20m, 15m, 10m, 6m

CP-5H: Five Band
40m, 20m, 15m, 10m, 6m

CP8040: Two Band
80m, 40m
Multiband, HF, and 6m Antennas, and Wire Dipole Antennas

<table>
<thead>
<tr>
<th>Model</th>
<th>Bands</th>
<th>Gain/dBi</th>
<th>Max Pwr.</th>
<th>Wind</th>
<th>Height</th>
<th>Conn.</th>
<th>Element</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP62</td>
<td>6m(50MHz)</td>
<td>5.5</td>
<td>500 SSB/200 FM</td>
<td>80</td>
<td>22</td>
<td>UHF</td>
<td>2-5/8</td>
<td>A, B</td>
</tr>
<tr>
<td>CP610</td>
<td>6m(50MHz)/10m(28MHz)</td>
<td>5.5/3.4</td>
<td>500 SSB/200 FM</td>
<td>80</td>
<td>22</td>
<td>UHF</td>
<td>6m: 2-5/8; 10m: 5/8</td>
<td>B, C</td>
</tr>
<tr>
<td>W-735</td>
<td>80m/40m</td>
<td>-</td>
<td>1.2kW P.E.P.</td>
<td>-</td>
<td>85.3</td>
<td>UHF</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>W-8010</td>
<td>80m/40m/20m/15m/10m</td>
<td>-</td>
<td>1.2kW P.E.P.</td>
<td>-</td>
<td>63</td>
<td>UHF</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**
A. Adjustable 50-54MHz. B. Heavy-duty aluminum C. 10m tunable

**CP610 Dualband 6m/10m Vertical Antenna**
- Heavy-duty aluminum
- Overlapping outer shells for added strength
- Stainless steel hardware
- Wide band performance
- Highest gain
- High wind rating
- DC grounded

**W-8010, W-735 HF Wire Dipole Antennas**
- The W-Series antennas are very easy to assemble. With stranded plastic coated hardened wire with low stretch ratio.
- Adjustment elements are provided to adjust each band without affecting the rest of the bands.
- A completely molded wideband balun enables perfect weather proof performance.
- W-8010 can be tuned to 75m

**Note:** CP62 is identical, just without 10m trap coil.

**Note:** Cutting adjustment element will raise resonant frequency.
### Yagi, and Beam Antennas

<table>
<thead>
<tr>
<th>Model</th>
<th>Bands</th>
<th>Gain/dBi</th>
<th>Max Pwr. Rating</th>
<th>Wind Rating</th>
<th>Length (inches)</th>
<th>Conn.</th>
<th>Element Phasing</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>A502HB</td>
<td>6m 50-54MHz</td>
<td>6.3</td>
<td>400 (PEP)</td>
<td>80 MPH</td>
<td>37.5</td>
<td>UHF</td>
<td>2 Elements</td>
<td></td>
</tr>
<tr>
<td>A144S5</td>
<td>2m 144-148MHz</td>
<td>9</td>
<td>100 (PEP)</td>
<td>80 MPH</td>
<td>37.5</td>
<td>UHF</td>
<td>5 Elements</td>
<td></td>
</tr>
<tr>
<td>A144S10</td>
<td>2m 144-148MHz</td>
<td>11.6</td>
<td>100 (PEP)</td>
<td>80 MPH</td>
<td>83.9</td>
<td>UHF</td>
<td>10 Elements</td>
<td></td>
</tr>
<tr>
<td>A430S10</td>
<td>430-440MHz</td>
<td>13</td>
<td>100 (PEP)</td>
<td>80 MPH</td>
<td>43</td>
<td>UHF</td>
<td>10 Elements</td>
<td></td>
</tr>
<tr>
<td>A430S15</td>
<td>430-440MHz</td>
<td>14.8</td>
<td>100 (PEP)</td>
<td>80 MPH</td>
<td>89</td>
<td>UHF</td>
<td>15 Elements</td>
<td></td>
</tr>
<tr>
<td>SS770R</td>
<td>2m/70cm</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>UHF</td>
<td>Phasing harness</td>
<td>A, B, C</td>
</tr>
</tbody>
</table>

**MOUNTING BRACKETS AND STACKING BOOMS**

<table>
<thead>
<tr>
<th>Bracket</th>
<th>Bands</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>KB144</td>
<td>2m</td>
<td>Side mount boom</td>
</tr>
<tr>
<td>KB430</td>
<td>430</td>
<td>Side mount boom</td>
</tr>
<tr>
<td>SB144</td>
<td>2m</td>
<td>Dual antenna stacking boom</td>
</tr>
<tr>
<td>SB430</td>
<td>430</td>
<td>Dual antenna stacking boom</td>
</tr>
</tbody>
</table>

**NOTES:**

A. 2m (144) / 70cm (430)  
B. Input: SO-239/UHF (F) Output x2: PL-259/UHF (M)  
C. The SS770R will not work with the A430S15

A430S10 (above) and A430S15 (right) are shown mounted with side mount bracket KB430.

A430S10 x2  
Two A430S10s. Mounted with SB430 Stacking Boom, and SS770R Stacking Transformer.

A144S5 is shown mounted on side mount bracket KB144. Three minute assembly. Ideal for portable or emergency use. A144S10 (shown above)

A502HB Special Features:  
- High Gain  
- Easy Assembly  
- Great for base or portable use  
- Quality Construction  
- Factory adjusted - no tuning required.
**Mobile Antennas**

Whether you’re sitting in traffic talking with your buddies on 2m repeaters, or you scour the HF frequencies. Diamond Antenna has an antenna that will fit your needs.

From high gain monobands to low profile mag mount/antenna combos, to quad bands and screwdrivers, there is no comparison when it comes to putting a Diamond Antenna on your vehicle.

With a wide range of different mounts – magnet mounts, trunk lid, motorized, luggage racks, and more! -The possibilities are endless.

**SD330 Specifications:**
- 3.5-30MHz or 7-50MHz
- 200 Watts (SSB)
- 2.5 Pounds
- UHF or 3/8x24 connector
- 1/4λ center loading
- Less than 2.0 VSWR
- 73” @ 3 MHz, 66” @ 28 MHz
- See Page 17 for more information

**SD330**

**Screwdriver**

**HF Antenna**

SD330 can be used from 3.5-30 MHz

Included is an optional element (OPE750) which allows the SD330 to be used from 7-50 MHz

The SD330 features a heavy-duty PL-259 base connector.

It is also available with a 3/8x24 base connector.

**Mobile Antennas**

**Monoband Antennas**  Pg. 12

**Dualband Antennas**  Pg. 13-14

**Mag/antenna combos & Triband Antennas**  Pg. 15

**Quad/Multiband, HF-VHF Antennas**  Pg. 16-17

**Handheld HT Antennas**  Pg. 18
# Monoband Mobile Antennas

<table>
<thead>
<tr>
<th>Model</th>
<th>Bands</th>
<th>Gain/dBi</th>
<th>Max Pwr. Rating (watts)</th>
<th>Impedance</th>
<th>Length (inches)</th>
<th>Conn.</th>
<th>Element Phasing</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF6CL</td>
<td>6m</td>
<td>3</td>
<td>250 SSB-80 FM</td>
<td>50Ω</td>
<td>86.6</td>
<td>UHF</td>
<td>1/2λ, Radioless</td>
<td>A, B, E</td>
</tr>
<tr>
<td>HF10CL</td>
<td>10m</td>
<td>-</td>
<td>200 SSB-70 FM</td>
<td>50Ω</td>
<td>86.6</td>
<td>UHF</td>
<td>1/4λ, (21 - 21.45MHz)</td>
<td>A, B, D, E</td>
</tr>
<tr>
<td>HF15CL</td>
<td>21MHz</td>
<td>-</td>
<td>200 SSB-70 FM</td>
<td>50Ω</td>
<td>86.6</td>
<td>UHF</td>
<td>1/4λ, (18.068 - 18.168MHz)</td>
<td>A, B, D, E</td>
</tr>
<tr>
<td>HF17CL</td>
<td>18MHz</td>
<td>-</td>
<td>200 SSB-70 FM</td>
<td>50Ω</td>
<td>86.6</td>
<td>UHF</td>
<td>1/4λ</td>
<td>A, B, D, E</td>
</tr>
<tr>
<td>HF20CL</td>
<td>20m</td>
<td>-</td>
<td>200 SSB-70 FM</td>
<td>50Ω</td>
<td>86.6</td>
<td>UHF</td>
<td>1/4λ</td>
<td>A, B, D, E</td>
</tr>
<tr>
<td>HF30CL</td>
<td>10MHz</td>
<td>-</td>
<td>200 SSB-70 FM</td>
<td>50Ω</td>
<td>86.6</td>
<td>UHF</td>
<td>1/4λ</td>
<td>A, B, D, E</td>
</tr>
<tr>
<td>HF40CL</td>
<td>40m</td>
<td>-</td>
<td>200 SSB-70 FM</td>
<td>50Ω</td>
<td>86.6</td>
<td>UHF</td>
<td>1/4λ</td>
<td>A, B, D, E</td>
</tr>
<tr>
<td>HF80CL</td>
<td>80m</td>
<td>-</td>
<td>120 SSB-40 FM</td>
<td>50Ω</td>
<td>87.5</td>
<td>UHF</td>
<td>1/4λ</td>
<td>A, B, D, E</td>
</tr>
<tr>
<td>NR22L</td>
<td>2m</td>
<td>6</td>
<td>100 SSB-40 FM</td>
<td>50Ω</td>
<td>96.8</td>
<td>UHF</td>
<td>2-5/8λ</td>
<td>B</td>
</tr>
<tr>
<td>HF6FX</td>
<td>6m</td>
<td>2.15</td>
<td>250 FM</td>
<td>50Ω</td>
<td>44</td>
<td>UHF</td>
<td>1/4λ, Base loading</td>
<td>B, D</td>
</tr>
<tr>
<td>M285S</td>
<td>144-172</td>
<td>3.4</td>
<td>200 FM</td>
<td>50Ω</td>
<td>52.4</td>
<td>UHF</td>
<td>5/8λ</td>
<td>C</td>
</tr>
<tr>
<td>M285SNMO</td>
<td>144-172</td>
<td>3.4</td>
<td>200 FM</td>
<td>50Ω</td>
<td>52.4</td>
<td>NMO</td>
<td>5/8λ</td>
<td>C</td>
</tr>
<tr>
<td>M685S</td>
<td>6m</td>
<td>2.15</td>
<td>200 FM</td>
<td>50Ω</td>
<td>52.4</td>
<td>UHF</td>
<td>1/4λ</td>
<td>B, D</td>
</tr>
<tr>
<td>M685SNMO</td>
<td>6m</td>
<td>2.15</td>
<td>200 FM</td>
<td>50Ω</td>
<td>52.4</td>
<td>NMO</td>
<td>1/4λ</td>
<td>B, D</td>
</tr>
<tr>
<td>NR124N</td>
<td>23cm</td>
<td>8.4</td>
<td>100 FM</td>
<td>50Ω</td>
<td>25</td>
<td>N</td>
<td>4-5/8λ</td>
<td></td>
</tr>
<tr>
<td>NR124NMO</td>
<td>23cm</td>
<td>8.4</td>
<td>100 FM</td>
<td>50Ω</td>
<td>25</td>
<td>NMO</td>
<td>4-5/8λ</td>
<td></td>
</tr>
<tr>
<td>NR140BNMO</td>
<td>222-225 MHz</td>
<td>3.8</td>
<td>100 FM</td>
<td>50Ω</td>
<td>36.2</td>
<td>NMO</td>
<td>1/2λ, 1/4λ</td>
<td>Black</td>
</tr>
<tr>
<td>NR920</td>
<td>902-928 Mhz</td>
<td>7</td>
<td>50 SSB-150 FM</td>
<td>50Ω</td>
<td>28.9</td>
<td>N</td>
<td>3-5/8λ</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**

- A. HF Center Loading Series
- B. Not Recommended for Magnet Mounts
- C. Tunable w/ cutting chart
- D. Grounding Required
- E. Heavy Duty Foldover

Heavy duty hex screw type foldover for larger mobile antennas
## Dualband Mobile Antennas

<table>
<thead>
<tr>
<th>Model</th>
<th>Bands</th>
<th>Gain/dBi</th>
<th>Max Pwr. Rating</th>
<th>Height (inches)</th>
<th>Conn.</th>
<th>Element Phasing</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>NR72BNMO</td>
<td>2m/70cm</td>
<td>2.15/2.15</td>
<td>100</td>
<td>13.8</td>
<td>NMO</td>
<td>2m: 1/4λ; 70cm: 1/2λ</td>
<td>A, B Black</td>
</tr>
<tr>
<td>NR73BNMO</td>
<td>2m/70cm</td>
<td>2.15/5.3</td>
<td>100</td>
<td>33.5</td>
<td>NMO</td>
<td>2m: 1/2λ; 70cm: 2-5/8λ</td>
<td>Black</td>
</tr>
<tr>
<td>NR770HA</td>
<td>2m/70cm</td>
<td>3.0/5.5</td>
<td>200</td>
<td>38.2</td>
<td>UHF</td>
<td>2m: 1/2λ; 70cm: 2-5/8λ</td>
<td></td>
</tr>
<tr>
<td>NR770HB</td>
<td>2m/70cm</td>
<td>3.0/5.5</td>
<td>200</td>
<td>38.2</td>
<td>UHF</td>
<td>2m: 1/2λ; 70cm: 2-5/8λ</td>
<td>Black</td>
</tr>
<tr>
<td>NR770HNM MO</td>
<td>2m/70cm</td>
<td>3.0/5.5</td>
<td>200</td>
<td>40.2</td>
<td>NMO</td>
<td>2m: 1/2λ; 70cm: 2-5/8λ</td>
<td>Black</td>
</tr>
<tr>
<td>NR770HB NM O</td>
<td>2m/70cm</td>
<td>3.0/5.5</td>
<td>200</td>
<td>40.2</td>
<td>NMO</td>
<td>2m: 1/2λ; 70cm: 2-5/8λ</td>
<td>Black</td>
</tr>
<tr>
<td>NR7900A</td>
<td>2m/70cm</td>
<td>3.7/6.4</td>
<td>300/250</td>
<td>57</td>
<td>UHF</td>
<td>2m: 1/2λ + 1/4λ; 70cm: 3-5/8λ</td>
<td>A</td>
</tr>
</tbody>
</table>

**NOTES:**
- A. Not recommended for Magnet Mount.
- B. Grounding required

*More dualband antennas on pages 14-15*
## Dualband Mobile Antennas

<table>
<thead>
<tr>
<th>Model</th>
<th>Bands</th>
<th>Gain/dBi</th>
<th>Max Pwr. Rating</th>
<th>Height (inches)</th>
<th>Conn.</th>
<th>Element Phasing</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZ504FXH</td>
<td>2m/70cm</td>
<td>2.15</td>
<td>50</td>
<td>15.5</td>
<td>UHF</td>
<td></td>
<td>A, B</td>
</tr>
<tr>
<td>AZ504SP</td>
<td>2m/70cm</td>
<td>2.15</td>
<td>50</td>
<td>15.5</td>
<td>UHF</td>
<td></td>
<td>A, B, C</td>
</tr>
<tr>
<td>AZ507RSP</td>
<td>2m/70cm</td>
<td>2.15/4.9</td>
<td>50</td>
<td>27.5</td>
<td>UHF</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>SG7000A</td>
<td>2m/70cm</td>
<td>2.15/3.8</td>
<td>100</td>
<td>18.5</td>
<td>UHF</td>
<td></td>
<td>A, B</td>
</tr>
<tr>
<td>SG7500A</td>
<td>2m/70cm</td>
<td>3.5/6.0</td>
<td>150</td>
<td>40.6</td>
<td>UHF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SG7500NMO</td>
<td>2m/70cm</td>
<td>3.5/6.0</td>
<td>150</td>
<td>41</td>
<td>NMO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SG7900A</td>
<td>2m/70cm</td>
<td>5.0/7.6</td>
<td>150</td>
<td>62.2</td>
<td>UHF</td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>SG7900ANMO</td>
<td>2m/70cm</td>
<td>5.0/7.6</td>
<td>150</td>
<td>62.2</td>
<td>NMO</td>
<td></td>
<td>A</td>
</tr>
</tbody>
</table>

**NOTES:**

A. Not recommended for Magnet Mount  
B. Grounding required  
C. Spring above base

---

**NR Series**  
Fold Over

**Super Gainer Series**  
Fold Over
### Mag/Antenna Combos and Triband Mobile Antennas

<table>
<thead>
<tr>
<th>Model</th>
<th>Bands</th>
<th>Gain/dBi</th>
<th>Max Pwr. Rating</th>
<th>Height (inches)</th>
<th>Conn.</th>
<th>Element Phasing</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MR73SMA</td>
<td>2m/70cm</td>
<td>2.15/3.4</td>
<td>10</td>
<td>19.5</td>
<td>SMA (M)</td>
<td>2m: 1/4λ; 70cm: 5/8λ, Magnet</td>
<td>Black</td>
</tr>
<tr>
<td>MR73SJ</td>
<td>Same specs as MR73SA</td>
<td></td>
<td></td>
<td></td>
<td>SMA (F)</td>
<td>2m: 1/4λ; 70cm: 5/8λ, Magnet</td>
<td>Black</td>
</tr>
<tr>
<td>MR75SA</td>
<td>2m/70cm</td>
<td>2.15/3.4</td>
<td>35</td>
<td>20</td>
<td>SMA (M)</td>
<td>2m: 1/4λ; 70cm: 5/8λ, Magnet</td>
<td>Black</td>
</tr>
<tr>
<td>MR75SJ</td>
<td>Same specs as MR75SA</td>
<td></td>
<td></td>
<td></td>
<td>SMA (F)</td>
<td>2m: 1/4λ; 70cm: 5/8λ, Magnet</td>
<td>Black</td>
</tr>
<tr>
<td>MR77</td>
<td>2m/70cm</td>
<td>2.15/3.4</td>
<td>70</td>
<td>20</td>
<td>UHF</td>
<td>2m: 1/2λ; 70cm: 5/8λ, Magnet</td>
<td>Black</td>
</tr>
<tr>
<td>MR77SMA</td>
<td>Same specs as MR77</td>
<td></td>
<td></td>
<td></td>
<td>SMA (M)</td>
<td>2m: 1/2λ; 70cm: 5/8λ, Magnet</td>
<td>Black</td>
</tr>
<tr>
<td>MR77SMAJ</td>
<td>Same specs as MR77</td>
<td></td>
<td></td>
<td></td>
<td>SMA (F)</td>
<td>2m: 1/2λ; 70cm: 5/8λ, Magnet</td>
<td>Black</td>
</tr>
<tr>
<td>NR2000NA</td>
<td>2m/70cm/23cm</td>
<td>3.15/6.3/9.7</td>
<td>100</td>
<td>39</td>
<td>N</td>
<td>2m: 1/2λ; 70cm: 2-5/8λ; 23cm: 5-5/8λ</td>
<td>A,B, Black</td>
</tr>
<tr>
<td>CR320A</td>
<td>2m/1-1/4m/70cm</td>
<td>2.15/3.8/5.5</td>
<td>200/200/100</td>
<td>37.4</td>
<td>UHF</td>
<td>2m: 1/4λ; 1-1/4m: 1/2λ; 70cm: 2-5/8λ</td>
<td>A,B, Black</td>
</tr>
<tr>
<td>CR320BMO</td>
<td>2m/1-1/4m/70cm</td>
<td>2.15/3.8/5.5</td>
<td>200/200/100</td>
<td>37.4</td>
<td>NMO</td>
<td>2m: 1/4λ; 1-1/4m: 1/2λ; 70cm: 2-5/8λ</td>
<td>A,B, Black</td>
</tr>
<tr>
<td>CR627B</td>
<td>2m/70cm/6m</td>
<td>4.5/7.2/2.15</td>
<td>120</td>
<td>60</td>
<td>UHF</td>
<td>2m: 3-1/4λ; 70cm: 3-5/8λ; 6m: 1/4λ</td>
<td>A,B, Black</td>
</tr>
<tr>
<td>CR627BMO</td>
<td>2m/70cm/6m</td>
<td>4.5/7.2/2.15</td>
<td>120</td>
<td>60</td>
<td>NMO</td>
<td>2m: 3-1/4λ; 70cm: 3-5/8λ; 6m: 1/4λ</td>
<td>A,B, Black</td>
</tr>
</tbody>
</table>

**NOTES:**
- A. Not recommended for Magnet Mount.
- B. Grounding required

*MR73 Adjustable hinge for multiple mounting options

*MR75 Adjustable wing nut hinge for multiple mounting options

*MR Series antennas in SMA versions are perfect for connecting to your SMA handheld radios such as Baofeng & Wouxon

![Image of MR73SMA and MR73SJ antennas](image1)

![Image of MR75S and MR75J antennas](image2)

![Image of CR320A and CR320BM No antennas](image3)

![Image of CR627B and CR627BM No antennas](image4)
D220R Mobile Scanner Antenna

The D220R mobile discone antenna offers outstanding broadband reception performance from 100MHz to 1600MHz.

The discone is vertically polarized and omnidirectional.

The upper element is tuned for the 144, 440, 902 and 1.2Ghz ham bands, and allows you to transmit at a maximum power level of 50 watts.

The antenna is recommended to be mounted on the Diamond K400/K600 series of mounts and will withstand wind speeds in excess of 100MPH.

Assembles in just minutes!

Quad / Multiband HF-VHF Mobile Antennas

<table>
<thead>
<tr>
<th>Model</th>
<th>Bands</th>
<th>Gain/dBi</th>
<th>Max Pwr. Rating</th>
<th>Height (Inches)</th>
<th>Conn.</th>
<th>Element Phasing</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CR8900A</td>
<td>10m/6m/2m/70cm</td>
<td>2.15(10m/6m/2m)</td>
<td>5.5(70cm)</td>
<td>60</td>
<td>50</td>
<td>UHF</td>
<td>A, B, C, E</td>
</tr>
<tr>
<td>D220R</td>
<td>100-1600 MHz</td>
<td>2.15(144/904/1200MHz) 3.4(440MHz)</td>
<td>50</td>
<td>27.5</td>
<td>UHF</td>
<td>Wideband Discone</td>
<td>144: 1/2λ, 440: 5/8λ, A</td>
</tr>
<tr>
<td>SD330</td>
<td>3-30 MHz</td>
<td>-</td>
<td>200 (SSB)</td>
<td>66-73</td>
<td>UHF or 3/8x24</td>
<td>Center Loading</td>
<td>A</td>
</tr>
<tr>
<td>HV7A</td>
<td>10m/6m/2m/70cm</td>
<td>2.15(10m/6m/2m)</td>
<td>5.5(70cm)</td>
<td>54</td>
<td>UHF</td>
<td>10m/6m: 1/4λ; 2m: 1/2λ; 70cm: 2-5/8λ</td>
<td>A, B, D</td>
</tr>
</tbody>
</table>

Optional loading coils for HV7A & MV3A

<table>
<thead>
<tr>
<th>Model</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVC7</td>
<td>40m Loading Coil</td>
</tr>
<tr>
<td>HVC14</td>
<td>20m Loading Coil</td>
</tr>
<tr>
<td>HVC18</td>
<td>17m Loading Coil</td>
</tr>
<tr>
<td>HVC21</td>
<td>15m Loading Coil</td>
</tr>
</tbody>
</table>

NOTES:

A. Not recommended for Magnet Mount.  B. Grounding required  C. 6m adjustable  D. Heavy Duty Foldover  E. 6m and 10m FM only.

CR8900A
Antenna designed specifically for the Yaesu FT8900.

The CR8900A is pretuned to give best bandwidth and VSWR over the FM portions of 10m, 6m, 2m, and 70cm ham bands when mounted on the side of vehicle (i.e. trunk lid. Not recommended for through the roof mounts.) Use K400 or K600 series mounts.

Band: 10m/6m/2m/70cm
Gain (dBi): 2.15(10m/6m/2m); 5.5(70cm)
Watts: 60
Connector: UHF (PL-259)
Height: 50"
Element: 1/4λ-10/6; 1/2λ-2m; 2-5/8λ-70cm

Tip: For best performance, make sure CR8900A is securely grounded to your vehicle before tuning the 6m and 10m portions of the antenna. (Side vehicle mounting recommended in most cases)
**Quad / Multiband HF-VHF Mobile Antennas**

Quad / Multi-band HF-VHF Mobile Antennas

**Diamond HV7A Mobile Antenna System for HF/VHF Transceivers**

The HV7A is a mobile antenna system with 5 band capability: 70cm, 2m, 6m, and 2 HF bands. Ideal for users of Icom IC706, IC7000 series and Yaesu FT100, FT857, FT8900 and similar transceivers. Addition of MX62M duplexer couples HF/VHF outputs to single coaxial connection. Unlike other multi-band antennas, the HV7A has no moving of connections, switches, jumpers, etc. Fold-over hinge allows for easy access into low over-head buildings.

### Bands Supplied:

- 10m/6m/2m/70cm
- 7-50 MHz with OPE750

### Power, P.E.P.:

- HF: 120w
- VHF: 200w

### Mount Connection:

- UHF (SO-239)

### Length:

- 54"

### SWR:

- 1.5:1 nominal

### Suggested Mount:

- K400 Series

*For best performance antenna needs to be securely grounded.

*Each Band may be independently tuned.

### SD330 / SD330-3/8 Screwdriver Antenna

The SD330 can be used from 3.5-30 MHz. If using element OPE750 (included) instead of original element, it can be used from 7-50 MHz.

OPE750 element is 17” shorter than original. To change element, you only need to loosen one set screw.

The SD330 uses the car body for its ground. The bracket and the car body need to be well grounded.

Recommend using the Diamond K400 series mounts.

### Band:

- 3-30 MHz
- 7-50 MHz with OPE750

### Height:

- 66" @ 28 MHz
- 73" @ 3 MHz

### Height w/ OPE750:

- 49" @ 50 MHz
- 56" @ 7 MHz

**Power supply voltage & current:** DC 12V 100mA

The SD330 includes cigarette lighter adapter for the up and down movement switch.

Up - down time: Approximately 50 seconds (3-30MHz)

Approximately 20 seconds (7-30MHz)
Handheld HT Antennas

RH789 & SRH789 HT Telescoping Antennas

95MHz to 1100MHz, AM/FM receiving (at full length), omnidirectional, telescoping, folds at base

**RH789** Connector: BNC

**SRH789** Connector SMA (M)

- **Bands**: 1/4λ (95 to 300 MHz) / 1/2λ (300 to 1100 MHz)
- **Gain (relative)**: 2.15dBi / 3.2 dBi
- **Impedance**: 50 Ω
- **Max Power Rating**: 10 watts
- **Length**: 7.9” (retracted), 31.7” (extended)
- **6 stage telescoping**
- **Weight**: 1 oz.

### Model | Bands (relative) | Gain (dB) | Power Rating (watts) | Length (inches) | Conn. | Description
--- | --- | --- | --- | --- | --- | ---
RH205 | 2m | +9 | 10 | 9.1 / 52.8 | BNC | 1/4λ Retracted / 5/8λ extended. 10 stage telescoping. Retracted / 5/8λ extended. 10 stage telescoping.
RH3 | 2m/70cm | -2 | 10 | 1.75 | BNC | "Black Bullet", + 120-900 receive, compact design.
RH519 | 2m/70cm | +3 | 10 | 8 | BNC | Flexible slim design
RH707 | 2m/70cm | +3 | 10 | 8.25 | BNC | Tiltable whip
RH789 | VHF/UHF | +6/+9 | 10 | 7.9 / 31.7 | BNC | See Below
RH77CA | 2m/70cm | +6 | 10 | 15 | BNC | High Gain + Receive to 900 MHz
RH7F40 | 2m/70cm | +6 | 10 | 16 | BNC | High Gain + Receive to 900 MHz Extremely Flexible.
RH7F10 | 2m/70cm | - | 6 | 2.75 | BNC | Air band 150/300/450/800/900 MHz (rec.)
RH515S | 2m/70cm/23cm | +6 | 10 | 14 | BNC | High Gain Tri-band. Flexible slim design.
SRH229 | 222-900 MHz | +4 | 10 | 13.75 | SMA (M) | High Gain, Flexible Whip. For ALINCO DJ-G29T
SRH519 | 2m/70cm | +3 | 10 | 7.75 | SMA (M) | Flexible slim design
SRH789 | VHF/UHF | +6/+9 | 10 | 7.9 / 31.7 | SMA (M) | See Below
SRH77CA | 2m/70cm | +6 | 10 | 15 | SMA (M) | High Gain + Receive to 900 MHz
SRHF10 | 2m/70cm | - | 6 | 2.75 | SMA (M) | Air band 150/300/450/800/900 MHz (rec.)
SRH320A | 2m/1-1/4m/70cm | +3 | 10 | 13.75 | SMA (M) | Tri-band, flexible slim design with SMA
SRH701 | 2m/70cm | - | 10 | 7.5 | SMA (M) | 2m: 1/4λ; 70cm 1/2λ.
SRH779 | 2m/70cm | - | 10 | 6.3 / 17.3 | SMA (M) | 2m: 1/4λ; 70cm 1/2λ. telescoping
SRH805 | 2m/70cm/23cm | -2 | 10 | 1.75 | SMA (M) | Tri-band compact design
SRH815 | 2m/70cm/23cm | +3 | 10 | 6 | SMA (M) | Tri-band, flexible slim design with SMA
SRHF40 | 2m/70cm | +6 | 10 | 16 | SMA (M) | Tri-band, High Gain
SRHH999 | 6m/2m/70cm/23cm | +4 | 10 | 19.5 | SMA (M) | Quadband High Gain
SRJF10 | 2m/70cm | - | 6 | 2.75 | SMA (F) | Air band 150/300/450/800/900 MHz (rec.)
SRJ77CA | 2m/70cm | +6 | 10 | 15 | SMA (F) | High Gain + Receive to 900 MHz
SRJF40 | 2m/70cm | +6 | 10 | 16 | SMA (F) | High Gain + Receive to 900 MHz Extremely Flexible.

**NOTES:**
Relative gain is Diamonds performance vs. typical stock HT antennas (rated at 0dB). - The SRJ’s are made for radios with SMA male connector. (BAOFENG, WOUXON)
All Diamond C-Series Cables are made in the U.S.A. The C101, C211 and C213 fit all diamond mounts (except K600). Use of very flexible RG-316 Mil-spec Teflon® Coax. With SMA and mini-UHF connectors, wiring your antenna through tight body panels has never been easier. C101 & NMO, C213 & NMO, C101 3/8C Kit, and C211 all have a special low-loss PL-259 adapter included. C110BNC & C110SMA are great cable extensions for attaching your mobile antenna to your handheld radio!

<table>
<thead>
<tr>
<th>Adapter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BNCJ-SMAP</td>
<td>For SMA radios to use BNC antennas. (SMA(M) - BNC(F))</td>
</tr>
<tr>
<td>BNCP-SMAJ</td>
<td>For BNC radios to use SMA antennas. (BNC(M) - SMA(F))</td>
</tr>
<tr>
<td>SMAJ-SMAJ</td>
<td>(SMA(F) - SMA(F)) For Baofeng, Wouxon, Quansheng radios to use SMA(M) HT antennas. Sleek, low profile.</td>
</tr>
<tr>
<td>DIA3824</td>
<td>PL-259 to 3/8x24 adapter Adapts a SO-239 connector to a male or female 3/8x24 antenna. Comes with washer, nut, and threadlock.</td>
</tr>
<tr>
<td>RSA-3474</td>
<td>SMA(F) to PL-259. Comes in Diamond S Series Mounts</td>
</tr>
<tr>
<td>RFU-645</td>
<td>Mini-UHF(M) to PL-259. Comes in Diamond C Series Mounts</td>
</tr>
</tbody>
</table>
## Commercial Antennas
### Mount Brackets

<table>
<thead>
<tr>
<th>Model</th>
<th>Bands</th>
<th>Gain/dBi</th>
<th>Max Pwr. Rating</th>
<th>Wind Rating</th>
<th>Height</th>
<th>Conn.</th>
<th>Element Phasing</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>F23H</td>
<td>144-174 MHz</td>
<td>7.8</td>
<td>350</td>
<td>90</td>
<td>15’</td>
<td>UHF</td>
<td>3-5/8λ</td>
<td>A, B</td>
</tr>
<tr>
<td>X50C2</td>
<td>146-155 / 450-465 MHz</td>
<td>4.5/7.2</td>
<td>200</td>
<td>135</td>
<td>5.6’</td>
<td>UHF / N</td>
<td>146MHz: 3-1/4λ; 450MHz: 3-5/8λ</td>
<td>C</td>
</tr>
<tr>
<td>BC103</td>
<td>143-176 MHz</td>
<td>2.5/3.2</td>
<td>300</td>
<td>135</td>
<td>4.1’</td>
<td>UHF</td>
<td>1/2λ-5/8λ; Radialess, Less than 2.0 VSWR</td>
<td>D</td>
</tr>
<tr>
<td>M285S</td>
<td>144-172 MHz</td>
<td>3.4</td>
<td>200</td>
<td>-</td>
<td>52.4’</td>
<td>UHF</td>
<td>5/8λ</td>
<td>B</td>
</tr>
<tr>
<td>M285SNMO</td>
<td>144-172 MHz</td>
<td>3.4</td>
<td>200</td>
<td>-</td>
<td>52.4’</td>
<td>NMO</td>
<td>5/8λ</td>
<td>B</td>
</tr>
</tbody>
</table>

### NOTES:
- **A.** High Power
- **B.** Tunable with cutting chart
- **C.** X50C2 tuned for commercial freq. Available in UHF or Type N
- **D.** No Tuning Required

---

**Commercial Antennas:** High power antennas, such as the F23H and mobile antennas like the M285S and M285SNMO, include cutting charts which allows you to tune the antenna into the commercial and marine band frequencies.

The X50C2 is our standard X50, but it is factory tuned for commercial use. The BC103 is wideband and requires no tuning to work within the given frequencies!

---

**S1 Mast Bracket:**
- Zinc Diecast
- Fits mast sizes of 1.2’ to 2.4’
- Max antenna load must be less than 6.5’ in total length
- Antenna must be 2.2 lbs and under in total weight
Mobile Installation Ideas

Here is a few different examples of ways you can use Diamond Antenna Mounts and Antennas!

Don’t have any room or a spot to mount on your truck? Here is a K400SNO and an SG7900ANMO mounted to the tailgate of a Ford Ranger. (some mount modification may be required for this installation)

Whatever vehicle you have, Diamond Antenna can get a mount, and mobile antenna to fit your needs!

Multiple Uses! You can use the SMA from the S series mounts to plug your mobile antenna’s coax directly into your handheld radio!

Need a heavy duty mount for your CB whip? The K400-3/8C or K400-3/8C2 is the perfect mount for you. Here is one mounted to the hatch of a Jeep Grand Cherokee 4x4. This mount will take all the abuse you can dish out on your next off-roading adventure!

The possibilities are endless!

Here is a K9000TM mounted with a SG7500 Series antenna. 20’ of cable for the switch will make sure you have enough to get the switch right where you need it.

Need a slick low profile mount for your sweet ride? The K600 Series mount is the perfect low profile mount. Slim line design, and the angled washers give you up to 9° of adjustment for your antenna.

Photo Courtesy: Kelley Miller, K5KTX

This SD330 is mounted on the trunk lip of a Dodge Challenger with a K400C mount. The rubber pad attached under the mount ensures there will be no paint scratched. With the radio mounted in the front of the vehicle a C110 was used to extend the cable to the front.

Travel the country a lot? Well check out this K400 holding one of Diamonds new HF Center Loading Series antennas on the bumper of this camper.*

*Although not a recommended mounting location for an antenna, this installation met the users expectations.
K400 Series
Heavy Duty Trunk Lid & Hatchback Mount

Diamond Antennas K400 mount is the strongest, most durable trunk lid & hatchback mount on the market. It is also the most universal mount, featuring a 2-axis adjustment, giving you the freedom to install it anywhere and allow antenna to still be vertical. The K400 features a rubber mounting pad, so you don’t have to worry about it scratching or damaging your paint! 4 heavy duty set screws insure that once mounted, the K400 is going to be secure.

The K400 is available in whatever connection type you need: UHF, NMO, or even 3/8x24 guaranteeing that the K400 will be the last mount you ever purchase.

<table>
<thead>
<tr>
<th>Model</th>
<th>Base Connector</th>
<th>Cable</th>
<th>Cable Length (ft)</th>
<th>End Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>K400</td>
<td>Mount Only</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K400C</td>
<td>SO-239 UHF</td>
<td>RG-316</td>
<td>6.5</td>
<td>Mini-UHF (F)</td>
</tr>
<tr>
<td>K400S</td>
<td>SO-239 UHF</td>
<td>RG-316</td>
<td>13.5</td>
<td>SMA (M)</td>
</tr>
<tr>
<td>K400CNMO</td>
<td>NMO</td>
<td>RG-316</td>
<td>6.5</td>
<td>Mini-UHF (F)</td>
</tr>
<tr>
<td>K400SNMO</td>
<td>NMO</td>
<td>RG-316</td>
<td>13.5</td>
<td>SMA (M)</td>
</tr>
<tr>
<td>K400-3/8C</td>
<td>3/8x24</td>
<td>RG-316</td>
<td>6.5</td>
<td>Mini-UHF (F)</td>
</tr>
<tr>
<td>K400-3/8C2</td>
<td>3/8x24</td>
<td>RG-316</td>
<td>13.5</td>
<td>Mini-UHF (F)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Base Connector</th>
<th>Cable</th>
<th>Cable Length (ft)</th>
<th>End Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>K600S</td>
<td>Stainless steel mount assembly</td>
<td>SO-239 UHF</td>
<td>13.5’ RG-316 Mil-spec Teflon Coax</td>
<td>SMA (M) end connection</td>
</tr>
<tr>
<td>K600M</td>
<td>Stainless steel mount assembly</td>
<td>SO-239 UHF</td>
<td>16.5’ two-step cable assembly</td>
<td>RG-188 &amp; low loss 7mm 5D cable</td>
</tr>
</tbody>
</table>

K600 Series
Heavy Duty Variable Angle Trunk Mount

Diamond Antennas K600 is a deluxe, heavy duty trunk lip mount. It has a sleek aerodynamic design. Two angle washers at the base of the connector give you the freedom of a 0-90° angle of adjustment in any direction you need.

The K600 comes in two different versions:

K600S Features:
- Stainless steel mount assembly
- SO-239 base connection
- Four set screws for secure mounting
- 13.5’ RG-316 Mil-spec Teflon Coax
- SMA (M) end connection
- PL-259 adapter.

K600M Features:
- Stainless steel mount assembly
- SO-239 base connection
- Four set screws for secure mounting
- 16.5’ two-step cable assembly
- RG-188 & low loss 7mm 5D cable
- PL259 end connection
Mobile Antenna Mounts

K412 Series

Medium Duty Trunk Lid & Hatchback Mount

The Diamond K412 Series mounts are medium duty trunk lid and hatchback mounts. They feature a three-axis adjustment for placement anywhere you need. If your antenna doesn’t feature a fold over, then this is the mount for you. The wing nut allows you to use the mount as a fold over for ease in negotiating low overhead buildings and structures.

The K412 is compact and ideal for tight mounting options. 1.5 inch mounting width. Recommended for antennas under 45”

<table>
<thead>
<tr>
<th>Model</th>
<th>Base Connector</th>
<th>Cable</th>
<th>Cable Length (ft)</th>
<th>End Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>K412C</td>
<td>SO-239 UHF</td>
<td>RG-316</td>
<td>6.5</td>
<td>Mini-UHF (F)</td>
</tr>
<tr>
<td>K412S</td>
<td>SO-239 UHF</td>
<td>RG-316</td>
<td>13.5</td>
<td>SMA (M)</td>
</tr>
<tr>
<td>K412CNMO</td>
<td>NMO</td>
<td>RG-316</td>
<td>6.5</td>
<td>Mini-UHF (F)</td>
</tr>
<tr>
<td>K412SNMO</td>
<td>NMO</td>
<td>RG-316</td>
<td>13.5</td>
<td>SMA (M)</td>
</tr>
</tbody>
</table>

NOTES:

- All RG-316 is Mil-spec Teflon® Coax...
- K412 series comes with a PL-259 adapter.

K515 Series

Deluxe Luggage Carrier Mount

Ideal for newer SUV designs

K515S
Features:
- Black finish
- 1.5 inch mounting width
- Two-axis adjustable
- Wing nut for fold-over
- SO-239 base connection
- 13.5 RG-316 Mil-spec Teflon Coax
- SMA (M) end connection
- PL-259 adapter.

K515SNMO
Features:
- Black finish
- 1.5 inch mounting width
- Two-axis adjustable
- Wing nut for fold-over
- NMO base connection
- 13.5 RG-316 Mil-spec Teflon Coax
- SMA (M) end connection
- PL-259 adapter.

Both include:
- Allen wrenches
- Mounting hardware
- Adhesive cable holders

Mirror and Luggage Rack Mounts

K540
Deluxe, adjustable Mirror/Luggage Rack mount with the wing nut antenna fold over feature. Fits 1/2” to 7/8” tubing mirrors or utility racks. Black finish. Recommended for lightweight to medium size antennas (up to 45”)

K550 and K550L
Deluxe, adjustable Luggage Rack mount with wing nut antenna fold over feature. Ideal for minivan racks. Black finish. K550L for luggage racks over 2” in diameter Recommended for lightweight and medium size antennas (up to 45”)

CRM
Stainless Steel right angle mount with U-bolt. Recommended for:
- Motorhome ladders
- Luggage racks
- Balcony railings
- Lumber racks
- Pipe racks

* Where mounting source does not provide adequate ground, use non-radial type antenna.
Specialty Antenna Mounts

K9000 Series
Motorized Mount

Raise and lower your antenna with a touch of a button using Diamond’s K9000 motorized mount.

Available Options:
K9000TM: Trunk Lip mount
K9000LRM: Luggage Rack Mount
K9000LRMO: Luggage Rack Mount, Oversize

Specifications:
• Accepts “Ground Independent” antennas up to 45” in length
• 0-90° Range. Operates from 12VDC with fused cigarette plug. Includes 20’ cable to switch.
• Compatible with Diamond C-series SO-239 cable assemblies.
• Recommended antennas:
  AZ507RSP, NR770 Series, SG7500A,
• NMO compatible with custom NMO cable from Diamond Antenna

Special Features:
• The mount bracket has a spring-type back torque limiter which can prevent the antenna from rattling and protect the car and mount bracket.
• A protective rubber sheet is attached to K9000TM bracket which reduces possible discolorations or scratching of painted surfaces.
• The mount bracket is fully adjustable from angles 45-90°. You can choose from 7 levels of adjustment with the control knob (on side of motor drive).
• For simple wiring of motor drive, a cigar plug is included. Mounting bracket and base fitment assemblies are separate for easy angle adjustment.

HRKS
Adhesive Backed Mount

3M Adhesive backed for flat surface installations including glass, fiberglass, and metal.

Specifications:
  - SO-239 base connection
  - Two-axis of adjustment
  - Wing nut for fold-over
  - 13.5 RG-316 Mil-spec Teflon Coax
  - SMA (M) end connection
  - PL-259 adapter.

Recommended antennas:
NR770HA, NR770HB, AZ507RSP, SG7500A

Available Options:
HRKS: Mount with cable assembly
NR770HRKS: Mount, cable assembly, and NR770HB 2m/70cm mobile antenna
Diamond’s SPM series magnet mounts are the toughest and most durable around. With a very strong magnet in a durable plastic case, THIS IS ONE TOUGH MAGNET MOUNT.

The SPM/DPK weighs in at 2.2 lbs, 4" diameter, and are rated 25-500 MHz. Available in SO-239, Type-N, and NMO connectors. Recommended for antennas up to 45”.

Available Options:
- SPM35: SO-239 base, 13’ 3.5D-2V coax & PL-259
- SPMNMO: NMO base, 13’ 3.5D-2V coax & PL-259
- DPK4-NM-N: Type-N female base, 13’ 3.5D-2V coax & Type-N Male

Tip: PL-259 and Type-N connectors can be disassembled to run the cable through tight holes during installation.

K702M Deluxe Magnet Mount

Deluxe low profile magnet mount. Combines the holding power of a magnet and a vacuum suction from specially designed base. For ease of removal, vacuum may be released by lifting tab (shown below).

Aerodynamic styling, large 6 3/8’ diameter, 3/4’ tall. Recommended for VHF/UHF antennas up to 50’ in height. Includes a thin mylar protective sheet to enhance grip and protect paint.

Cable: 13’ RG58A/U and PL-259
## Duplexers & Triplexers

<table>
<thead>
<tr>
<th>Model</th>
<th>Port</th>
<th>Frequency MHz</th>
<th>Power Rating (ICAS)</th>
<th>Insertion Loss dB</th>
<th>Isolation dB</th>
<th>Mix Connection</th>
<th>Port Connections</th>
</tr>
</thead>
<tbody>
<tr>
<td>MX37</td>
<td>LPF</td>
<td>1.6-470</td>
<td>100</td>
<td>.25</td>
<td>45</td>
<td>N-Jack (F)</td>
<td>PL-259 / 12&quot; 5D cable</td>
</tr>
<tr>
<td></td>
<td>HPF</td>
<td>900-1300</td>
<td>50</td>
<td>.45</td>
<td>45</td>
<td>N-Male / 12&quot; 5D cable</td>
<td></td>
</tr>
<tr>
<td>MX214</td>
<td>LPF</td>
<td>140-250</td>
<td>150</td>
<td>.3</td>
<td>40</td>
<td>SO-239</td>
<td>PL-259 / No cable</td>
</tr>
<tr>
<td></td>
<td>HPF</td>
<td>200-225</td>
<td>200</td>
<td>.4</td>
<td>40</td>
<td>SO-239</td>
<td>PL-259 / 12&quot; 5D cable</td>
</tr>
<tr>
<td>MX62M</td>
<td>LPF</td>
<td>1.6-66</td>
<td>200</td>
<td>.2</td>
<td>50</td>
<td>SO-239</td>
<td>PL-259 / 12&quot; 5D cable</td>
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<tr>
<td></td>
<td>HPF</td>
<td>76-470*</td>
<td>200</td>
<td>.3</td>
<td>50</td>
<td>SO-239</td>
<td>PL-259 / 12&quot; 5D cable</td>
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<tr>
<td>MX72D</td>
<td>LPF</td>
<td>1.6-30</td>
<td>400</td>
<td>.1</td>
<td>60</td>
<td>SO-239</td>
<td>PL-259 / 12&quot; 5D cable</td>
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<td></td>
<td>HPF</td>
<td>140-150</td>
<td>150</td>
<td>.1</td>
<td>60</td>
<td>SO-239</td>
<td>PL-259 / 12&quot; 5D cable</td>
</tr>
</tbody>
</table>

**NOTES:** VSWR: 1.2:1 (nominal) Impedance: 50 ohm  
*76-120 MHz Receive only

### MX72 Style

- **MX214**
- **MX37**

### Triplexer Style

- **MX62M**
- **MX610**
- **MX324**

UHF Connector for Duplexers and Triplexers
# Power and SWR Meters

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency, MHz</th>
<th>Power Range</th>
<th>Min. Power for SWR Test</th>
<th>Conn.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SX100</td>
<td>1.6-60</td>
<td>30/300/3KW</td>
<td>20W</td>
<td>S0-239</td>
<td></td>
</tr>
<tr>
<td>SX200</td>
<td>1.8-200</td>
<td>5/20/200</td>
<td>15W</td>
<td>S0-239</td>
<td></td>
</tr>
<tr>
<td>SX400</td>
<td>140-525</td>
<td>5/20/200</td>
<td>15W</td>
<td>S0-239</td>
<td></td>
</tr>
<tr>
<td>SX600</td>
<td>1.8-160/140-525</td>
<td>5/20/200</td>
<td>15W</td>
<td>S0-239</td>
<td></td>
</tr>
<tr>
<td>SX1100</td>
<td>1.8-160/430-450/1240-1300</td>
<td>5/20/200</td>
<td>15W</td>
<td>HF-VHF: S0-239</td>
<td>UHF: Type-N(female) Connectors</td>
</tr>
<tr>
<td>SX20C</td>
<td>3.5-30/50-54/130-150</td>
<td>30/200</td>
<td>5W</td>
<td>S0-239</td>
<td></td>
</tr>
<tr>
<td>SX40C</td>
<td>144-470</td>
<td>30/200</td>
<td>5W</td>
<td>S0-239</td>
<td>220 MHz uses a correction factor.</td>
</tr>
<tr>
<td>SX240C</td>
<td>1.8-54/140-470</td>
<td>30/200/3KW</td>
<td>10W</td>
<td>S0-239</td>
<td>220 MHz uses a correction factor. 3KW+HF only.</td>
</tr>
</tbody>
</table>

SX20C and SX40C- 5W minimum, 10W for best accuracy

Diamond Antenna models SX-100 through SX1100 meters measure forward and reflected power and VSWR. Compact size makes meter useful for testing both base and mobile installations. Illuminated meter, switchable r.m.s. or peak power. SX600 and SX1100 have two directional couplers selectable by switch with LED indicators for coupler I.D. of two transceivers. 12VDC @ 50mA is required if illuminated display is desired.

SX Meter Dimensions: 6”W x 2”H x 4”D, 2 lbs.

**SX20C, SX40C, SX240C**

**SWR / Power Meters**

The SX20C, SX40C, and SX240C are compact SWR-power meters, featuring cross needle design for measuring SWR and output power simultaneously.

Compact size makes them very useful for testing mobile as well as base station installation. The SX240C also features a 3KW power range for HF use.
Switching Mode DC Power Supply

GZV4000 and GZV6000

Did you know?:
GZV4000 is also available in 220 Volt only version.
(GZV4000-220)

GZV4000 (40 Amp)

GZV4000 Features:

- Weight: 8 lbs.
- Size 8.25” x 4.5” x 13”
- 40 Amp continuous rating, 100% duty cycle.
- Variable Voltage Control 5-15 VDC
- Accepts 95-145 VAC input
- Overload & short-circuit protection with Voltage Foldback at approximately 42 Amp
  (see below for additional features)

Both Models Feature:

- Voltage Control Knob has center detent at 13.5 VDC
- Over Temperature Protection
- Meter Selector allows monitoring of voltage & current
- Built in 8Ω, .5W speaker
- Access to front panel DC terminals and cigarette lighter jack; high current terminals on rear panel
- Circuitry yields high RFI protection from external sources
- AC line filter for EMI protection
- Standard 3-wire heavy duty line cord
- Power indicator & overload indicator
- Ripple & Noise less than 8 mV r.m.s.
- 1 year limited warranty

GZV6000 (60 Amp)

GZV6000 Features:

- Weight: 12.8 lbs.
- Size 8.25” x 4.5” x 16”
- 60 Amp continuous rating, 100% duty cycle.
- Variable Voltage Control 1-15 VDC
- Overload & short-circuit protection with Voltage Foldback at approximately 62 Amp
- 100-240 VAC 50-60 Hz input
**Accessories**

**DL30**

**Compact Dummy Load**

**DL30A:**
- DC - 500 MHz
- 15 Watts continuous, 100 watts peak (intermittent)
- Connector: PL-259 (UHF Male)
- Impedance: 50Ω
- VSWR: 1.15
- 1.18” diameter x 2.95” length

**DL30N:**
- DC - 500 MHz
- 15 Watts continuous, 100 watts peak (intermittent)
- Connector: Type-N Male
- Impedance: 50Ω
- VSWR: 1.15
- 1.18” diameter x 2.95” length

**MGC50**

**Through Window/Door Assembly**

**MGC50 Specifications:**
- DC - 1500 MHz
- Power: HF to 50MHz: 150W (SSB), 50W(FM/CW)
  144MHz: 40W (FM), 440MHz:30W (FM)
  1200MHz: 10W (FM)
- Length: 19.7” between the connectors
- Weight: 3.6 oz.
- Connector: UHF Female to UHF Female
- Impedance: 50Ω
- VSWR: HF up to 500MHz: less than 1.2
  500 to 1000MHz: Less than 1.3
  Up to 1000MHz: Less than 2.0
  1200MHz: Less than 1.7
- Ins. Loss: 144MHz: Less than 0.3dB
  440MHz: Less than 0.6dB
  1200MHz: Less than 1.6dB

**CX Series**

**Heavy Duty Wideband Coax Switches**

**CX210A:**
- DC-1000MHz
- 1.5KW
- SO-239 (UHF Female)

**CX210N:**
- DC-1500MHz
- 1.5KW
- Type-N Female

**CX210N Connectors**
- **CX210A:**
  - DC-800MHz
  - 1.5KW: DC-30MHz
  - 1KW: 30-150MHz
  - 500W: 150-800MHz
  - SO-239 (UHF Female)

**CX210A/CX310A Connectors**

**CX310A**
Lightning Surge Protectors

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency</th>
<th>SWR</th>
<th>Insertion Loss</th>
<th>Max Pwr. Rating</th>
<th>Connector</th>
<th>I.W.D.V.</th>
<th>I.W.D.C.</th>
<th>I.W.R.D.C.</th>
<th>Insulating Resistance DC100v</th>
<th>Imped</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP1000</td>
<td>DC-1000 MHz</td>
<td>&lt; 1.1</td>
<td>&lt; 0.2dB</td>
<td>400w PEP</td>
<td>UHF (F) to UHF (F)</td>
<td>1000v</td>
<td>6000A</td>
<td>DC350v ± 20%</td>
<td>Over 10,000M Ω</td>
<td>50Ω</td>
</tr>
<tr>
<td>SP1000PW</td>
<td>DC-1000 MHz</td>
<td>&lt; 1.2</td>
<td>&lt; 0.3dB</td>
<td>400w PEP</td>
<td>UHF (F) to UHF (M)</td>
<td>800v</td>
<td>6000A</td>
<td>DC350v ± 20%</td>
<td>Over 10,000M Ω</td>
<td>50Ω</td>
</tr>
<tr>
<td>SP3000</td>
<td>DC-3000 MHz</td>
<td>&lt; 1.1</td>
<td>&lt; 0.2dB</td>
<td>200w PEP</td>
<td>N (F) to N (F)</td>
<td>1000v</td>
<td>6000A</td>
<td>DC230v ± 20%</td>
<td>Over 10,000M Ω</td>
<td>50Ω</td>
</tr>
<tr>
<td>SP3000P</td>
<td>DC-3000 MHz</td>
<td>&lt; 1.2</td>
<td>&lt; 0.3dB</td>
<td>400w PEP</td>
<td>N (F) to N (M)</td>
<td>1000v</td>
<td>6000A</td>
<td>DC350v ± 20%</td>
<td>Over 10,000M Ω</td>
<td>50Ω</td>
</tr>
<tr>
<td>SP3000W</td>
<td>DC-3000 MHz</td>
<td>&lt; 1.1</td>
<td>&lt; 0.2dB</td>
<td>200w PEP</td>
<td>N (F) to N (F)</td>
<td>1000v</td>
<td>6000A</td>
<td>DC230v ± 20%</td>
<td>Over 10,000M Ω</td>
<td>50Ω</td>
</tr>
</tbody>
</table>

**NOTES:**
- I.W.D.V. = Impulse Wave Discharge Voltage
- I.W.D.C. = Impulse Wave Discharge Capacity
- I.W.R.D.C. = Impulse Wave Retention Discharge Capacity

**SP1000:**
- Dimensions: 2.5"W x 1.6"H x 0.8"D
- Weight: 0.18lbs.

**SP1000PW:**
- Water Proof
- Dimensions: 3.1"W x 2.2"H x 1.0"D
- Weight: 0.3lbs.

**SP3000:**
- Dimensions: 3.1"W x 1.6"H x 0.8"D
- Weight: 0.25lbs.

**SP3000P:**
- Dimensions: 3.0"W x 1.6"H x 0.8"D
- Weight: 0.25lbs.

**SP3000W:**
- Water Proof
- Dimensions: 3.1"W x 2.2"H x 1.0"D
- Weight: 0.35lbs.

**Radiation patterns and other important info**

*Tip:* Use plate to easily wall mount the SP1000PW & SP3000W

**Radiation pattern explanation:**
- The X50 shows the vertical radiation pattern as if you were standing looking directly straight forward at the antenna.
- The A430S10 and A502HB radiation patterns shows the pattern looking straight down at the antenna from a birds-eye view.

For more radiation patterns, and further explanation, please visit [www.diamondantenna.net](http://www.diamondantenna.net)
More Important Info

Connectors:

- PL-259 (UHF Male) - Mates With - SO-239 (UHF Female)
- Type N (Male) - Mates With - Type N (Female)

Note:

Trying to mate the wrong connectors can result in broken center pins, and will void all warranty immediately.

For base applications you may order pre-made coaxial cable assemblies, or build your own custom cable assemblies. Available from RF Parts Company.

Here is a power handling/attenuation chart for a few popular cables used for base applications:

<table>
<thead>
<tr>
<th>Frequency</th>
<th>LMR600 Pwr./Atten.</th>
<th>LDF4-50A Pwr./Atten.</th>
<th>FSJ4-50B Pwr./Atten.</th>
<th>LMR400 Pwr./Atten.</th>
<th>Belden 9913F7 Pwr./Atten.</th>
<th>RG-213 Pwr./Atten.</th>
<th>LMR400 Ultraflex Pwr./Atten.</th>
<th>Bury Flex Pwr./Atten.</th>
<th>LMR240 Pwr./Atten.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 MHz</td>
<td>-</td>
<td>11.35 / 0.205</td>
<td>10.14 / 0.318</td>
<td>-</td>
<td>2.68 / 0.6</td>
<td>2.67 / 0.55</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>30 MHz</td>
<td>5.51 / 0.4</td>
<td>6.51 / 0.357</td>
<td>5.79 / 0.557</td>
<td>3.33 / 0.7</td>
<td>2.0 / 0.8</td>
<td>1.8 / 1.2</td>
<td>2.77 / 0.8</td>
<td>2.0 / 0.8</td>
<td>1.49 / 1.3</td>
</tr>
<tr>
<td>50 MHz</td>
<td>4.24 / 0.5</td>
<td>5.02 / 0.463</td>
<td>4.45 / 0.724</td>
<td>2.57 / 0.9</td>
<td>1.46 / 1.1</td>
<td>1.12 / 1.3</td>
<td>2.14 / 1.1</td>
<td>1.6 / 1.1</td>
<td>1.15 / 1.7</td>
</tr>
<tr>
<td>150 MHz</td>
<td>2.41 / 1.0</td>
<td>2.85 / 0.815</td>
<td>2.51 / 1.285</td>
<td>1.47 / 1.5</td>
<td>0.85 / 1.7</td>
<td>0.60 / 2.8</td>
<td>1.22 / 1.8</td>
<td>0.85 / 1.7</td>
<td>0.86 / 3.0</td>
</tr>
<tr>
<td>220 MHz</td>
<td>1.97 / 1.2</td>
<td>2.34 / 0.994</td>
<td>2.05 / 1.574</td>
<td>1.20 / 1.9</td>
<td>0.77 / 1.9</td>
<td>0.45 / 3.5</td>
<td>1.00 / 2.2</td>
<td>0.77 / 2.1</td>
<td>0.54 / 3.7</td>
</tr>
<tr>
<td>450 MHz</td>
<td>1.35 / 1.7</td>
<td>1.61 / 1.447</td>
<td>1.39 / 2.314</td>
<td>0.83 / 2.7</td>
<td>0.5 / 3.0</td>
<td>0.30 / 5.2</td>
<td>0.69 / 3.3</td>
<td>0.5 / 3.0</td>
<td>0.38 / 5.3</td>
</tr>
<tr>
<td>900 MHz</td>
<td>0.93 / 2.5</td>
<td>1.11 / 2.097</td>
<td>0.95 / 3.596</td>
<td>0.58 / 3.9</td>
<td>0.36 / 4.7</td>
<td>0.20 / 7.6</td>
<td>0.48 / 4.7</td>
<td>0.36 / 4.4</td>
<td>0.26 / 7.6</td>
</tr>
<tr>
<td>1,500 MHz</td>
<td>0.70 / 3.3</td>
<td>0.84 / 2.771</td>
<td>0.71 / 4.543</td>
<td>0.44 / 5.1</td>
<td>-</td>
<td>-</td>
<td>0.36 / 6.2</td>
<td>-</td>
<td>0.20 / 9.9</td>
</tr>
<tr>
<td>2,500 MHz</td>
<td>0.52 / 4.4</td>
<td>0.63 / 3.685</td>
<td>0.53 / 6.129</td>
<td>0.33 / 6.8</td>
<td>-</td>
<td>-</td>
<td>0.28 / 8.1</td>
<td>-</td>
<td>0.18 / 12.9</td>
</tr>
<tr>
<td>Velocity (%)</td>
<td>87</td>
<td>88</td>
<td>81</td>
<td>85</td>
<td>85</td>
<td>85</td>
<td>85</td>
<td>85</td>
<td>82</td>
</tr>
</tbody>
</table>

Power Handling (kW, +40C, Sea Level, Continuous Duty Cycle.)

Low Duty Cycle Transmissions - for less than 50% duty cycle. Power rating may be doubled.

Attenuation is dB/100ft

More Photos

K400S mount with an NR790 (discontinued)
Photo Courtesy: Joe Mitterando, KC2UUZ

X510HDN Base Antenna
Photo Courtesy: Wade Blake, N7LGK

X200A(left), D130J(right). Base Antennas
Photo Courtesy: Mike Muranetz, VE6MM

SG7900 Series antenna
Photo Courtesy: Mike Ayala, K4EQE

CP6AR Multiband Vertical Antenna
Photo Courtesy: Ian Wilson, ZL1OGX

K412 mount with an AZ507rsp
Photo Courtesy: Joel Alderman, G0URK
Diamond Antennas are available through Authorized Diamond Antenna Dealers. To find the Dealer nearest you, Call 770-614-7443 or visit www.diamondantenna.net/dealers.html