The Standard By Which All Others Are Judged
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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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.

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

The X700HNA Base Station Repeater Antenna

Strong waterproof joint couplings

Coax connection at base end

Heavy duty base/radial assembly

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>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>UHF</td>
<td>18-1/2λ</td>
<td></td>
</tr>
<tr>
<td>F1230A</td>
<td>1.2GHz</td>
<td>13.8</td>
<td>100</td>
<td>112</td>
<td>12’</td>
<td>N</td>
<td>14-5/8λ</td>
<td></td>
</tr>
<tr>
<td>F2405L</td>
<td>2400 MHz</td>
<td>5</td>
<td>10</td>
<td>-</td>
<td>23”</td>
<td>N</td>
<td>1/2λ 6 Element</td>
<td></td>
</tr>
<tr>
<td>F2407L</td>
<td>2400 MHz</td>
<td>7</td>
<td>10</td>
<td>-</td>
<td>28”</td>
<td>N</td>
<td>1/2λ 8 Element</td>
<td></td>
</tr>
<tr>
<td>F2409L</td>
<td>2400 MHz</td>
<td>9</td>
<td>10</td>
<td>-</td>
<td>35”</td>
<td>N</td>
<td>1/2λ 12 Element</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>
<tr>
<td>G200</td>
<td>2400 MHz</td>
<td>11</td>
<td>10</td>
<td>-</td>
<td>58”</td>
<td>N</td>
<td>1/2λ 19 Element</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**

A. Heavy-duty Aluminum.  
B. High Power  
C. Tunable 144-174 with cutting chart.

**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>2m: 1-1/2λ; 70cm: 2-5/8λ</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>2m: 3-1/4λ; 70cm: 3-5/8λ</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>2m: 3-1/4λ; 70cm: 3-5/8λ repeater version B</td>
<td></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>2m: 2-5/8λ; 70cm: 4-5/8λ</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>2m: 2-5/8λ; 70cm: 5-5/8λ</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>2m: 2-5/8λ; 70cm: 5-5/8λ</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>2m: 3-5/8λ; 70cm: 8-5/8λ</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>2m: 3-5/8λ; 70cm: 8-5/8λ</td>
<td>A, B</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>Optimized 143.5-146.5/428-442 MHz</td>
<td></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>2m: 4-5/8λ; 70cm: 11-5/8λ</td>
<td>B</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>Element Phasing</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>X3200A</td>
<td>2m/1-1/4m/70cm</td>
<td>6.0/7.8/8.0</td>
<td>100/200</td>
<td>112</td>
<td>10.5</td>
<td>UHF</td>
<td>2m: 3/4λ; 1-1/4m: 3-5/8λ, 70cm: 3-5/8λ</td>
<td>C</td>
</tr>
<tr>
<td>X6000A</td>
<td>2m/70cm23cm</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>
<td></td>
</tr>
<tr>
<td>V2000A</td>
<td>6m/2m/70cm</td>
<td>2.1/2.2/2.4</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>
<td>B, D</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>
<td>A, E</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>
<td>A, E</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>
<td>A, E</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)
### Multiband, and HF Antennas

<table>
<thead>
<tr>
<th>Model</th>
<th>Bands</th>
<th>Gain/dB</th>
<th>Max Pwr. Rating</th>
<th>Wind Rating</th>
<th>Height (feet)</th>
<th>Conn.</th>
<th>Element Phase</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>CP-5H</td>
<td>40m/20m/15m/10m/6m</td>
<td>-</td>
<td>200/400/400</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</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>
</tbody>
</table>

### 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 Multiband Trap Vertical Antennas

Diamond’s CP Series vertical antennas with trap radials are lightweight 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:** Six Band
  - 75m, 40m, 20m, 15m, 10m, 6m

- **CP-5H:** Five Band
  - 40m, 20m, 15m, 10m, 6m
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. 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>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&quot;, BW: 1.5MHz</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&quot;, 10m: 5/8&quot;, 6m 50-53MHz</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:**

**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

Frequency: 6m, 10m
Power: 500 watts SSB, 200 watts FM
Gain: 5.5 dB (6m)/3.4 dB (10m)
Impedance: 50 ohms
VSWR: 1.8:1 (Nominal)
Element Phasing: 6m: 2-5/8 wave
10m: 5/8 wave
Overall Length: 22’ (6.7m)
Connector: SO239 female UHF
Max Wind Rating: 80 mph (no ice)
Mast Diameter Acceptance: 1.2” - 2.4”

**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.
<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>UHF</td>
<td>-</td>
<td>Phasing harness for stacking</td>
<td>A, B</td>
</tr>
<tr>
<td>KB144</td>
<td>2m</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Side mount boom</td>
<td>-</td>
<td>A. 2m (144) / 70cm (430)</td>
<td>B. Input: SO-239/UHF (F) Output x2: PL-259/UHF (M)</td>
</tr>
<tr>
<td>KB430</td>
<td>430</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Side mount boom</td>
<td>-</td>
<td>A144S5 is shown mounted on side mount bracket KB144. Three minute assembly. Ideal for portable or emergency use. A144S10 (shown above)</td>
<td></td>
</tr>
<tr>
<td>SB144</td>
<td>2m</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Side mount boom</td>
<td>-</td>
<td>A144S10 (shown above)</td>
<td></td>
</tr>
<tr>
<td>SB430</td>
<td>430</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Dual antenna stacking boom</td>
<td>-</td>
<td>A430S15 (right) and A430S15 (above) are shown mounted with side mount bracket KB430.</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**

A. 2m (144) / 70cm (430) B. Input: SO-239/UHF (F) Output x2: PL-259/UHF (M)
Mobile Antennas

Diamond Antennas’ mobile antenna line is the best there is. Whether you are sitting in traffic talking with your buddies on 2m repeaters, or you scour the HF frequencies. Diamond Antenna has an antenna that fits your needs.

From high gain monobands, 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, and more! The mount and antenna possibilities are endless.

SD330 Specifications:
- 3.5-30MHz or 7-50MHz
- 200 Watts (SSB)
- 2.5 Pounds
- UHF or 3/8x24 connector
- 1/2λ center loading
- Less than 2.0 VSWR
- 73" @ 3 MHz, 66" @ 28 MHz
- See Page 17 for more information

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 (Ω)</th>
<th>Length (inches)</th>
<th>Conn.</th>
<th>Element</th>
<th>Phasing</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF6CL</td>
<td>6m</td>
<td>2.15dB</td>
<td>250 SSB-80 FM</td>
<td>50Ω</td>
<td>86.6</td>
<td>UHF</td>
<td>1/2λ</td>
<td>Radialess</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</td>
<td>Radialess</td>
<td>A, B, 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</td>
<td>Radialess (21 - 21.45MHz)</td>
<td>A, B, 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>Radialess (18.068 - 18.168MHz)</td>
<td>A, B, 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>Radialess</td>
<td>A, B, 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>Radialess</td>
<td>A, B, 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>Radialess</td>
<td>A, B, E</td>
</tr>
<tr>
<td>NR22L</td>
<td>2m</td>
<td>6</td>
<td>100</td>
<td>50Ω</td>
<td>96.8</td>
<td>UHF</td>
<td>2-5/8λ</td>
<td>Radialess</td>
<td>B</td>
</tr>
<tr>
<td>HF6FX</td>
<td>6m</td>
<td>2.15</td>
<td>250</td>
<td>50Ω</td>
<td>44</td>
<td>UHF</td>
<td>1/4λ</td>
<td>Base loading</td>
<td>B</td>
</tr>
<tr>
<td>M285S</td>
<td>144-172</td>
<td>3.4</td>
<td>200</td>
<td>50Ω</td>
<td>52.4</td>
<td>UHF</td>
<td>5/8λ</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>M285SNMO</td>
<td>144-172</td>
<td>3.4</td>
<td>200</td>
<td>50Ω</td>
<td>52.4</td>
<td>NMO</td>
<td>5/8λ</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>M685S</td>
<td>6m</td>
<td>2.15</td>
<td>200</td>
<td>50Ω</td>
<td>52.4</td>
<td>UHF</td>
<td>1/4λ</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>M685SNMO</td>
<td>6m</td>
<td>2.15</td>
<td>200</td>
<td>50Ω</td>
<td>52.4</td>
<td>NMO</td>
<td>1/4λ</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>MG200</td>
<td>2400 MHz</td>
<td>7</td>
<td>10</td>
<td>50Ω</td>
<td>23.6</td>
<td>N</td>
<td>3-1/2λ</td>
<td>Coaxial dipole</td>
<td>D</td>
</tr>
<tr>
<td>NR124N</td>
<td>23cm</td>
<td>8.4</td>
<td>100</td>
<td>50Ω</td>
<td>25</td>
<td>N</td>
<td>4-5/8λ</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>NR124NMO</td>
<td>23cm</td>
<td>8.4</td>
<td>100</td>
<td>50Ω</td>
<td>25</td>
<td>NMO</td>
<td>4-5/8λ</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>NR140BNMO</td>
<td>222-225 MHz</td>
<td>3.8</td>
<td>100</td>
<td>50Ω</td>
<td>36.2</td>
<td>NMO</td>
<td>1/2λ + 1/4λ</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>NR920</td>
<td>902-928 Mhz</td>
<td>7</td>
<td>50</td>
<td>50Ω</td>
<td>28.9</td>
<td>N</td>
<td>3-5/8λ</td>
<td>Black</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**

A. HF Center Loading Series  
B. Not Recommended for Magnet Mounts  
C. Tunable w/ cutting chart  
D. FRP Outershell  
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>CR270A</td>
<td>2m/70cm</td>
<td>2.15</td>
<td>50</td>
<td>17.3</td>
<td>UHF</td>
<td>2m: 2-1/2λ; 70cm: 2-5/8λ</td>
<td>B</td>
</tr>
<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>Black</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</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>NR770HBNM</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; 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 14-15e*
## 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>2m: 1/4λ; 70cm: 1/2λ.</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>2m: 1/4λ; 70cm: 1/2λ.</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>2m: 1/2λ; 70cm: 2-5/8λ.</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>2m: 1/4λ; 70cm: 3/8λ.</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>2m: 1/2λ; 70cm: 2-5/8λ.</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>2m: 1/2λ; 70cm: 2-5/8λ.</td>
<td>A</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>2m: 2-1/4λ + 1-3/8λ; 70cm: 3-5/8λ</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>2m: 2-1/4λ + 1-3/8λ; 70cm: 3-5/8λ</td>
<td>A</td>
</tr>
</tbody>
</table>

**NOTES:**

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

---

Super Gainer Series
Fold Over

---

SG7900A
SG7900ANMO
SG7500A
SG7500NMO
SG7000A
AZ507RSP
AZ504SP
AZ504FXH
### 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 MR73A</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 MR75A</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>SMA (F)</td>
<td>2m: 1/2λ; 70cm: 5/8λ, Magnet</td>
<td>Black</td>
</tr>
<tr>
<td>MR77SMA</td>
<td>Same specs as MR77A</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>MR77SMAJ</td>
<td></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>NR770HRS</td>
<td>HRKS adhesive backed UHF (SO-239) mount with cable and NR770HB antenna. Package combo.</td>
<td></td>
<td></td>
<td></td>
<td>N</td>
<td>2m: 1/2λ; 70cm: 2-5/8λ; 23cm: 5-5/8λ.</td>
<td></td>
</tr>
<tr>
<td>NR2000NA</td>
<td>2m/70cm/23cm</td>
<td>3.15/3.4/3.97</td>
<td>100</td>
<td>39</td>
<td>N</td>
<td>2m: 1/2λ; 70cm: 2-5/8λ; 23cm: 5-5/8λ.</td>
<td></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>CR320BNMO</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>CR627BNMO</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 Mag Mount antennas also available in SMA Female to connect to your handheld
**The D220 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.

---

**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) 5.5(70cm)</td>
<td>60</td>
<td>50</td>
<td>UHF</td>
<td>10m/6m: 1/4λ; 2m: 1/2λ; 70cm: 2-5/8λ.</td>
<td>A, B, C</td>
</tr>
<tr>
<td>D220</td>
<td>100-1600 MHz</td>
<td>2.15(144/904/1200MHz) 5.5(440MHz)</td>
<td>50</td>
<td>35.5</td>
<td>UHF</td>
<td>Wideband Discone 144: 1/2λ, 440: 2-5/8λ.</td>
<td>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>1/4λ Center Loading</td>
<td></td>
</tr>
<tr>
<td>HV7A</td>
<td>10m/6m/2m/70cm</td>
<td>2.15(10m/6m/2m) 5.5(70cm)</td>
<td>HF - 120</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**

- HVC7: 40m Loading Coil
- HVC14: 20m Loading Coil
- HVC18: 17m Loading Coil
- HVC21: 15m Loading Coil

**Notes:**
- A. Not recommended for Magnet Mount.
- B. Grounding required
- C. 6m adjustable
- D. Heavy Duty Foldover

**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 (dB):** 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.

---

**D220 Mobile Scanner Antenna**

The D220 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!
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 M62M 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.

<table>
<thead>
<tr>
<th>Bands Supplied</th>
<th>10m/6m/2m/70cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optional Loading Coils</td>
<td>40m/20m/17m/15m</td>
</tr>
<tr>
<td>Power, P.E.P.: HF</td>
<td>120w/VHF 200w</td>
</tr>
<tr>
<td>Mount Connection:</td>
<td>UHF (SD-239)</td>
</tr>
<tr>
<td>Length:</td>
<td>54”</td>
</tr>
<tr>
<td>SWR:</td>
<td>1.5:1 nominal</td>
</tr>
<tr>
<td>Suggested Mount:</td>
<td>K400 &amp; K600 Series</td>
</tr>
</tbody>
</table>

*For best performance antenna needs to be securely grounded.
*Each Band may be independently tuned.

Popular HF/VHF Mobile Transceivers:
I.e. ICOM IC706 Series & Yaesu FT100
(Or combine your existing VHF/UHF & HF Equipment)

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.

<table>
<thead>
<tr>
<th>Band:</th>
<th>3-30 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-50 MHz with OPE750</td>
<td>Height: 66” @ 28 MHz</td>
</tr>
<tr>
<td>Watts:</td>
<td>200</td>
</tr>
<tr>
<td>Connector:</td>
<td>SD330: UHF (PL-259)</td>
</tr>
<tr>
<td></td>
<td>SD330-3/8: 3/8-24</td>
</tr>
<tr>
<td>Element:</td>
<td>1/4λ Center Loading</td>
</tr>
<tr>
<td>VSWR:</td>
<td>Less than 2.0</td>
</tr>
</tbody>
</table>

Height w/ OPE750:
49” @ 50 MHz
56” @ 7 MHz

*Tuner is not included

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Bands</th>
<th>Gain (relative)</th>
<th>Power Rating</th>
<th>Length (inches)</th>
<th>Conn.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RH205</td>
<td>2m</td>
<td>+9 dB</td>
<td>10</td>
<td>9.1 / 52.8</td>
<td>BNC</td>
<td>1/4λ Retracted / 5/8λ extended. 10 stage telescoping.</td>
</tr>
<tr>
<td>RH3</td>
<td>2m/70cm</td>
<td>-2 dB</td>
<td>10</td>
<td>1.75</td>
<td>BNC</td>
<td>&quot;Black Bullet&quot;, + 120-900 receive, compact design.</td>
</tr>
<tr>
<td>RH519</td>
<td>2m/70cm</td>
<td>+3 dB</td>
<td>10</td>
<td>8</td>
<td>BNC</td>
<td>Flexible slim design</td>
</tr>
<tr>
<td>RH707</td>
<td>2m/70cm</td>
<td>+3 dB</td>
<td>10</td>
<td>8.25</td>
<td>BNC</td>
<td>Tiltable whip</td>
</tr>
<tr>
<td>RH789</td>
<td>VHF/UHF</td>
<td>+6/+9 dB</td>
<td>10</td>
<td>7.9 / 31.7</td>
<td>BNC</td>
<td>See Below</td>
</tr>
<tr>
<td>RH77CA</td>
<td>2m/70cm</td>
<td>+6 dB</td>
<td>10</td>
<td>15</td>
<td>BNC</td>
<td>High Gain + Receive to 900 MHz Extremely Flexible.</td>
</tr>
<tr>
<td>RHF10</td>
<td>2m/70cm</td>
<td>+6 dB</td>
<td>10</td>
<td>16</td>
<td>BNC</td>
<td>High Gain + Receive to 900 MHz Extremely Flexible.</td>
</tr>
<tr>
<td>RH951S</td>
<td>2m/70cm/23cm</td>
<td>+3 dB</td>
<td>10</td>
<td>14</td>
<td>BNC</td>
<td>High Gain Tri-band. Flexible slim design.</td>
</tr>
<tr>
<td>SRH229</td>
<td>222-900 MHz</td>
<td>+4 dB</td>
<td>10</td>
<td>13.75</td>
<td>SMA (M)</td>
<td>High Gain, Flexible Whip. For ALINCO DJ-G29T</td>
</tr>
<tr>
<td>SRH519</td>
<td>2m/70cm</td>
<td>+3 dB</td>
<td>10</td>
<td>7.75</td>
<td>SMA (M)</td>
<td>Flexible slim design</td>
</tr>
<tr>
<td>SRH789</td>
<td>VHF/UHF</td>
<td>+6/+9 dB</td>
<td>10</td>
<td>7.9 / 31.7</td>
<td>SMA (M)</td>
<td>See Below</td>
</tr>
<tr>
<td>SRH77CA</td>
<td>2m/70cm</td>
<td>+6 dB</td>
<td>10</td>
<td>15</td>
<td>SMA (M)</td>
<td>High Gain + Receive to 900 MHz</td>
</tr>
<tr>
<td>SRHF10</td>
<td>2m/70cm</td>
<td>-6</td>
<td>2.75</td>
<td>SMA (F)</td>
<td>Air band 150/300/450/800/900 MHz (rec.)</td>
<td></td>
</tr>
<tr>
<td>SRH320A</td>
<td>2m/1-1/4m/70cm</td>
<td>+3 dB</td>
<td>10</td>
<td>13.75</td>
<td>SMA (M)</td>
<td>Tri-band, flexible slim design with SMA</td>
</tr>
<tr>
<td>SRH805</td>
<td>2m/70cm/23cm</td>
<td>-2 dB</td>
<td>10</td>
<td>1.75</td>
<td>SMA (M)</td>
<td>Tri-band compact design</td>
</tr>
<tr>
<td>SRH815</td>
<td>2m/70cm/23cm</td>
<td>+3 dB</td>
<td>10</td>
<td>6</td>
<td>SMA (M)</td>
<td>Tri-band, flexible slim design with SMA</td>
</tr>
<tr>
<td>SRH940</td>
<td>6m/2m/70cm</td>
<td>+3 dB</td>
<td>10</td>
<td>17.75</td>
<td>SMA (M)</td>
<td>Tri-band, High Gain</td>
</tr>
<tr>
<td>SRH999</td>
<td>6m/2m/70cm/23cm</td>
<td>+4 dB</td>
<td>10</td>
<td>19.5</td>
<td>SMA (M)</td>
<td>Quadband High Gain</td>
</tr>
<tr>
<td>SRJ10</td>
<td>2m/70cm</td>
<td>-6</td>
<td>2.75</td>
<td>SMA (F)</td>
<td>Air band 150/300/450/800/900 MHz (rec.)</td>
<td></td>
</tr>
<tr>
<td>SRJ77CA</td>
<td>2m/70cm</td>
<td>+6 dB</td>
<td>10</td>
<td>15</td>
<td>SMA (F)</td>
<td>High Gain + Receive to 900 MHz</td>
</tr>
</tbody>
</table>

### Notes:
Rated against typical stock HT antennas (rated at 0dB) - WOUXON: The SRJ77CA & SRJF10 is specifically made for Wouxon and other SMA male radios.

### 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.
Cable Assemblies & Adapters

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!

Cable Assemblies:

- **C101**: Ideal cable assembly for trunk mount/remote head installations.
  - 6.5' RG316 - SO-239 UHF base for antenna connection - mini-UHF with PL-259 Adapter

- **C213SMA**: Fits all Diamond K-Series mounts (except K600M).
  - 13.5' RG316 - SO-239 UHF base for antenna connection - SMA Male with PL-259 Adapter

- **C101NMO**: 6.5' RG316 - NMO base for antenna connection - mini-UHF with PL-259 Adapter

- **C213SNO**: Fits all Diamond K-Series mounts (except K600, K540 and K550).
  - 13.5' RG316 - NMO base for antenna connection - SMA Male with PL-259 Adapter

- **C101-3/8C**: Replacement cable assembly for K400-3/8C mobile antenna mount.
  - 6.5' RG316

- **C101-3/8C Kit**: Upgrades any K400 mount to a K400-3/8C.
  - Includes 3/8x24 hardware, C101-3/8C cable, and PL-259 adapter

- **C110**: 10’ RG-BX/Mini-8 coax - mini-UHF (M) to mini-UHF (F)

- **C211**: Combination of C101, and C110 cable assemblies
  - PL-259 Adapter included

- **C110SMA**: 10’ RG316 extension cable for any cable ending in mini-UHF (M) to SMA (M)

- **C110BNC**: 10’ RG-316 extension cable for any cable ending in mini-UHF (F) - mini-UHF (M) to BNC (M)

- **C104SMA**: 4’ extension cable for existing cables with PL-259 RG58/U cable, UHF Female (SO-239) to SMA Male

- **C105SMA**: 5’ extension cable for C101
  - RG58/U cable with mini-UHF Male to right angle SMA male

Adapters:

- **BNCJ-SMAP**: For SMA equipped handhelds to use BNC antennas. Black, low profile.

- **BNCP-SMAJ**: For BNC equipped handhelds to use SMA antennas. Black, low profile.

- **DIA3824**: SO-239 to 3/8x24 adapter
  - Adapts a SO-239 connector to a male or female 3/8x24 antenna.
  - Comes with washer nut, and threadlock.

- **RSA3474**: SMA Female to PL-259. Included in Diamond’s S series mounts.

- **RFU645**: Mini-UHF Male to PL-259. Included in Diamond’s C series mounts.
### 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 K400SNMO 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.

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.

Photo Courtesy: Kelley Miller, K5KTX

Photo Courtesy: Robert Pullman, KE5JJC
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>SO-239 UHF</td>
<td>RG-316</td>
<td>6.5</td>
<td>Mini-UHF (F)</td>
</tr>
<tr>
<td>K400C</td>
<td>SO-239 UHF</td>
<td>RG-316</td>
<td>13.5</td>
<td>SMA (M)</td>
</tr>
<tr>
<td>K400SNMO</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>

**NOTES:**

All RG-316 is Mil-spec Teflon Coax.
K400 series (excluding K400 mount only) come with a PL-259 adapter for your radio.


Power: 1kW; 1-30MHz
*Use K400-3/8C2 for front radio installation.
For K400-3/8C use C110 for front radio installation

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
- 16.5’ two-step cable assembly
- RG-188 & low loss 7mm 50 cable
- PL-259 end connection

Don’t have a mobile radio? Use the SMA from the S series mounts to plug your mobile antenna’s coax directly into your SMA handheld!
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 with 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
Magnet Mounts

SPM Series

Heavy-duty Magnet Mounts

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>Part</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>
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<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>
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<td>HPF</td>
<td>900-1300</td>
<td>50</td>
<td>.45</td>
<td>45</td>
<td>N-Male</td>
<td>N-Male / 12&quot; 5D cable</td>
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<td>MX214</td>
<td>LPF</td>
<td>140-250</td>
<td>150</td>
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<td>40</td>
<td>SO-239</td>
<td>PL-259 / No cable</td>
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<tr>
<td></td>
<td>HPF</td>
<td>200-225</td>
<td>100</td>
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<td>40</td>
<td>SO-239</td>
<td>PL-259 / No cable</td>
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<tr>
<td>MX62M</td>
<td>LPF</td>
<td>1.6-56</td>
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<td>.2</td>
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<td>SO-239</td>
<td>PL 259 / 12&quot; 5D cable</td>
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<td>HPF</td>
<td>76-470*</td>
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<td>.3</td>
<td>50</td>
<td>SO-239</td>
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<td>MX72D</td>
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<td>1.6-30</td>
<td>400</td>
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<td>60</td>
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<td>HPF</td>
<td>400-460</td>
<td>100</td>
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<td>60</td>
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<td>MX72A</td>
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<td>Same specifications as MX72N</td>
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<td>MX72H</td>
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<td>Same specifications as MX72N</td>
<td>N-Male / 12&quot; 5D cable</td>
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<td>MX72N</td>
<td>LPF</td>
<td>1.6-30</td>
<td>400</td>
<td>.1</td>
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<td>SO-239</td>
<td>PL 259 / 12&quot; 5D cable</td>
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<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>
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<td></td>
<td></td>
<td>400</td>
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<td>60</td>
<td>PL 259 / 12&quot; 5D cable</td>
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<td>MX324</td>
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<td>1.5-150</td>
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<td>.3</td>
<td>40-50</td>
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<td>PL 259 / 12&quot; 5D cable</td>
</tr>
<tr>
<td></td>
<td>BPF</td>
<td>220-225</td>
<td>300</td>
<td>.4</td>
<td>40-50</td>
<td>SO-239</td>
<td>PL 259 / 12&quot; 5D cable</td>
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<tr>
<td></td>
<td>HPF</td>
<td>400-550</td>
<td>250</td>
<td>.4</td>
<td>40-50</td>
<td>SO-239</td>
<td>PL 259 / 12&quot; 5D cable</td>
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<tr>
<td>MX610</td>
<td>LPF</td>
<td>1.3-30</td>
<td>200</td>
<td>.2</td>
<td>45</td>
<td>SO-239</td>
<td>PL 259 / 12&quot; 5D cable</td>
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<tr>
<td></td>
<td>HPF</td>
<td>49-470</td>
<td>200</td>
<td>.25</td>
<td>45</td>
<td>SO-239</td>
<td>PL 259 / 12&quot; 5D cable</td>
</tr>
<tr>
<td>MX2000</td>
<td>LPF</td>
<td>1.6-60</td>
<td>400</td>
<td>.15</td>
<td>60</td>
<td>SO-239</td>
<td>PL 259 / 12&quot; 5D cable</td>
</tr>
<tr>
<td></td>
<td>BPF</td>
<td>110-170</td>
<td>400</td>
<td>.2</td>
<td>60</td>
<td>SO-239</td>
<td>PL 259 / 12&quot; 5D cable</td>
</tr>
<tr>
<td></td>
<td>HPF</td>
<td>300-950</td>
<td>250</td>
<td>.25</td>
<td>60</td>
<td>SO-239</td>
<td>PL 259 / 12&quot; 5D cable</td>
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<tr>
<td>MX2000N</td>
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<td>1.6-60</td>
<td>400</td>
<td>.15</td>
<td>60</td>
<td>SO-239</td>
<td>PL 259 / 12&quot; 5D cable</td>
</tr>
<tr>
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<td>BPF</td>
<td>110-170</td>
<td>400</td>
<td>.2</td>
<td>60</td>
<td>SO-239</td>
<td>PL 259 / 12&quot; 5D cable</td>
</tr>
<tr>
<td></td>
<td>HPF</td>
<td>300-950</td>
<td>250</td>
<td>.25</td>
<td>60</td>
<td>SO-239</td>
<td>PL 259 / 12&quot; 5D cable</td>
</tr>
<tr>
<td>MX3000</td>
<td>LPF</td>
<td>1.6-160</td>
<td>400</td>
<td>.15</td>
<td>55</td>
<td>N-Jack (F)</td>
<td>PL 259 / 12&quot; 5D cable</td>
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<tr>
<td></td>
<td>BPF</td>
<td>350-500</td>
<td>200</td>
<td>.25</td>
<td>55</td>
<td>N-Jack (F)</td>
<td>PL 259 / 12&quot; 5D cable</td>
</tr>
<tr>
<td></td>
<td>HPF</td>
<td>850-1300</td>
<td>100</td>
<td>.3</td>
<td>55</td>
<td>N-Jack (F)</td>
<td>PL 259 / 12&quot; 5D cable</td>
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<tr>
<td>MX3000N</td>
<td>LPF</td>
<td>1.6-160</td>
<td>400</td>
<td>.2</td>
<td>55</td>
<td>N-Jack (F)</td>
<td>PL 259 / 12&quot; 5D cable</td>
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<tr>
<td></td>
<td>BPF</td>
<td>350-500</td>
<td>200</td>
<td>.3</td>
<td>55</td>
<td>N-Jack (F)</td>
<td>PL 259 / 12&quot; 5D cable</td>
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<tr>
<td></td>
<td>HPF</td>
<td>850-1300</td>
<td>100</td>
<td>.4</td>
<td>55</td>
<td>N-Jack (F)</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**

UHF Connector for Duplexers and Triplexers

Type-N Male 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>30/300</td>
<td>5W</td>
<td>S0-239</td>
<td>220 MHz uses a correction factor.</td>
</tr>
<tr>
<td>SX40C</td>
<td>144-470</td>
<td>30/300</td>
<td>5W</td>
<td>S0-239</td>
<td>220 MHz uses a correction factor. 3KW+HF only.</td>
</tr>
<tr>
<td>SX240C</td>
<td>1.8-54/140-470</td>
<td>30/300/3KW</td>
<td>10W</td>
<td>S0-239</td>
<td></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

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)

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

PC3:
3 meter (9.8') power cable with T connector (for VHF/UHF mobile rigs), 20amp fuse, 14 guage wire.

Both 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

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

Neither GZV4000 nor GZV6000 support 110-120 Volt 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

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

**CX210A/CX310A Connectors**

**CX310A**

**CX210A and CX210N**

**CX210N Connectors**
Lightning Surge Protectors

<table>
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<tr>
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</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 10,000Ω</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 10,000Ω</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 10,000Ω</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 10,000Ω</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 10,000Ω</td>
</tr>
</tbody>
</table>

NOTES:

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

Radiation pattern explanation:
The X50 shows the vertical radiation pattern as if you were standing looking directly straight 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
More important info

Connectors:

- Mates With -

PL-259 (UHF Male)
SO-239 (UHF Female)
Type N (Male)
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</th>
<th>LMR400</th>
<th>Belden 9913F7</th>
<th>LMR400 Ultraflex</th>
<th>Bury Flex</th>
<th>LMR240</th>
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<tbody>
<tr>
<td></td>
<td>10 MHz</td>
<td>30 MHz</td>
<td>150 MHz</td>
<td>220 MHz</td>
<td>450 MHz</td>
<td>900 MHz</td>
</tr>
<tr>
<td>10 MHz</td>
<td>0.11 / 0.205</td>
<td>0.11 / 0.319</td>
<td>0.11 / 0.205</td>
<td>0.26 / 0.55</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>30 MHz</td>
<td>0.51 / 0.357</td>
<td>0.51 / 0.0357</td>
<td>0.51 / 0.0357</td>
<td>2.0 / 0.8</td>
<td>1.27 / 0.8</td>
<td>2.0 / 0.8</td>
</tr>
<tr>
<td>50 MHz</td>
<td>4.24 / 0.5</td>
<td>4.24 / 0.463</td>
<td>4.24 / 0.724</td>
<td>1.46 / 0.96</td>
<td>1.12 / 1.3</td>
<td>1.46 / 1.1</td>
</tr>
<tr>
<td>150 MHz</td>
<td>2.41 / 1.0</td>
<td>2.41 / 0.815</td>
<td>2.41 / 0.815</td>
<td>0.86 / 0.76</td>
<td>0.66 / 0.8</td>
<td>0.85 / 1.7</td>
</tr>
<tr>
<td>220 MHz</td>
<td>1.97 / 1.2</td>
<td>1.97 / 0.984</td>
<td>1.97 / 0.984</td>
<td>0.77 / 1.9</td>
<td>0.49 / 3.5</td>
<td>0.77 / 2.1</td>
</tr>
<tr>
<td>450 MHz</td>
<td>1.35 / 1.7</td>
<td>1.35 / 1.447</td>
<td>1.35 / 3.214</td>
<td>0.53 / 1.8</td>
<td>0.39 / 1.2</td>
<td>0.66 / 3.3</td>
</tr>
<tr>
<td>900 MHz</td>
<td>0.93 / 2.5</td>
<td>1.11 / 2.097</td>
<td>0.93 / 2.5</td>
<td>0.36 / 4.7</td>
<td>0.20 / 7.6</td>
<td>0.48 / 4.7</td>
</tr>
<tr>
<td>1,500 MHz</td>
<td>0.70 / 3.3</td>
<td>0.84 / 2.771</td>
<td>0.70 / 2.771</td>
<td>0.44 / 5.1</td>
<td>0.36 / 6.2</td>
<td>0.48 / 4.7</td>
</tr>
<tr>
<td>2,500 MHz</td>
<td>0.52 / 4.4</td>
<td>0.63 / 3.685</td>
<td>0.52 / 3.685</td>
<td>0.33 / 6.8</td>
<td>-</td>
<td>0.28 / 8.1</td>
</tr>
<tr>
<td>Velocity (%)</td>
<td>87</td>
<td>88</td>
<td>81</td>
<td>85</td>
<td>85</td>
<td>66</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, ZL10GX

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