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 pre-tuned 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
fax. - 770-614-7445
email: info@diamondantenna.net
www.diamondantenna.net facebook.com/diamondantenna

Diamond Antennas are available through authorized dealers.

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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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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.

**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!

---

**Base Station Antennas**

**Monoband Antennas**

**Pg. 5**

**Dualband Antennas**

**Pg. 6**

**Triband, Discone Antennas**

**Pg. 7**

**Multiband, HF, and 6m Antennas**

**Pg. 8-9**

**Wire Dipole Antennas**

**Pg. 9**

**Yagi Beam Antennas**

**Pg. 10**

---

**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>Conc.</th>
<th>Element Phasing</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>CP62</td>
<td>690 (500 MHz)</td>
<td>6.5</td>
<td>100</td>
<td>80</td>
<td>22</td>
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<td>2-5/8, 8W, 1.5kHz</td>
<td>A, D</td>
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<td>CP22E</td>
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<td>6.5</td>
<td>200</td>
<td>70</td>
<td>8.9&quot;</td>
<td>UHF</td>
<td>2-5/8</td>
<td>A</td>
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<tr>
<td>F20A</td>
<td>2m</td>
<td>6.7</td>
<td>200</td>
<td>112</td>
<td>10.5&quot;</td>
<td>UHF</td>
<td>2-7/8</td>
<td>C</td>
</tr>
<tr>
<td>F22H</td>
<td>144-174 MHz</td>
<td>6.7</td>
<td>350</td>
<td>112</td>
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<td>UHF</td>
<td>2-7/8</td>
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<td>F28H</td>
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<td>350</td>
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<td>3-5/8</td>
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<td>F718A</td>
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<td>18-1/2, Coaxial Element Antenna</td>
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<td>F1230A</td>
<td>1.2GHz</td>
<td>13.8</td>
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<td>135</td>
<td>5.9&quot;</td>
<td>N</td>
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<tr>
<td>F142A</td>
<td>222-235 MHz</td>
<td>5.5</td>
<td>150</td>
<td>135</td>
<td>6.2&quot;</td>
<td>UHF</td>
<td>2-5/8</td>
<td>A</td>
</tr>
</tbody>
</table>

**Notes:**
- A. Heavy-duty Aluminum
- B. High Power
- C. Tunable 144-174 with cutting chart
- D. Adjustable 50-540 MHz

---

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 ventable 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>
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<tbody>
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<td>135</td>
<td>4.6</td>
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<td>4.5/7.2</td>
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<td>135</td>
<td>5.6</td>
<td>UHF</td>
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<td>135</td>
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<td>UHF</td>
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<td>10</td>
<td>UHF</td>
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### Triband, Discone Base Antennas

<table>
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<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>
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<tbody>
<tr>
<td>X510HDM</td>
<td>2m/70cm/23cm</td>
<td>8.3/11.7</td>
<td>330/250</td>
<td>90</td>
<td>17.2</td>
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<td>UHF</td>
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<td>X7000A</td>
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<td>330/250</td>
<td>90</td>
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<td>X5000A</td>
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</tbody>
</table>

**NOTE:**
- **A.** High Power
- **B.** Repeater Version (for repeater use, derate power by 50%)
- **C.** Adjustable 50-54MHz
- **D.** 1/4" rated in dB
- **E.** 2m: 146-148MHz
- **F.** 6m: 52-54MHz
- **G.** 144MHz up: 200 watts, 6m: 20 watts FM, 50 watts PEP

[Image: Heavy-Duty Joint Coupling]
BB7V Multiband Antenna

Diamond's BB7V multifrequency vertical antenna provides coverage from 2 MHz to 30 MHz without radials. The BB7V has 6 teslascooping 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 wideband antenna solution. The BB7V is a very slim, low profile antenna.

HFV-5

The HFV-5 is a compact and portable multimode 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 antenna restricted areas. Easily attach to a push-up pole for HF operation 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) 

CP6AR-S Multiband Trap Antenna

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 required
- Easy Assembly
- No additional ground radials
- Mounting hardware included

CP610 Dualband 6m/10m Vertical Antenna

- Heavy-duty aluminum
- Overlapping outer shells for added strength
- Stainless steel hardware
- Wide band performance
- High gain
- High wind rating
- DC grounded

Frequency: 6m, 10m 
Power: 500 watts SSB, 200 watts FM 
Gain: 5.5 dBi (6m)/3.4 dBi (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: 50239 female UHF 
Max Wind Rating: 80 mph (no ice) 
Max Diameter Acceptance: 1.2" - 3.4"
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>
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<td>A140S5</td>
<td>2m 144-148MHz</td>
<td>11.8</td>
<td>100 (PEP)</td>
<td>80 MPH</td>
<td>37.5</td>
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<td>10 Elements</td>
<td>A, B, C</td>
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<tr>
<td>A140S5T</td>
<td>2m 144-148MHz</td>
<td>13</td>
<td>100 (PEP)</td>
<td>80 MPH</td>
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<td>UHF</td>
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<td>A430SL</td>
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<td>100 (PEP)</td>
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<td>59</td>
<td>UHF</td>
<td>15 Elements</td>
<td>A, B, C</td>
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</table>

**NOTE:**
- A: 2m (144) / 70cm (430)
- B: Input: SO-239/UHF (F) Output x2: PL-259/UHF (M)
- C: The SS77R will not work with the A430S5

---

### 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 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 3/6x24 base connector.

---

**Mobile Antennas**

- Monoband Antennas
- Dualband Antennas
- Mag/antenna combos & Triband Antennas
- Quad/Multiband, HF-VHF Antennas
- Handheld HT Antennas

---

**SD330 Specifications:**
- 3.5-30MHz or 7-50MHz
- 200 Watts (SSB)
- 2.5 Pounds
- UHF or 3/Bx24 connector
- 1/4x, center loading
- Less than 2.0 VSWR
- 73° @ 3 MHz, 66° @ 28 MHz
- See Page 17 for more information

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**A430S10**

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

**A144S5**

A144S5 is shown mounted on side mount bracket KB414. Three minute assembly. Ideal for portable or emergency use.

**A144S5S**

A144S5S is shown mounted on side mount bracket KB414.

**A502HB**

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Bands</th>
<th>Gain/dBi</th>
<th>Max Pwr.</th>
<th>Impedance</th>
<th>Length (inches)</th>
<th>Conn.</th>
<th>Element Phasing</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>mF95L</td>
<td>6m</td>
<td>2.15</td>
<td>200</td>
<td>50Ω</td>
<td>96.8</td>
<td>UHF</td>
<td>2/5/8l</td>
<td>B</td>
</tr>
<tr>
<td>mF95</td>
<td>8m</td>
<td>2.15</td>
<td>200</td>
<td>50Ω</td>
<td>96.8</td>
<td>UHF</td>
<td>2/5/8l</td>
<td>B</td>
</tr>
<tr>
<td>mF285S</td>
<td>144-172</td>
<td>3.4</td>
<td>200</td>
<td>52.4</td>
<td>52.4</td>
<td>UHF</td>
<td>5/8l</td>
<td>C</td>
</tr>
<tr>
<td>mF285S</td>
<td>144-172</td>
<td>3.4</td>
<td>200</td>
<td>52.4</td>
<td>52.4</td>
<td>UHF</td>
<td>5/8l</td>
<td>C</td>
</tr>
<tr>
<td>tF285S</td>
<td>144-172</td>
<td>3.4</td>
<td>200</td>
<td>52.4</td>
<td>52.4</td>
<td>UHF</td>
<td>5/8l</td>
<td>C</td>
</tr>
<tr>
<td>tF285S</td>
<td>144-172</td>
<td>3.4</td>
<td>200</td>
<td>52.4</td>
<td>52.4</td>
<td>UHF</td>
<td>5/8l</td>
<td>C</td>
</tr>
<tr>
<td>tF124N</td>
<td>23cm</td>
<td>8.4</td>
<td>100</td>
<td>25</td>
<td>25</td>
<td>N</td>
<td>4-5/8l</td>
<td>B</td>
</tr>
<tr>
<td>tF124N</td>
<td>23cm</td>
<td>8.4</td>
<td>100</td>
<td>25</td>
<td>25</td>
<td>N</td>
<td>4-5/8l</td>
<td>B</td>
</tr>
<tr>
<td>tF140</td>
<td>222-225 Mhz</td>
<td>3.8</td>
<td>100</td>
<td>36.2</td>
<td>36.2</td>
<td>NMD</td>
<td>1/4l + 5/8l</td>
<td>Black</td>
</tr>
<tr>
<td>tF150</td>
<td>303-308 Mhz</td>
<td>7</td>
<td>50</td>
<td>28.9</td>
<td>28.9</td>
<td>N</td>
<td>3-5/8l</td>
<td>B</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

**Dualband Mobile Antennas**

<table>
<thead>
<tr>
<th>Model</th>
<th>Bands</th>
<th>Gain/dBi</th>
<th>Max Pwr.</th>
<th>Height (inches)</th>
<th>Conn.</th>
<th>Element Phasing</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>NR300A</td>
<td>2m/70cm</td>
<td>3.76</td>
<td>300/550</td>
<td>57</td>
<td>UHF</td>
<td>1/2, 1/4l, 70cm: 3-5/8l</td>
<td>A</td>
</tr>
<tr>
<td>NR728WNO</td>
<td>2m/70cm</td>
<td>2.15/1.5</td>
<td>150</td>
<td>13.8</td>
<td>NMO</td>
<td>2m: 1/4l, 70cm: 1/2l</td>
<td>A, B Black</td>
</tr>
<tr>
<td>NR738WNO</td>
<td>2m/70cm</td>
<td>2.15/5.3</td>
<td>100</td>
<td>33.5</td>
<td>NMO</td>
<td>2m: 1/2l, 70cm: 2-5/8l</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: 1/2l, 70cm: 2-5/8l</td>
<td>Black</td>
</tr>
<tr>
<td>NR772HB</td>
<td>2m/70cm</td>
<td>3.0/5.5</td>
<td>200</td>
<td>38.2</td>
<td>UHF</td>
<td>2m: 1/2l, 70cm: 2-5/8l</td>
<td>Black</td>
</tr>
<tr>
<td>NR772HMNO</td>
<td>2m/70cm</td>
<td>3.0/5.5</td>
<td>200</td>
<td>40.2</td>
<td>NMO</td>
<td>2m: 1/2l, 70cm: 2-5/8l</td>
<td>Black</td>
</tr>
<tr>
<td>NR772HBMW</td>
<td>2m/70cm</td>
<td>3.0/5.5</td>
<td>200</td>
<td>40.2</td>
<td>NMO</td>
<td>2m: 1/2l, 70cm: 2-5/8l</td>
<td>Black</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>AZ504SP</td>
<td>2m/70cm</td>
<td>2.15</td>
<td>50</td>
<td>15.5</td>
<td>UHF</td>
<td>2m: 1/4c; 70cm: 1/2c</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: 1/2c; 70cm: 2-5/8u</td>
<td>C</td>
</tr>
<tr>
<td>SG7000A</td>
<td>2m/70cm</td>
<td>2.15/5.8</td>
<td>100</td>
<td>18.5</td>
<td>UHF</td>
<td>2m: 1/4c; 70cm: 2-5/8u</td>
<td>A, B</td>
</tr>
<tr>
<td>SG7000A</td>
<td>2m/70cm</td>
<td>3.5/6.0</td>
<td>150</td>
<td>40.4</td>
<td>UHF</td>
<td>2m: 1/2c; 70cm: 2-5/8u</td>
<td></td>
</tr>
<tr>
<td>SS7500MNMO</td>
<td>2m/70cm</td>
<td>3.5/6.0</td>
<td>150</td>
<td>41</td>
<td>NMO</td>
<td>2m: 1/2c; 70cm: 2-5/8u</td>
<td></td>
</tr>
<tr>
<td>SS7500A</td>
<td>2m/70cm</td>
<td>5.0/7.6</td>
<td>150</td>
<td>62.2</td>
<td>UHF</td>
<td>2m: 2-1/4l, 1-3/8l, 70cm: 3-5/8L</td>
<td>A</td>
</tr>
<tr>
<td>SS7500MNMO</td>
<td>2m/70cm</td>
<td>5.0/7.6</td>
<td>150</td>
<td>62.2</td>
<td>NMO</td>
<td>2m: 2-1/4l, 1-3/8l, 70cm: 3-5/8L</td>
<td></td>
</tr>
</tbody>
</table>

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

### 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>MR7350A</td>
<td>2m/70cm</td>
<td>2-15/5.4</td>
<td>150</td>
<td>19.5</td>
<td>SMA</td>
<td>2m: 1/4c, 70cm: 5/8u, Magnet</td>
<td>Black</td>
</tr>
<tr>
<td>MR735J</td>
<td>Same specs as MR7350A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MR755A</td>
<td>2m/70cm</td>
<td>2-15/5.4</td>
<td>25</td>
<td>20</td>
<td>SMA</td>
<td>2m: 1/4c, 70cm: 5/8u, Magnet</td>
<td>Black</td>
</tr>
<tr>
<td>MR75J</td>
<td>Same specs as MR755A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MR77</td>
<td>2m/70cm</td>
<td>2-15/5.4</td>
<td>70</td>
<td>20</td>
<td>UHF</td>
<td>2m: 1/2c, 70cm: 5/8u, Magnet</td>
<td>Black</td>
</tr>
<tr>
<td>MR77SMA</td>
<td>Same Specs as MR77</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MR77SMAJ</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MR772HRKS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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: 1/2c; 70cm: 2-5/8u, 23cm: 5-5/8u</td>
<td></td>
</tr>
<tr>
<td>CR320A</td>
<td>2mV:14v/70cm/6m</td>
<td>2.15/3.8/5.5</td>
<td>200/200/100</td>
<td>37.4</td>
<td>UHF</td>
<td>2m: 1/2c, 1-14c: 1/2c, 70cm: 2-5/8u</td>
<td>A,B, Black</td>
</tr>
<tr>
<td>CR320BNM O</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CR627B</td>
<td>2m/70cm/6m</td>
<td>4.5/7/2.15</td>
<td>120</td>
<td>60</td>
<td>UHF</td>
<td>2m: 3-1/4l, 70cm: 3-5/8L, 6m: 1/4l</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 SMAJ versions are perfect for connecting to your SMA handheld radios such as Baofeng & Wouxon

---

**NR Series Fold Over**

**Super Gainer Series Fold Over**
Quad / Multiband HF-VHF Mobile Antennas

**Model**
- CR8900A
- O220R
- SD330
- HV7A
- HV7C7
- HV7C14
- HV7C18
- HV7C21

**Bands**
- 10m/6m/2m/70cm
- 100-1600 MHz
- 3-30 MHz
- 10m/6m/2m/70cm
- 40m/20m/17m/15m

**Gain/dBi**
- 2.15 (10m/6m/2m)
- 27.5
- 66-73
- 54
- 10m/6m/2m/70cm

**Height**
- 50
- 66-73
- 1/4 Center Loading
- 54
- 10m/6m/2m/70cm

**Connector**
- UHF (PL-259)
- UHF or 3/8x24
- UHF
- UHF

**Notes**
- Not recommended for Magnet Mount.
- Grounding required
- Heavy Duty Follower
- 6m and 10m FM only.

**Tip:** For best performance, make sure CR8900A is securely grounded to your vehicle before tuning the 6m and 10m portions of the antenna.

**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 1.29GHz 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 K400A6000 series of mounts and will withstand wind speeds in excess of 100MPH.

**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.

**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>1/4&quot;, Retracted / 1/8&quot;, 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>Black bullet, 1/2&quot;, 900 receive, compact design.</td>
</tr>
<tr>
<td>RH310</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>RH307</td>
<td>2m</td>
<td>+3 dB</td>
<td>10</td>
<td>8.25</td>
<td>BNC</td>
<td>Tiltible whip</td>
</tr>
<tr>
<td>RH789</td>
<td>150/300/450/800/900 MHz</td>
<td>+6 dB</td>
<td>10</td>
<td>15.7</td>
<td>BNC</td>
<td>High Gain + Receive to 900 MHz</td>
</tr>
<tr>
<td>RH701</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>RH910</td>
<td>2m/70cm</td>
<td>-6 dB</td>
<td>10</td>
<td>10</td>
<td>BNC</td>
<td>High Gain + Receive to 900 MHz Extremely Flexible</td>
</tr>
<tr>
<td>SRH229</td>
<td>220-600 MHz</td>
<td>+4 dB</td>
<td>10</td>
<td>13.75</td>
<td>SMA (M)</td>
<td>High Gain, Flexible Whip. For ALMCO SJ-52FT</td>
</tr>
<tr>
<td>SRH815</td>
<td>2m/70cm</td>
<td>+3 dB</td>
<td>10</td>
<td>7.75</td>
<td>SMA (M)</td>
<td>High Gain + Receive to 900 MHz</td>
</tr>
<tr>
<td>RH77CA</td>
<td>2m/70cm</td>
<td>+4 dB</td>
<td>10</td>
<td>15</td>
<td>BNC</td>
<td>High Gain + Receive to 900 MHz</td>
</tr>
<tr>
<td>RH999</td>
<td>2m/70cm</td>
<td>+6 dB</td>
<td>10</td>
<td>19.5</td>
<td>BNC</td>
<td>High Gain + Receive to 900 MHz Extremely Flexible</td>
</tr>
<tr>
<td>RH701</td>
<td>2m/70cm</td>
<td>-6 dB</td>
<td>10</td>
<td>6.25</td>
<td>SMA (M)</td>
<td>Air band 150/300/450/600/900 MHz (incl.)</td>
</tr>
<tr>
<td>RH77CA</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>RH999</td>
<td>2m/70cm</td>
<td>+6 dB</td>
<td>10</td>
<td>19.5</td>
<td>SMA (M)</td>
<td>High Gain + Receive to 900 MHz Extremely Flexible</td>
</tr>
<tr>
<td>RH10</td>
<td>2m/70cm</td>
<td>-6 dB</td>
<td>10</td>
<td>6.25</td>
<td>SMA (M)</td>
<td>Air band 150/300/450/600/900 MHz (incl.)</td>
</tr>
<tr>
<td>RH101</td>
<td>2m/70cm</td>
<td>-6 dB</td>
<td>10</td>
<td>6.25</td>
<td>SMA (M)</td>
<td>Air band 150/300/450/600/900 MHz (incl.)</td>
</tr>
<tr>
<td>RH999</td>
<td>2m/70cm</td>
<td>+6 dB</td>
<td>10</td>
<td>19.5</td>
<td>SMA (M)</td>
<td>High Gain + Receive to 900 MHz Extremely Flexible</td>
</tr>
<tr>
<td>RH100</td>
<td>2m/70cm</td>
<td>-6 dB</td>
<td>10</td>
<td>19.5</td>
<td>SMA (M)</td>
<td>High Gain + Receive to 900 MHz Extremely Flexible</td>
</tr>
</tbody>
</table>

NOTE: Relative gain is Diamond's performance vs. typical stock HT antennas (rated at DB) - The DAs are made for radios with SMA male connector. (BAOFENG, WOUXUN)

**RH789 & SRH789 HT Telescoping Antennas**

230 to 1100 MHz, 400 MHz max, all full length, omnidirectional, telescoping, folds at base.

**RH789 Connector**: RNC
**SRH789 Connector**: SMA (M)

- **Bands**: 1/4", 1/2", (95 to 300 MHz)
- **Gain**: 1/2", 300 to 1100 MHz (incl.)
- **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 USA. The C101, C211 and C213 fit all diamond mounts (except K600). Use of very flexible RG-316 Mil-spec PTFE Coax, with SMA and Mini-UHF connectors, wiring your antenna through tight body panels has never been easier.

- C101 & K600, C211 & K600, C101/380 Kit, and C211 all have a special low-loss PL-259 adapter included. C110BNC & C115SMF are great cable extensions for attaching your mobile antenna to your handheld radio!

**CDDI**

Ideal cable assembly for truck mount/motorhome installations.

- **For ALMCO SJ-52FT**: 1.5' RG213, 50-259/086-UHF base for antenna connection - mini-UHF with PL-259 Adapter

**C3252MA**

For all Diamond K-Series mounts (except K600)

- **For ALMCO SJ-52FT**: 1.5' RG213, 50-259/UHF base for antenna connection - SMA Male with PL-259 Adapter

**C3252MD**

For all Diamond K-Series mounts (except K600, K400 and K500)

- **For ALMCO SJ-52FT**: 1.5' RG213 - SMA base for antenna connection - SMA Male with PL-259 Adapter

**C100**

3' RG316 - S0-239/UHF base for antenna connection - mini-UHF with PL-259 Adapter

**C210**

Replacement cable assembly for K400/M SMA antenna mount - 6' RG58/U

**C100-3/8C Kit**

Upgrade any K420 mount to a 50-259-3/8C.

- **For AMCO SJ-52FT**: Includes 3/4" threads, C110SMC cable, and PL-259/3/8C Adapter

**C105**

2' RG58-U/Mini-UHF 3/8 - mini-UHF (M) to mini-UHF (F)

- **Use with C101, C101BNC, 400 MHz, 1000 MHz 3/8C, HC-2000 & HC-2000M**

**C101**

6.5' RG316 - SO-239 UHF base for antenna connection - mini-UHF with PL-259 Adapter

- **C101SMMA**

4' extension cable for existing cables with PL-259. RG58/U cable, UHF Female (SO-239) to SMA Male

- **C101SMA**

6.5' RG316 - SO-239 UHF base for antenna connection - mini-UHF with PL-259 Adapter

- **C101BNC**

Upgrade any K420 mount to a 50-259-3/8C.

- **Use with C101, C101BNC, 400 MHz, 1000 MHz 3/8C, HC-2000 & HC-2000M**

**C101**

4' extension cable for existing cables with PL-259. RG58/U cable, UHF Female (SO-239) to SMA Male

- **C101SMA**

6.5' RG316 - SO-239 UHF base for antenna connection - mini-UHF with PL-259 Adapter

- **C101BNC**

Upgrade any K420 mount to a 50-259-3/8C.

- **Use with C101, C101BNC, 400 MHz, 1000 MHz 3/8C, HC-2000 & HC-2000M**

**C101**

6.5' RG316 - SO-239 UHF base for antenna connection - mini-UHF with PL-259 Adapter

- **C101SMA**

4' extension cable for existing cables with PL-259. RG58/U cable, UHF Female (SO-239) to SMA Male

- **C101SMA**

6.5' RG316 - SO-239 UHF base for antenna connection - mini-UHF with PL-259 Adapter

- **C101BNC**

Upgrade any K420 mount to a 50-259-3/8C.

- **Use with C101, C101BNC, 400 MHz, 1000 MHz 3/8C, HC-2000 & HC-2000M**

**C101**

6.5' RG316 - SO-239 UHF base for antenna connection - mini-UHF with PL-259 Adapter

- **C101SMA**

4' extension cable for existing cables with PL-259. RG58/U cable, UHF Female (SO-239) to SMA Male

- **C101SMA**

6.5' RG316 - SO-239 UHF base for antenna connection - mini-UHF with PL-259 Adapter

- **C101BNC**

Upgrade any K420 mount to a 50-259-3/8C.
**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>3/5/8</td>
<td>A, B</td>
</tr>
<tr>
<td>F22H</td>
<td>144-174 MHz</td>
<td>6.7</td>
<td>350</td>
<td>113</td>
<td>10.5'</td>
<td>UHF</td>
<td>2/7/8</td>
<td>A, B</td>
</tr>
<tr>
<td>X50C2</td>
<td>146-156 / 450-465 MHz</td>
<td>4.5/7.2</td>
<td>200</td>
<td>135</td>
<td>5.6'</td>
<td>UHF / B</td>
<td>144MHz: 3-1/4, 450MHz: 3-5/8</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>1/2-5/8, Radiations, Less than 2.0 YSWR</td>
<td>D</td>
</tr>
<tr>
<td>M29SS</td>
<td>144-172 MHz</td>
<td>3.4</td>
<td>200</td>
<td>-</td>
<td>52.4'</td>
<td>UHF</td>
<td>5/80</td>
<td>B</td>
</tr>
<tr>
<td>M29SSNM0</td>
<td>144-172 MHz</td>
<td>3.4</td>
<td>200</td>
<td>-</td>
<td>52.4'</td>
<td>NM0</td>
<td>5/80</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, F22H and mobile antennas like the M29SS and M29SSNM0, 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!

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**Mobile Installation Ideas**

Here are 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 K4000NM0 and an SD7500AM0 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!

**Need a heavy duty mount for your HF whips?**

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-road adventure!

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

**The possibilities are endless!**

**Don't have any room or a spot to mount on your truck?**

Here is a K9000TM mounted with a SD7500 Series antenna. 20' of cable for the swtch 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: Robert Pullman, K5JJC**

**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: Robert Pullman, K5JJC**

**Multi Use! You can use the SMA from the 5 series mounts to plug your mobile antennas coax directly into your handheld radio!**

**The possibilities are endless!**

**Need a slick low profile mount for your sweet ride?**

This SD330 is mounted on the trunk lip of a Dodge Challenger with a K400C mount. This 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.

**Need a slick low profile mount for your sweet ride?**

This SD330 is mounted on the trunk lip of a Dodge Challenger with a K400C mount. This 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!**

**Photo Courtesy: Robert Pullman, K5JJC**

**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!**

**Photo Courtesy: Robert Pullman, K5JJC**

*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 scratching or damaging your paint! 4 heavy duty set screws ensure that once mounted, the K400 is going to be secure.

The K400 is available in whatever connection type you need: UHF, NM0, or even 3/8x24 guaranteeing that the K400 will be the last mount you ever purchase.

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 SD cable
• PL-259 end connection

K600 Series
Heavy Duty Variable Angle Trunk Mount

Diamond Antennas K600 is a deluxe, heavy duty trunk lid 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
• SMA (M) end connection
• PL-259 adapter.

K600M Features:
• Stainless steel mount assembly
• SO-239 base connection
• Four set screws for secure mounting
• SMA (M) end connection
• PL-259 adapter.
For simple wiring of motor drive, a cigar plug is included. Mounting bracket and base fitment accepts “Ground Independent” antennas up to 20’ cable to switch. The mount bracket is fully adjustable from angles 45-90°. Recommended antennas:

- NR770HA, NR770HB, AZ507RS

A protective rubber sheet is attached to K900TM bracket which reduces possible discolorations or scratching of painted surfaces. The mount bracket has a spring-type back torque limiter which can prevent the antenna from rattling and protect the car and mount bracket.

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: AZ507RS, 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 K900TM 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-216 MH-type PTFE Coax
- SMA (M) end connection
- PL-259 adapter.

Recommended antennas: NR770HA, NR770HB, AZ507RS

Available Options:
- K900TM: Trunk Lip mount
- K900L/NM: Luggage Rack Mount
- K900L-AM: Luggage Rack Mount, Oversize

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

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’ RG58UA/U and PL-259

Available Options:
- K702M: Mount with cable assembly
- K702H/KHS: Mount, cable assembly, and NR770HB
- 2m/70cm mobile antenna

Specialty Antenna Mounts

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 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:
- SPM15: SO-239 base, 13” 3.5D-2V coax & PL-259
- SPM/NMO: NMO base, 13” 3.5D-2V coax & PL-259
- DPK/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

HRKS

SPM15

HRKS

K702M

HRKS

K702M

HRKS

K702M

HRKS

K702M

HRKS
**Duplexers and Triplexers**

**MX37**
- **Model**: MX37
- **Port**: LPF
- **Frequency (MHz)**: 1.6-470
- **Power Rating (W)**: 100
- **Impedance**: 50 ohm
- **Insertion Loss (dB)**: .25
- **Isolation (dB)**: 45
- **Mix Connection**: N-Jack (F)
- **Port Connections**: PL 25A / 12" SO-239 cable

**MX214**
- **Model**: MX214
- **Port**: HPF
- **Frequency (MHz)**: 905-1300
- **Power Rating (W)**: 50
- **Impedance**: 50 ohm
- **Insertion Loss (dB)**: .45
- **Isolation (dB)**: 45
- **Mix Connection**: N-Jack (F)
- **Port Connections**: PL 25A / 12" SO-239 cable

**MX225**
- **Model**: MX225
- **Port**: HPF
- **Frequency (MHz)**: 160-250
- **Power Rating (W)**: 200
- **Impedance**: 50 ohm
- **Insertion Loss (dB)**: .4
- **Isolation (dB)**: 40
- **Mix Connection**: PL 25A / NO cable
- **Port Connections**: PL 25A / NO cable

**MX82M**
- **Model**: MX82M
- **Port**: LPF
- **Frequency (MHz)**: 1.6-56
- **Power Rating (W)**: 200
- **Impedance**: 50 ohm
- **Insertion Loss (dB)**: .2
- **Isolation (dB)**: 50
- **Mix Connection**: PL 25A / 12" SO-239 cable
- **Port Connections**: PL 25A / 12" SO-239 cable

**MX72D**
- **Model**: MX72D
- **Port**: HPF
- **Frequency (MHz)**: 1.8-30
- **Power Rating (W)**: 140-150
- **Impedance**: 40 ohm
- **Insertion Loss (dB)**: .1
- **Isolation (dB)**: 60
- **Mix Connection**: PL 25A / NO cable
- **Port Connections**: PL 25A / NO cable

**MX72N**
- **Model**: MX72N
- **Port**: LPF
- **Frequency (MHz)**: 1.8-30
- **Power Rating (W)**: 400
- **Impedance**: 40 ohm
- **Insertion Loss (dB)**: .1
- **Isolation (dB)**: 60
- **Mix Connection**: PL 25A / NO cable
- **Port Connections**: PL 25A / NO cable

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

**Power and SWR Meters**

**MX20C, SX40C, SX240C**

**SX20C**
- **Model**: SX20C
- **Frequency (MHz)**: 1.8-60
- **Power Range**: 30/300/3KW
- **Max. Power (W)**: 20W
- **Conn.**: 50-200
- **VSWR**: 50-200

**SX40C**
- **Model**: SX40C
- **Frequency (MHz)**: 1.6-205
- **Power Range**: 5/20/200
- **Max. Power (W)**: 15W
- **Conn.**: 50-200
- **VSWR**: 50-200

**SX240C**
- **Model**: SX240C
- **Frequency (MHz)**: 1.8-54/470
- **Power Range**: 30/300/3KW
- **Max. Power (W)**: 12W
- **Conn.**: 50-200
- **VSWR**: 50-200

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.

12VDC @ 50mA is required if illuminated display is desired.

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

**SX20C and SX40C**: SWR minimum, 12W for best accuracy.

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)**

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

**GZV6000 (60 Amp)**

- **Did you know?:**
  - Weight: 12.8 lbs.
  - Size: 8.25” x 4.5” x 16”
  - 60 Amp continuous rating, 100% duty cycle.
  - Variable Voltage Control 1-15 V DC
  - Overload & short-circuit protection with Voltage Foldback at approximately 62 Amp

**Both Models Feature:**

- Voltage Control Knob has center detent at 13.5 VDC
- Overheating protection, with automatic variable speed fan
- 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

**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
  - Ins. Loss: 144MHz: Less than 0.3dB
    440MHz: Less than 0.6dB
    1200MHz: Less than 1.6dB

**CX Series**

**Heavy Duty Wideband Coax Switches**

- **CX10A:**
  - DC: 1000MHz
  - 1.5KW
  - SO-239 (UHF Female)

- **CX10N:**
  - DC: 1500MHz
  - 1.5KW
  - Type-N Female

- **CX10A/CX10N Connectors**
  - DC: 800MHz
  - 1.5KW: DC: 300MHz
  - 500W: 150-800MHz
  - SO: 239 (UHF Female)
SP100W: 
- Dimensions: 3.1"W x 2.2"H x 1.0"D 
- Weight: 0.3lbs.

Comparing the SP100W & SP3000W: 
- Dimensions & Weight

**More Photos**

K40SS mount with an NH790 (discontinued)
Photo Courtesy: Joe Affronti, K3SUU

X510/50W Base Antenna
Photo Courtesy: Wally Blake, N7L5X

X210A(left), X210S(right), Base Antenna
Photo Courtesy: Mike Muranetz, VE6WW

More important info

Connectors:
- Type N (Male) 
- Type N (Female)
- Mates With 

**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>LMR400</th>
<th>LMR-020</th>
<th>LMR-060</th>
<th>LMR-100</th>
<th>LMR-200 Ultraflex</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Mhz</td>
<td>0.64 / 1.6</td>
<td>0.67 / 1.6</td>
<td>1.49 / 1.4</td>
<td>1.49 / 1.4</td>
<td>3.7 / 1.4</td>
</tr>
<tr>
<td>50 Mhz</td>
<td>1.86 / 2.2</td>
<td>1.86 / 2.2</td>
<td>3.54 / 2.2</td>
<td>3.54 / 2.2</td>
<td>7.06 / 2.2</td>
</tr>
<tr>
<td>450 Mhz</td>
<td>5.10 / 4.4</td>
<td>5.10 / 4.4</td>
<td>10.20 / 4.4</td>
<td>10.20 / 4.4</td>
<td>20.40 / 4.4</td>
</tr>
<tr>
<td>1.2Ghz</td>
<td>10.20 / 0.8</td>
<td>10.20 / 0.8</td>
<td>20.40 / 0.8</td>
<td>20.40 / 0.8</td>
<td>40.80 / 0.8</td>
</tr>
</tbody>
</table>

Power Handling (Watts, +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**

K412 mount with an AZ5707xp
Photo Courtesy: Joel Affronti, K4ORF

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