

# UHF Broadband Arrays

## Heavy Duty Mountain Toppers

With their triple-wall masts, Cushcraft's heavy duty broadband arrays are rugged enough to withstand winds up to 100 mph (161 kph). They are also DC grounded for lightning protection.

Ideal for use in public safety, business, industrial, state and national parks, or wherever a rugged, conveniently sized omnidirectional antenna is required. Elements can be arranged for elliptical or omnidirectional coverage.

## 4068P/4508P Mountain Topper 9.3/12.3 gain

Our highest gain arrays are extremely heavy duty, thanks to thoroughly-coated dipole connections and molded harness splices which provide lifelong weatherproofing. Harnesses are precisely assembled for proper phase and impedance relationships to assure you of the best possible gain. The elements can be arranged to create any desired radiation pattern, from omnidirectional to elliptical.

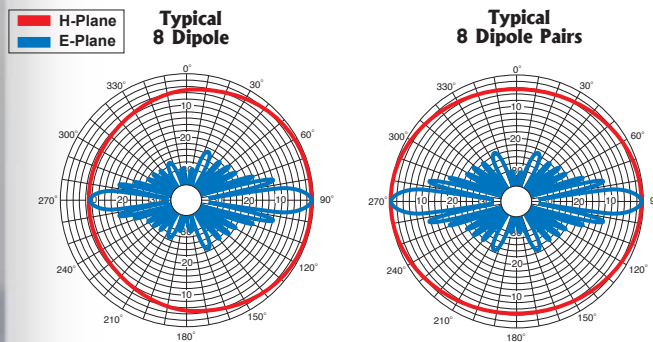
Choose either the 406-420 MHz 4068P or the 450-470 MHz 4508P. These antennas are ideal for dedicated or community repeater applications.

## Short Mountain Topper 4064P/4504P 6.8/9.8 dB gain

Half-size versions of the Mountain Topper, these antennas are designed for applications requiring less gain but demanding the same rugged performance characteristics. The 4064P offers a 406-420 MHz frequency range, while the 4504P range is 450-470 MHz.

## Four Dipole Arrays

You may customize these extremely rugged 450-470 MHz antennas to provide offset or omnidirectional coverage by simply orienting the elements.



Use SA suffix for single dipole broadband array without mast and PA suffix for paired dipole broadband array without mast.

### MOUNTAIN TOPPER SELECTOR GUIDE

| Model  | Freq. MHz | Omni Gain dBd | Offset Gain dBd | Connector Type | VSWR (nominal) | Vert. Bmwdth | W/sur. area ft <sup>2</sup> (m <sup>2</sup> ) | W/surv. mph (kph) | W/1/2" ice mph (kph) | Length ft. (m) | Weight lb. (kg) |
|--------|-----------|---------------|-----------------|----------------|----------------|--------------|---|-------------------|----------------------|----------------|-----------------|
| 3508S  | 350-360   | 9.2           | 12.2            | N-male         | 1.5:1          | 7            | 4.0 (.37)                                     | 100 (161)         | 74 (120)             | 24 (7.3)       | 42 (19)         |
| 4062P  | 406-420   | 3.8           | 5.0             | N-male         | 1.5:1          | 27           | 1.2 (0.11)                                    | 100 (161)         | 74 (120)             | 4.2 (1.3)      | 15 (7)          |
| 4064P  | 406-420   | 6.8           | 9.8             | N-male         | 1.5:1          | 14           | 1.9 (0.18)                                    | 100 (161)         | 74 (120)             | 9.5 (2.9)      | 19 (9)          |
| 4064S  | 406-420   | 6.0           | 9.0             | N-male         | 1.5:1          | 14           | 1.5 (0.14)                                    | 100 (161)         | 74 (120)             | 9.5 (2.9)      | 15 (7)          |
| 4068P  | 406-420   | 9.3           | 12.3            | N-male         | 1.5:1          | 7            | 3.4 (0.31)                                    | 100 (161)         | 74 (120)             | 18.5 (5.6)     | 36 (16)         |
| 4068S  | 406-420   | 9.3           | 12.3            | N-male         | 1.5:1          | 7            | 2.5 (0.23)                                    | 100 (161)         | 74 (120)             | 18.5 (5.6)     | 34 (15)         |
| 4502P  | 450-470   | 3.8           | 5.0             | N-male         | 1.5:1          | 27           | 1.2 (0.11)                                    | 100 (161)         | 74 (120)             | 4.2 (1.3)      | 15 (7)          |
| 4504P  | 450-470   | 6.8           | 9.8             | N-male         | 1.5:1          | 14           | 1.9 (0.18)                                    | 100 (161)         | 74 (120)             | 9.5 (2.9)      | 19 (9)          |
| 4504PT | 450-470   | 6.5           | 9.5             | N-male         | 1.5:1          | 14           | 1.9 (0.18)                                    | 100 (161)         | 74 (120)             | 9.5 (2.9)      | 19 (9)          |
| 4504S  | 450-470   | 6.0           | 9.0             | N-male         | 1.5:1          | 14           | 1.5 (0.14)                                    | 100 (161)         | 74 (120)             | 9.5 (2.9)      | 15 (7)          |
| 4508P  | 450-470   | 9.3           | 12.3            | N-male         | 1.5:1          | 7            | 3.4 (0.310)                                   | 100 (161)         | 74 (120)             | 18.5 (5.6)     | 36 (16)         |
| 4508S  | 450-470   | 9.0           | 12.0            | N-male         | 1.5:1          | 7            | 2.5 (0.23)                                    | 100 (161)         | 74 (120)             | 18.5 (5.6)     | 34 (15)         |
| 4704S  | 470-490   | 6.2           | 9.2             | N-male         | 1.5:1          | 14           | 1.4 (.13)                                     | 100 (161)         | 74 (120)             | 9.5 (2.9)      | 16 (8)          |
| 4708P  | 470-490   | 9.3           | 10.5            | N-male         | 1.5:1          | 7            | 3.3 (.30)                                     | 100 (161)         | 74 (120)             | 17 (5.3)       | 33 (15)         |
| 4708S  | 470-490   | 9.3           | 12.2            | N-male         | 1.5:1          | 7            | 2.4 (.22)                                     | 100 (161)         | 74 (120)             | 17 (5.3)       | 31 (14)         |
| 4904S  | 490-512   | 6.2           | 9.2             | N-male         | 1.5:1          | 14           | 1.4 (.13)                                     | 100 (161)         | 74 (120)             | 9.5 (2.9)      | 16 (8)          |

Common Specifications: Power handling - 500 Watts; Element - 6063-T832 3/8 in (.95 cm) aluminum folded dipole; Mast - 6061-T6 1-3/4 in (4.44 cm) aluminum tube; Harness - RG8/RG11; Maximum mast diameter - 2-3/4 in (7.0 cm).



SMK Side-Mount Kit

4508P