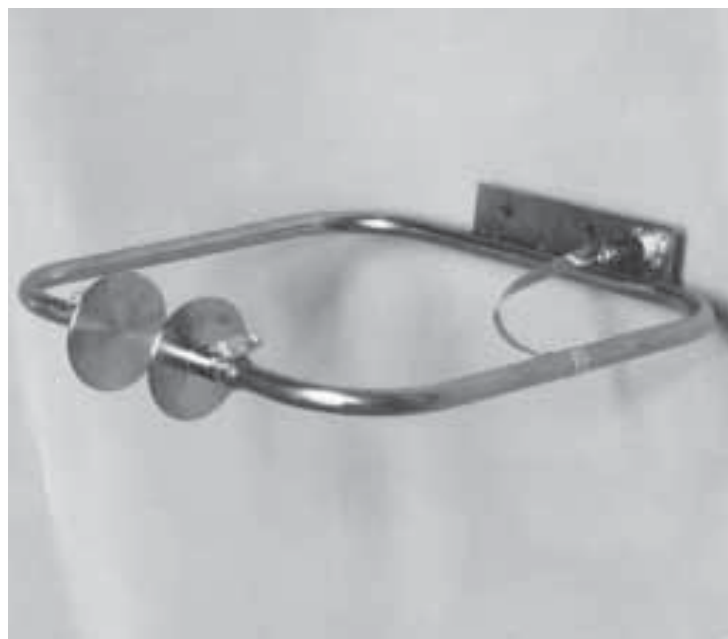


Model 6602B Horizontally-Polarized FM Antenna Full-Wave-Spaced

Horizontal Polarization
 Perfect for Translators
 Digital Ready
 No Pressurization Needed
 The Choice of Campus Broadcasters
 All Stainless Steel Construction
 Designed for Pipe Mounting
 Economical
 No Factory Personnel Needed to Install
 Radomes and Deicers Available
 Special Spacing, Null Fill, Beam Tilt Available



Electrical Specifications:

| No. of Bays | Gain | | Power Rating W | No. of Bays | Gain | | Power Rating W |
|-------------|-------|-------|-------------------|-------------|-------|------|-------------------|
| | Power | dB | | | Power | dB | |
| 1 | 0.92 | -0.36 | 1000 | 5 | 5.12 | 7.09 | 1500 |
| 2 | 1.98 | 2.97 | 1500 | 6 | 6.15 | 7.89 | 1500 |
| 3 | 3.05 | 4.84 | 1500 | 7 | 7.18 | 8.56 | 1500 |
| 4 | 4.09 | 6.12 | 1500 | 8 | 8.22 | 9.15 | 1500 |

Performance Specifications:

Polarization: Horizontal
 VSWR: 1.1 : 1 ± 100 kHz
 1.2 : 1 ± 200 kHz
 Input Connection: Type "N" female
 Mounting: Must be mounted on a metal pipe, 2" IPS (2-3/8 in) to 3" IPS (3-1/2 in) (60 - 89 mm) outside diameter. Pipe not supplied by Shively; requires 5 ft (1.6 m) of pipe

above and below antenna.

Notes:

- Our gain figures are calculated by factoring the directivity to allow for losses in the radiating system. Due to this conservative approach, you are assured of radiating maximum ERP by using Shively's published gain figures.

Gain is provided for horizontal polarization only. Gain will be reduced if null fill, beam tilt, or special wavelength spacing

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ing is provided.

| No. of Bays | Vertical Tower Space | | | | | | Weight | | | | | |
|-------------|----------------------------|------|----------------------|------|-------------------------------|------|-----------------|-----|--------------|------|---|------|
| | Antenna Radiation Aperture | | Pipe Length Required | | Total Tower Space Recommended | | Without radomes | | With radomes | | With radomes & 1/2" (1.2 cm) radial ice | |
| | ft | m | ft | m | ft | m | lb | N | lb | N | lb | N |
| 1 | 2.0 | 0.6 | 12.0 | 3.7 | 22.0 | 6.7 | 3 | 13 | 38 | 169 | 57 | 254 |
| 2 | 8.5 | 2.6 | 18.5 | 5.6 | 28.5 | 8.7 | 10 | 45 | 80 | 357 | 122 | 544 |
| 3 | 17.0 | 5.2 | 27.0 | 8.2 | 37.0 | 11.3 | 17 | 76 | 122 | 544 | 187 | 834 |
| 4 | 25.5 | 7.8 | 35.5 | 10.8 | 45.5 | 13.9 | 23 | 103 | 163 | 727 | 252 | 1124 |
| 5 | 34.0 | 10.4 | 44.0 | 13.4 | 54.0 | 16.5 | 30 | 134 | 205 | 914 | 317 | 1414 |
| 6 | 42.5 | 13.0 | 52.5 | 16.0 | 62.5 | 19.1 | 37 | 165 | 247 | 1102 | 382 | 1704 |
| 7 | 51.0 | 15.5 | 61.0 | 18.6 | 71.0 | 21.6 | 43 | 192 | 288 | 1284 | 447 | 1994 |
| 8 | 59.5 | 18.1 | 69.5 | 21.2 | 79.5 | 24.2 | 50 | 223 | 330 | 1472 | 513 | 2288 |

Model 6602B Size and Weight (full-wave-spaced):

| No. of Bays | Revision 'C' | | | | | | Revision 'F' | | | | | |
|-------------|-----------------|-----|--------------|------|---|------|--------------------|----------------|--------------------|----------------|---|----------------|
| | Without radomes | | With radomes | | With radomes & 1/2" (1.2 cm) radial ice | | Without radomes | | With radomes | | With radomes & 1/2" (1.2 cm) radial ice | |
| | lb | N | lb | N | lb | N | (ft ²) | m ² | (ft ²) | m ² | (ft ²) | m ² |
| 1 | 5 | 22 | 66 | 294 | 73 | 326 | 0.2 | 0.0 | 1.7 | 0.2 | 1.9 | 0.2 |
| 2 | 13 | 58 | 134 | 598 | 153 | 682 | 0.4 | 0.0 | 3.5 | 0.3 | 4 | 0.4 |
| 3 | 20 | 89 | 202 | 901 | 234 | 1044 | 0.6 | 0.1 | 5.4 | 0.5 | 6.3 | 0.6 |
| 4 | 28 | 125 | 270 | 1204 | 315 | 1405 | 0.9 | 0.1 | 7.2 | 0.7 | 8.5 | 0.8 |
| 5 | 35 | 156 | 339 | 1512 | 395 | 1762 | 1.1 | 0.1 | 9 | 0.8 | 10.7 | 1.0 |
| 6 | 42 | 187 | 407 | 1815 | 476 | 2123 | 1.3 | 0.1 | 10.8 | 1.0 | 12.9 | 1.2 |
| 7 | 49 | 219 | 475 | 2119 | 557 | 2484 | 1.5 | 0.1 | 12.6 | 1.2 | 15.1 | 1.4 |
| 8 | 57 | 254 | 543 | 2422 | 637 | 2841 | 1.8 | 0.2 | 14.4 | 1.3 | 17.3 | 1.6 |

Windload (full-wave-spaced):

Notes:

- Antenna radiation aperture is the distance from the center of the top bay to the center of the bottom bay. Five ft of pipe is required above the top of the top bay and below the bottom of the bottom bay. Total tower space recommended allows ten ft of clear tower space above and below the pipe to protect from pattern interference by other antennas.
- Antennas with two bays or an odd numbers of bays are end-fed; antennas with even numbers of bays are center-fed.
- Windload and weight numbers given are typical. Actual values vary with the specific installation. Contact us with details of your installation if more precise values are needed.
- Weight, windload, and space tabulations assume 98 MHz and include the bay, interbay feedline, input connection, and standard mounting brackets. At lower frequencies, length will increase by approximately 1 ft (31 cm) per bay.
- Antenna windloads are calculated for 112 mph (180 kph), using 50 psf (2400 N/m²) for flats and 33 psf (1600 N/m²) for rounds] per IFA standard AS-222-C and CSA standard S37-94. The surface area is calculated per IFA standard AS-222-F (C_aA_c).
- Deicers add approximately 1 lb (4.4 N) per bay in weight and 2 lb (8.9 N) or 0.3 ft² (0.028m²) per bay in windload.