

# FM-34

## FM ANTENNA

### FEATURES

- vertical polarization
- broadband 87.5 ÷ 108 MHz
- 5 dB gain
- omnidirectional pattern with preferred direction



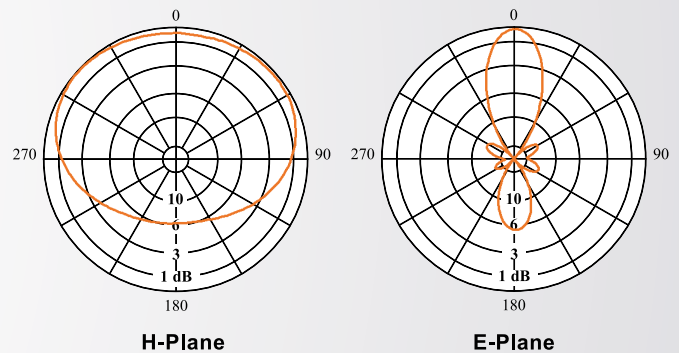
### ELECTRICAL DATA

|                                     |                                 |
|-------------------------------------|---------------------------------|
| ANTENNA TYPE                        | FM-34                           |
| FREQUENCY RANGE                     | 87.5 ÷ 108 MHz                  |
| IMPEDANCE                           | 50 ohm                          |
| CONNECTOR                           | 1-5/8" EIA                      |
| MAX POWER                           | 10 kW                           |
| VSWR                                | ≤ 1.2                           |
| POLARIZATION                        | Vertical                        |
| GAIN (referred to half wave dipole) | 5 dB                            |
| HALF POWER BEAMWIDTH                | E-Plane ± 18°<br>H-Plane ± 110° |
| LIGHTNING PROTECTION                | All metal parts DC grounded     |

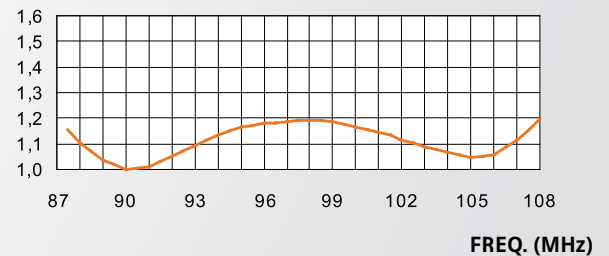
### MECHANICAL DATA

|  |  |
|--|--|
| DIMENSIONS mm (in)                             | 1120 x 4350 x 200<br>(44.1 x 171.3 x 7.87)   |
| WEIGHT kg (lb)                                 | 26 (57.3)  |
| WIND SURFACE m <sup>2</sup> (ft <sup>2</sup> ) | 0.7 (7.53)   |
| WIND LOAD kN (lbf)<br>at 160 km/h (100 mph)    | 0.86 (193)   |
| MAX WIND VELOCITY km/h (mph)                   | 220 (136.7)  |
| MATERIALS                                      | External parts (aluminium)<br>Internal parts (silver plated brass,<br>polished brass, deoxidized aluminium)<br>Radome (fiberglass) |
| ICING PROTECTION                               | Feed point radome  |
| RADOME COLOUR                                  | Grey (standard)  |
| MOUNTING                                       | Directly on top of existing mast by<br>means of a flange   |

### RADIATION PATTERNS (Mid Band)



### VSWR



### GAIN (dB)

