

Band III 4 dipoles horizontal polarization panel • Especially suitable for square masts

### Electrical Specifications

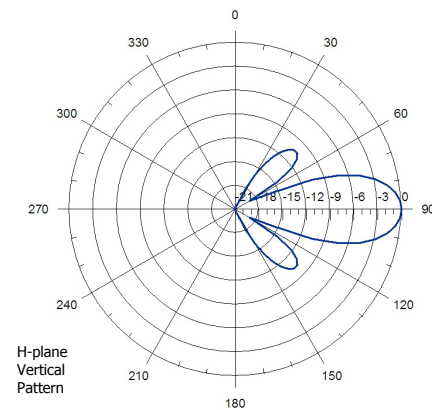
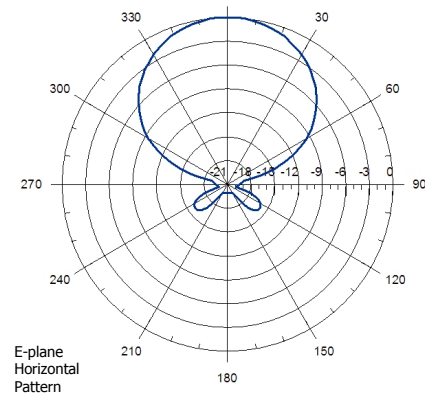
|                                  |                                   |                                |           |
|----------------------------------|-----------------------------------|--------------------------------|-----------|
| Frequency range                  | 174-230 MHz                       |                                |           |
| Peak gain                        | 10.5 dB (ref. $\lambda/2$ dipole) |                                |           |
| 3 dB beam width                  | E-plane: 69°                      | H-plane: 25°                   |           |
| Polarization                     | Horizontal                        |                                |           |
| Impedance                        | 50 Ohm                            |                                |           |
| VSWR                             | ≤1.1:1                            |                                |           |
| Maximum power handling peak sync | 2 kW                              | 3.5 kW                         | 6 kW      |
| Maximum power handling RMS       | 1.4 kW                            | 2.5 kW                         | 4.2 kW    |
| Connector type                   | DIN 7/16                          | EIA 7/8"                       | DIN 13/30 |
| Pressurization                   | Non pressurized                   | Gas barrier on input connector |           |

### Mechanical & Environmental Specifications

|                        |   |  |
|------------------------|---|--|
| Materials              | Reflector & dipoles<br>Feed points radome | Hot dip galvanized steel<br>Fiberglass |
| Dimensions (W x D x H) | 1250 x 500 x 2900 mm                      |  |
| Maximum wind speed     | 200 km/h                                  |  |
| Wind load (front)      | 1590 N (@160 km/h)                        |  |
| Wind load (lateral)    | 950 N (@160 km/h)                         |  |
| Weight                 | 68 Kg                                     |  |
| Typical mounting       | Square arrangement tower                  |  |
| Clamp type             | To $\varnothing$ 80 – 115 mm pipe         |  |
| Vertical spacing       | 3200 mm                                   |  |
| Grounding              | DC grounded                               |  |
| Temperature range      | -40°C to +80°C                            |  |
| Humidity               | 100%                                      |  |

### Antenna System Characteristics

| Number of Bays | Number ant. per bay | Peak gain (dBd) | Weight (kg) | Wind load (@160 km/h) | System height (mm) |
|----------------|---------------------|-----------------|-------------|-----------------------|--------------------|
| 1              | 2                   | 8.5             | 136         | 2.5 kN                | 2900               |
|                | 3                   | 6.7             | 204         | 3.5 kN                |                    |
|                | 4                   | 5.5             | 272         | 4.3 kN                |                    |
| 2              | 2                   | 11.5            | 272         | 5.1 kN                | 6100               |
|                | 3                   | 9.7             | 408         | 7.0 kN                |                    |
|                | 4                   | 8.5             | 544         | 8.5 kN                |                    |
| 4              | 2                   | 14.5            | 544         | 10.1 kN               | 12500              |
|                | 3                   | 12.7            | 816         | 13.9 kN               |                    |
|                | 4                   | 11.5            | 1088        | 17.1 kN               |                    |
| 6              | 2                   | 16.3            | 816         | 15.2 kN               | 18900              |
|                | 3                   | 14.5            | 1224        | 20.9 kN               |                    |
|                | 4                   | 13.3            | 1632        | 25.6 kN               |                    |
| 8              | 2                   | 17.5            | 1088        | 20.2 kN               | 25300              |
|                | 3                   | 15.7            | 1632        | 27.8 kN               |                    |
|                | 4                   | 14.5            | 2176        | 34.2 kN               |                    |



**NOTES:**

- Table supplies data up to 8 bays only for simplification purposes; systems with more bays are available.
- Null fill, beam tilt, harness & feeder losses NOT INCLUDED.
- Wind load & weight figures without considering cables, splitters & hardware.

TV VHF