

Band I 2 crossed dipoles circular/elliptical polarization panel • Especially suitable for triangular masts

### Electrical Specifications

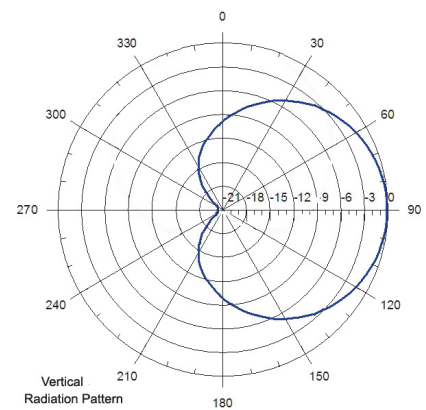
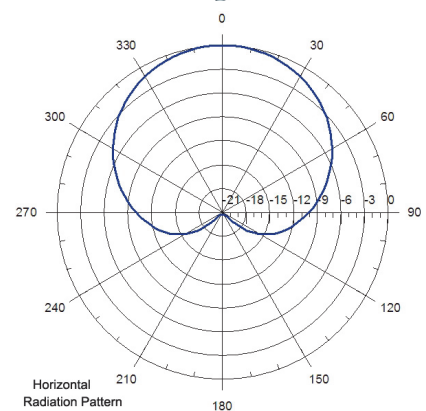
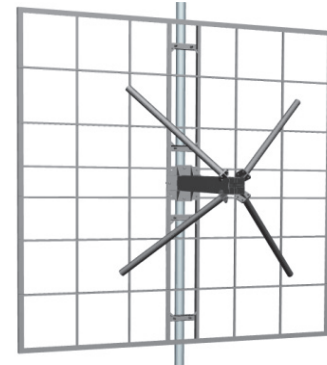
|   |  |  |               |
|---|--|--|---------------|
| Frequency range                                   | 54-88 MHz  |  |               |
| Peak gain   | 4.5 dB (ref. $\lambda/2$ dipole) (circular polarization) |  |               |
| 3 dB beam width                                   | E-plane: 92°   | H-plane: 92°   |               |
| Polarization                                      | Circular/ elliptical                                     |  |               |
| Impedance   | 50 Ohm   |  |               |
| VSWR  | ≤1.1:1 (with circular polarization)                      |  |               |
| Maximum power handling peak sync. (per connector) | 6 kW (3 kW)  | 10 kW (6 kW)   | 22 kW (11 kW) |
| Connector type (2 per antenna)                    | 2 x DIN 7/16   | 2 x EIA 7/8"   | 2 x DIN 13/30 |
| Pressurization                                    | Non pressurized  | Gas barrier on input connector<br>Fully pressurized as an option |               |

### Mechanical & Environmental Specifications (Channel 4)

|                        |                              |
|------------------------|------------------------------|
| Materials              | Hot dip galvanized steel     |
| Dimensions (W x D x H) | 2590 x 1351 x 2590 mm        |
| Maximum wind speed     | 200 km/h                     |
| Wind load (front)      | 1600 N (@160 km/h)           |
| Wind load (lateral)    | 610 N (@160 km/h)            |
| Weight                 | 110 kg                       |
| Typical mounting       | Triangular arrangement tower |
| Clamp type             | To Ø 80 – 115 mm pipe        |
| Vertical spacing       | 4200 mm typical              |
| 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                   | 1.8             | 220         | 2.9 kN                | 2590               |
|                | 3                   | 0.1             | 330         | 4.3 kN                |                    |
| 2              | 2                   | 4.8             | 440         | 5.9 kN                | 6790               |
|                | 3                   | 3.1             | 660         | 8.5 kN                |                    |
| 4              | 2                   | 7.8             | 880         | 11.7 kN               | 15190              |
|                | 3                   | 6.1             | 1320        | 17.1 kN               |                    |
| 6              | 2                   | 9.6             | 1320        | 17.6 kN               | 23590              |
|                | 3                   | 7.8             | 1980        | 25.5 kN               |                    |
| 8              | 2                   | 10.8            | 1760        | 23.4 kN               | 31990              |
|                | 3                   | 9.1             | 2640        | 34.1 kN               |                    |



**NOTES:**

- Null fill, beam tilt, harness & feeder losses NOT INCLUDED.
- Wind load & weight figures without considering cables, splitters & hardware.