

Band IV/V horizontal polarization panel • Especially suitable for square masts

### Electrical Specifications

|                                  |                                    |                                |              |            |
|----------------------------------|------------------------------------|--------------------------------|--------------|------------|
| Frequency range                  | 470-862 MHz                        |                                |              |            |
| Peak gain                        | 11.35 dB (ref. $\lambda/2$ dipole) |                                |              |            |
| 3 dB beam width                  | E-plane: 61°                       |                                | H-plane: 26° |            |
| Polarization                     | Horizontal                         |                                |              |            |
| Impedance                        | 50 Ohm                             |                                |              |            |
| VSWR                             | ≤1.1:1                             |                                |              |            |
| Maximum power handling peak sync | 1.4 kW                             | 3.5 kW                         | 4.2 kW       | 6.5 kW     |
| Maximum power handling RMS       | 1 kW                               | 2.5 kW                         | 3 kW         | 4.5 kW     |
| Connector type                   | DIN 7/16                           | EIA 7/8"                       | DIN 13/30    | EIA 1 5/8" |
| Pressurization                   | Non pressurized                    | Gas barrier on input connector |              |            |



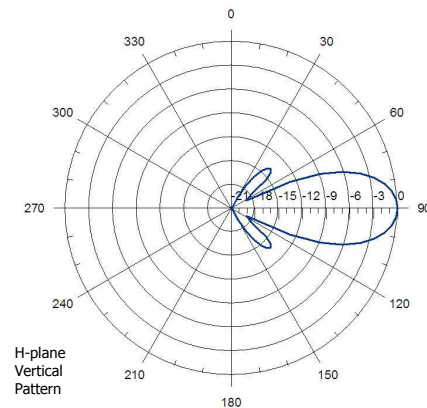
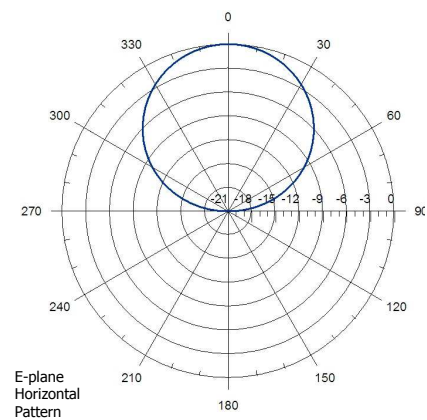
TV UHF

### Mechanical & Environmental

|                        |                                |   |
|------------------------|--------------------------------|---|
| Materials              | Reflector & radiating elements | Aluminium<br>(Stainless steel available on request)                               |
|                        | Radome<br>Radome colour        | Fiberglass<br>Red or white on request   |
| Dimensions (W x D x H) |                                | 483 x 264 x 983 mm  |
| Maximum wind speed     |                                | 220 km/h  |
| Wind load (front)      |                                | 743 N (@160 km/h)   |
| Wind load (lateral)    |                                | 258 N (@160 km/h)   |
| Weight                 |                                | 10 Kg (model with DIN 7/16 connector)   |
| Typical mounting       |                                | Several combinations depending on the radiation pattern required (square typical) |
| Vertical spacing       |                                | 1000 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                   | 8.4             | 20          | 1.1 kN                | 1000               |
|                | 3                   | 6.6             | 30          | 1.6 kN                |                    |
|                | 4                   | 5.3             | 40          | 1.5 kN                |                    |
| 2              | 2                   | 11.4            | 40          | 2.2 kN                | 2000               |
|                | 3                   | 9.6             | 60          | 3.2 kN                |                    |
|                | 4                   | 8.3             | 80          | 3.1 kN                |                    |
| 4              | 2                   | 14.4            | 80          | 4.4 kN                | 4000               |
|                | 3                   | 12.6            | 120         | 6.4 kN                |                    |
| 6              | 4                   | 11.4            | 160         | 6.2 kN                | 6000               |
|                | 2                   | 16.1            | 120         | 6.6 kN                |                    |
|                | 3                   | 14.4            | 180         | 9.6 kN                |                    |
| 8              | 4                   | 13.1            | 240         | 9.3 kN                | 8000               |
|                | 2                   | 17.4            | 160         | 8.8 kN                |                    |
|                | 3                   | 15.6            | 240         | 12.8 kN               |                    |
|                | 4                   | 14.4            | 320         | 12.4 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.