

XPOL panel antenna 65°, 15dBi, 380-470 MHz

DESCRIPTION

The 760/766 series of UHF Panel antenna has been designed for TETRA / UHF Trunked Radio applications, offering a stable performance an PIM specification over a wide bandwidth. Available in VPOL and XPOL formats, the main housing of the antenna is made from corrosion resistant marine grade aluminium. The antennas compact design gives very low wind loading characteristics, and combined with the low weight of the antenna, aids in the reduction of structural loading.

- Former Skymasts brand product.

SPECIFICATIONS

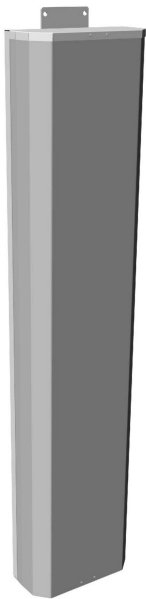
| Electrical | |
|--------------------------------|--|
| Frequency | 380 - 470 MHz |
| Polarisation | ±45° |
| Peak Instantaneous Power (PIP) | 25 kW |
| 3 dB Beamwidth, E-Plane | 17° ±2° |
| 3 dB Beamwidth, H-Plane | 68° ±5° |
| Impedance | 50 Ω |
| Gain | 12.9 dBi (15 dBi) |
| Port-Port Isolation | ≥ 27dB |
| SWR | < 1.5:1 |
| Maximum Input Power | 2 x 400 W |
| Front-To-Back Ratio | > 23 dB |
| Cross Polar Discrimination | 30 dB |
| Passive Intermodulation | -153dBc (3rd Order, 2 x Tx @ 43dBm) |
| Antistatic Protection | All metal parts DC-grounded (Connector shows a DC-short) |

| Mechanical | |
|----------------------------|---|
| Connection(s) | 2 x 7/16(f) |
| Materials | Radome: White ASA UV resistant Housing: Aluminium 5083 (marine) |
| Dimensions | 1840mm x 400mm x 170mm |
| Wind Load | 593 N (160km/h) |
| Weight | 12.5 kg / 27.56 lb |
| Mounting Bracket | Fixed Bracket: 766.700 (Ordered Separately) |
| Alternate Mounting Bracket | Tilt bracket: 766.7010 (0 - 12°) 766.7020 (0 - 22°) (Ordered Separately) |

| Environmental | |
|-----------------------------|--------------|
| Operating Temperature Range | -40 to 75 °C |
| Survival Wind Speed | 270 km/h |
| Ingress Protection | IP56 |

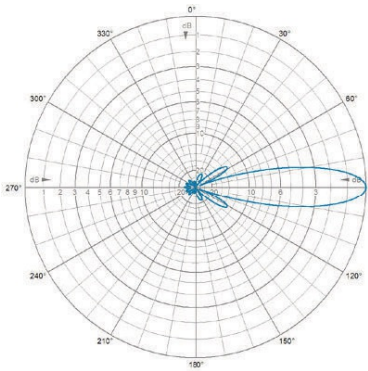
ORDERING

| Type | Product No. | Description | Frequency |
|---|----------------|--------------------------------------|---------------|
| XPOL panel antenna 65°, 15dBi, 380-470 MHz | 766.65.15.00 | 7/16(f) termination | 380 - 470 MHz |
| XPOL panel antenna 65°, 15dBi, 380-470 MHz | 766.65.15.00-N | N(f) termination (not PIM specified) | 380 - 470 MHz |
| Bracket kit for 760/766 panel (no tilt) | 766.700 | | |
| Bracket kit for 760/766 panel (large), 0-12dg | 766.7010 | | |



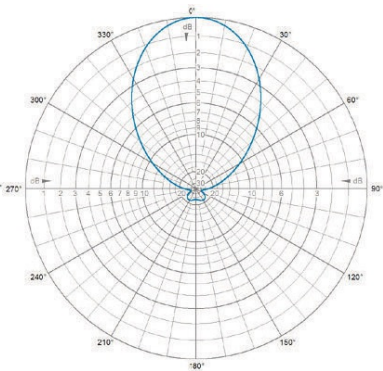
DIAGRAM

RADIATION PATTERNS



E-Plane | 425 MHz

RADIATION PATTERNS



H-Plane | 425 MHz

