

VPOL 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 and 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 antenna's 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

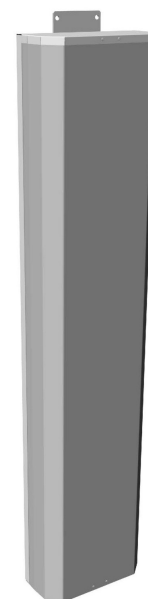
Electrical	
Frequency	380 - 470 MHz
Max. Input Power	400 W
Polarisation	Vertical
Peak Instantaneous Power (PIP)	25 kW
3 dB Beamwidth, E-Plane	17° ±2°
3 dB Beamwidth, H-Plane	68° ±5°
Impedance	50 Ω
Gain	12.9 dBd (15 dBi)
VSWR	< 1.5:1
Front-To-Back Ratio	> 20 dB
Passive Intermodulation	-153dBc (3rd Order, 2 x Tx @ 43dBm)
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)

Mechanical	
Connection(s)	7/16 DIN(f)
Materials	Radome: White ASA UV resistant Housing: Aluminium 5083 (marine)
Dimensions	1840 x 400 x 170 mm
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

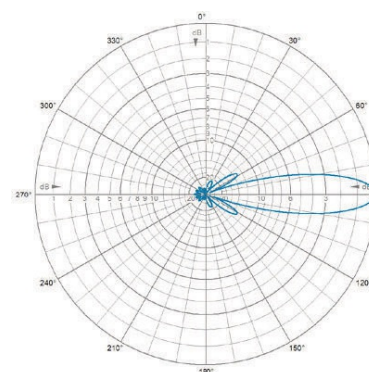
ORDERING

Model	Product No.	Description	Frequency
VPOL panel antenna 65°, 15dBi,380-470 MHz	760.65.15.00	0° Electrical Tilt	380 - 470 MHz
VPOL panel antenna 65°, 15dBi,380-470 MHz	760.65.15.05	5° Electrical Tilt	380 - 470 MHz
VPOL panel antenna 65°, 15dBi,380-470 MHz	760.65.15.10	10° Electrical Tilt	380 - 470 MHz
VPOL panel antenna 65°, 15dBi,380-470 MHz	760.65.15.15	15° Electrical Tilt	380 - 470 MHz
VPOL panel antenna 65°, 15dBi,380-470 MHz	760.65.15.00-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		



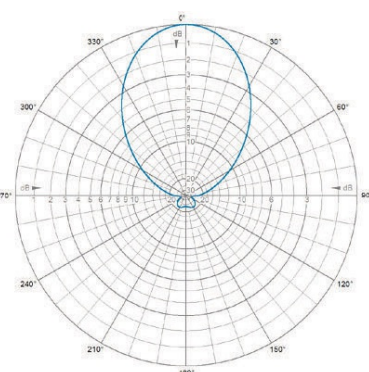
DIAGRAM

RADIATION PATTERNS



E-Plane | 425 MHz

RADIATION PATTERNS



H-Plane | 425 MHz