

VPOL panel antenna 120°, 8dBi, 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

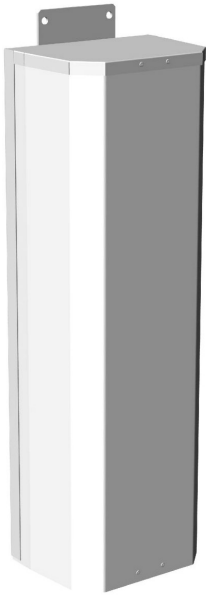
Electrical	
Frequency	380 - 470 MHz
Polarisation	Vertical
Peak Instantaneous Power (PIP)	25 kW
3 dB Beamwidth, E-Plane	38° ±2°
3 dB Beamwidth, H-Plane	115° ±5°
Impedance	50 Ω
Gain	5.9 dBd (8 dBi)
SWR	< 1.5:1
Maximum Input Power	200 W
Front-To-Back Ratio	> 18 dB
Passive Intermodulation	-153dBc (3rd Order, 2 x Tx @ 43dBm)
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)

Mechanical	
Connection(s)	7/16(f)
Materials	Radome: White ASA UV resistant Housing: Aluminium 5083 (marine)
Dimensions	920mm x 300mm x 216mm
Wind Load	223 N (160km/h)
Weight	6.5 kg / 14.33 lb
Mounting Bracket	Fixed Bracket: 766.700 (Ordered Separately)
Alternate Mounting Bracket	Tilt bracket: 766.7015 (0 - 22°) (Ordered Separately)

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

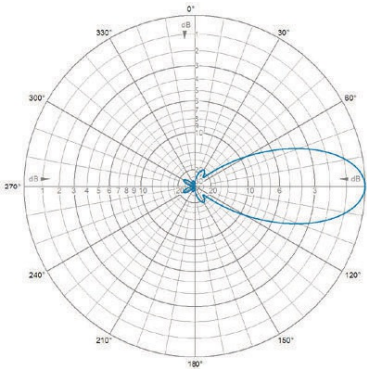
ORDERING

Type	Product No.	Description	Frequency
VPOL panel antenna 120°, 8dBi, 380-470 MHz	760.12.08.00	7/16(f) termination	380 - 470 MHz
VPOL panel antenna 120°, 8dBi, 380-470 MHz	760.12.08.00-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 (small), 0 - 22deg	766.7015		



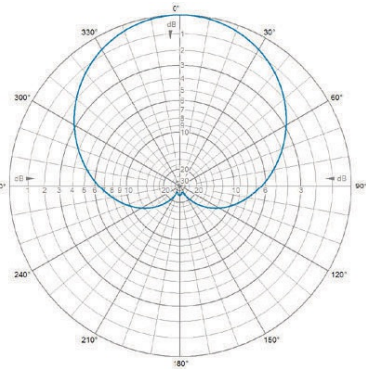
DIAGRAM

RADIATION PATTERNS



E-Plane | 425 MHz

RADIATION PATTERNS



H-Plane | 425 MHz