

XPOL panel antenna 90°, 10dBi, 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
Max. Input Power	2 x 200 W
Polarisation	±45°
3 dB Beamwidth, E-Plane	38° ± 2°
3 dB Beamwidth, H-Plane	90° ± 5°
Impedance	50 Ω
Gain	7.9 dBd (10 dBi)
Port-Port Isolation	≥ 27dB
VSWR	< 1.5:1
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)
Housing Material	Aluminium Alloy, Marine Grade 5083
Radome Material / Colour	White ASA, UV Resistant
Dimensions	920 x 400 x 170 mm
Wind Load	297 N (160km/h)
Weight	7.5 kg / 16.53 lb
Alternate Mounting Bracket	Tilt bracket: 766.7015 (0 - 22°) (Ordered Separately)
Environmental	
Operating Temperature Range	-40 to 75 °C
Survival Wind Speed	300 km/h
Ingress Protection	IP56

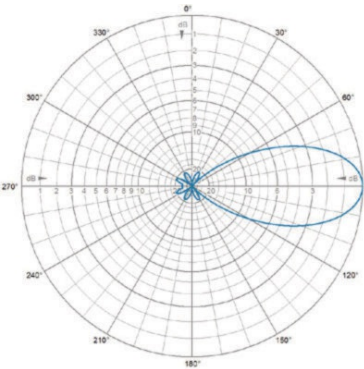
ORDERING

Type	Product No.	Description	Frequency
XPOL panel antenna 90°, 10dBi, 380-470 MHz	766.90.10.00	0° Electrical Tilt	380 - 470 MHz
XPOL panel antenna 90°, 10dBi, 380-470 MHz	766.90.10.15	15° Electrical Tilt	380 - 470 MHz
XPOL panel antenna 90°, 10dBi, 380-470 MHz	766.90.10.00-N	N(f) termination (not PIM specified)	380 - 470 MHz
Bracket kit for 760/766 panel (small), 0 - 22deg	766.7015		



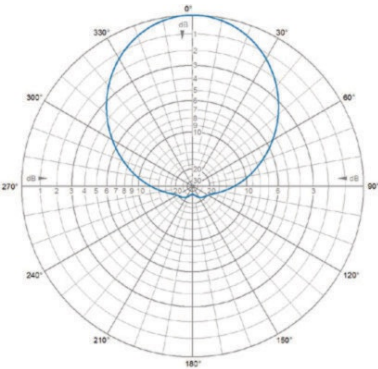
DIAGRAM

RADIATION PATTERNS



E-Plane | 425 MHz

RADIATION PATTERNS



H-Plane | 425 MHz