XPOL panel antenna 90°, 13dBi, 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

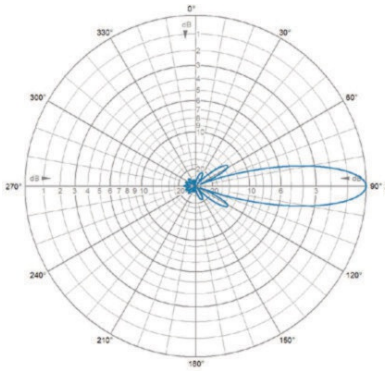
Electrical		
Frequency	380 - 470 MHz	
Max. Input Power	2 x 400 W	2 x 400 W
Polarisation	±45°	
3 dB Beamwidth, E-Plane	17° ± 2°	17° ± 2°
3 dB Beamwidth, H-Plane	90° ± 5°	90° ± 5°
Impedance	50 Ω	
Gain	10.9 dBd (13 dBi)	10.9 dBd (13 dBi)
Port-Port Isolation	≥ 27dB	≥ 27dB
VSWR	< 1.5:1	
Front-To-Back Ratio	> 23 dB	> 23 dB
Cross Polar Discrimination	30 dB	30 dB
Passive Intermodulation	-153dBc (3rd Order, 2 x Tx @ 43dBm)	-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	1840 x 400 x 170 mm	
Wind Load	593 N (160km/h)	593 N (160km/h)
Weight	13 kg / 28.66 lb	13 kg / 28.66 lb
Alternate Mounting Bracket	Tilt bracket: 766.7010 (0 - 12°) 766.7020 (0 - 22°) (Ordered Separately)	

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

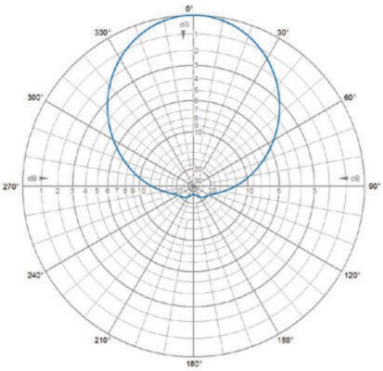
DIAGRAM

RADIATION PATTERNS



E-Plane | 425 MHz

RADIATION PATTERNS



H-Plane | 425 MHz

ORDERING

Model	Product No.	Description	Frequency
XPOL panel antenna 90°, 13dBi, 380-470 MHz	766.90.13.00	0° Electrical Tilt	380 - 470 MHz
XPOL panel antenna 90°, 13dBi, 380-470 MHz	766.90.13.04	4° Electrical Tilt	380 - 470 MHz
XPOL panel antenna 90°, 13dBi, 380-470 MHz	766.90.13.08	8° Electrical Tilt	380 - 470 MHz
XPOL panel antenna 90°, 13dBi, 380-470 MHz	766.90.13.10	10° Electrical Tilt	380 - 470 MHz
XPOL panel antenna 90°, 13dBi, 380-470 MHz	766.90.13.15	15° Electrical Tilt	380 - 470 MHz
XPOL panel antenna 90°, 13dBi, 380-470 MHz	766.90.13.00-N	N(f) termination (not PIM specified)	380 - 470 MHz
Bracket kit for 760/766 panel (large), 0-12dg	766.7010		

PROCOM A/S reserves the right to
amend specifications without prior notice