XPOL panel antenna 65°, 12 dBi, 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	
Model	766.65.12.00
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	68° ± 5°
Impedance	50 Ω
Gain	9.9 dBd (12 dBi)
Port-Port Isolation	≥ 27dB
VSWR	< 1.5:1
Front-To-Back Ratio	> 23 dB
Cross Polar Discrimination	30 dB
Passive Intermodulation	-153 dBc (3rd Order, 2 x Tx @ 43 dBm)
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)

Mechanical	
Connection(s)	2 x 7/16(f) Also available with N(f) or 4.3-10(f)
Housing Material	Aluminium Alloy, Marine Grade 5083
Radome Material / Colour	White ASA, UV Resistant
Dimensions	920 x 400 x 170 mm / 36.22 x 15.75 x 6.69 in.
Wind Load	297 N (160 km/h)
Weight	Approx. 7 kg / 15.43 lb.
Alternate Mounting Bracket	Tilt bracket : 766.7015 (0 - 22°) (Ordered Separately)

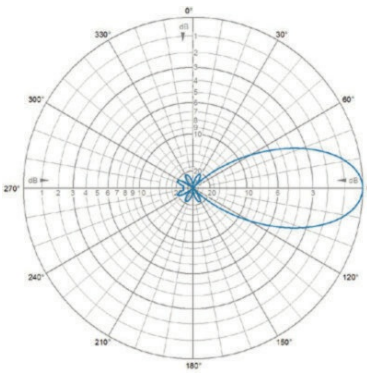
Environmental	
Operating temperature range	-40 °C to +75 °C
Survival Wind Speed	300 km/h
Ingress Protection	IP56

ORDERING

Model	Product No.	Description	Frequency
XPOL panel antenna 65°, 12 dBi	766.65.12.00-7/16(f)	7/16(f) termination	380 - 470 MHz
XPOL panel antenna 65°, 12 dBi	766.65.12.00-N(f)	N(f) termination (not PIM specified)	380 - 470 MHz
XPOL panel antenna 65°, 12 dBi	Contact for availability	4.3-10(f) termination	380 - 470 MHz
Accessories			
Bracket kit for 760/766 panel (no tilt)	766.700		
Bracket kit for 760/766 panel (small), 0 - 22°	766.7015		

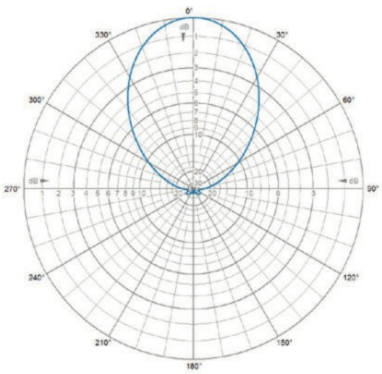
DIAGRAM

RADIATION PATTERNS



E-Plane | 425 MHz

RADIATION PATTERNS



H-Plane | 425 MHz