

Main features

2-Port Antenna	R1
Frequency Range	380-470
HBPW	90
Gain	13
Tilt	0

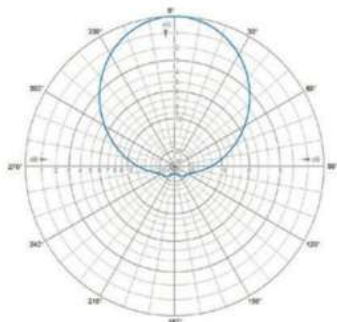
Electrical Specifications

Frequency Range (MHz)	380-470
Polarization	$\pm 45^\circ$
Gain (dBi)	13
Horizontal plane -3dB Beam Width ($^\circ$)	85 ± 8
Vertical plane -3dB Beam Width ($^\circ$)	17 ± 2
Electrical Downtilt ($^\circ$)	0
Front-to-Back Ratio (dB)	≥ 23
Cross Pol Ratio Beam Width (dB)	27
VSWR	$\leq 1.5:1$
Isolation (dB)	≥ 27
Intermodulation IM3 (2x43dBm carrier)	$\leq -153\text{dBc}$
Max. Input Power (W)	2x 400
Peak Instantaneous Power (PIP) (kW)	25
Impedance (Ω)	50
Ground Protection	DC GROUND

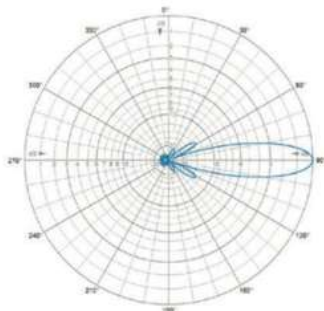
Mechanical Specifications

Connector	2 x 7/16DIN Female
Antenna dimensions (H x W x D) (mm)	1930 x 397 x 170
Packing dimensions (H x W x D) (mm)	2117 x 472 x 232
Mechanical Tilt ($^\circ$)	0-12
Antenna weight (kg)	15.8/19.6 (clamps incl.)
Bracket Diameter (mm)	50-125 mm
Housing material	Aluminium Alloy, Marine Grade 5083
Radome material	Fiberglass
Radome color	Grey
Operational temperature ($^\circ\text{C}$)	-40~ +75
Max. Wind Velocity (km/h)	270
Ingress Protection	IP65

Layout and Pattern

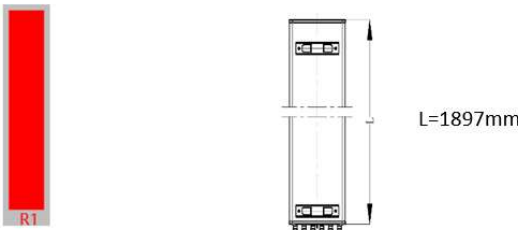


380-470MHz Horizontal Pattern

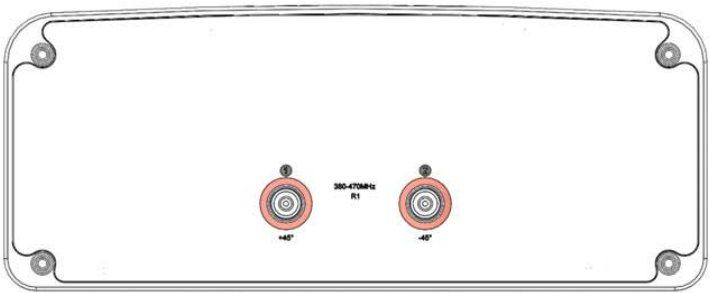


380-470MHz Vertical Pattern

Arrays of the antenna



Ports of the antenna



Installation Sketch

