Outdoor Left or Right Hand Circularly Polarized Patch Antennas for mounting on Wall or Mast

DESCRIPTION

- Low-profile antenna for the 380 - 470 MHz band.
- PCPO xH/TETRA/... is a Left or Right Hand Circularly Polarized patch antenna for outdoor use.
- Circular polarization is chosen to avoid out-of-phase signals.
- Reduces flutter considerably.
- Covers approx. 50 MHz with a radiation of approx. 7 dBic.
- The antennas are carefully sealed with a discrete cover.
- The connector is placed at one side to enable mounting close to a wall.
- Including wall mounting bracket. PATCH-MAMO and PATCH/WAMO to be ordered separately.

SPECIFICATIONS

Electrical	
Model	PCPO xH/TETRA/...
Frequency	380 - 470 MHz covered by two models
Antenna Type	Left or right hand circularly polarized patch antenna
Max. Input Power	100 W
Polarisation	Circular
3 dB Beamwidth, E-Plane	80 °
3 dB Beamwidth, H-Plane	80 °
Impedance	50 Ω
Gain	7 dBic (5 dBd)
VSWR	< 2.0:1
In iBwave	Yes

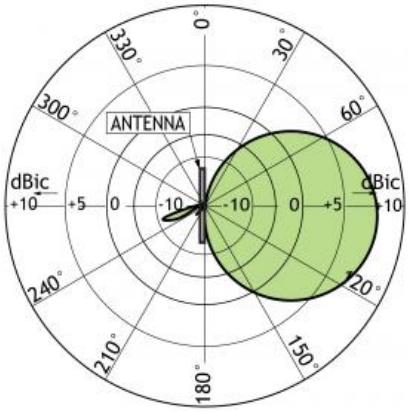
Mechanical	
Connection(s)	N(f)
Materials	Cover: ABS (white) Chassis: Aluminium
Colour	Marine white
Dimensions	Approx. 345 x 345 x 60 mm / 13.58 x 13.58 x 2.36 in.
Wind Load	173 N (160 km/h)
Weight	Approx. 2.3 kg / 5.07 lb.
Mounting	For mounting on wall - 5 mm dia. (three holes) (see mounting details) or mast on 40 - 55 mm / 1.57 x 2.17 in. dia. mast tube.

Environmental	
Operating temperature range	-30 °C to +75 °C
Ingress Protection	IP55. The antenna has drain holes

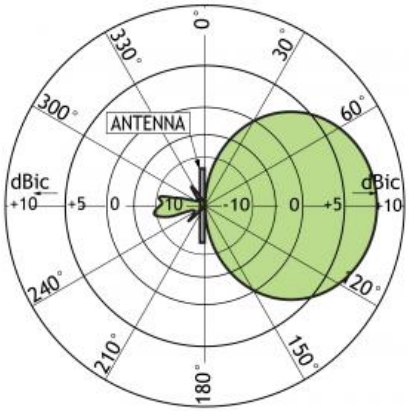
ORDERING

Model	Product No.	Frequency
PCPO RH/TETRA/s-f	100000428	380 - 430 MHz
PCPO LH/TETRA/s-f	100000427	380 - 430 MHz
PCPO RH/TETRA/l-h	100000443	430 - 470 MHz
PCPO LH/TETRA/l-h	100000444	430 - 470 MHz
Accessories		
PATCH-MAMO	100000447	
PATCH-WAMO	100000511	

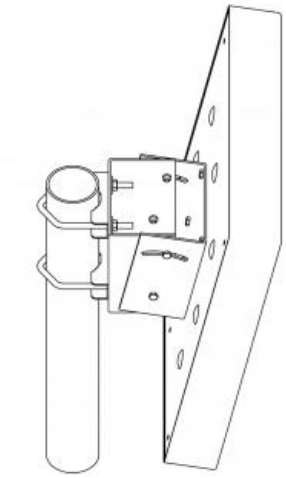
TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)

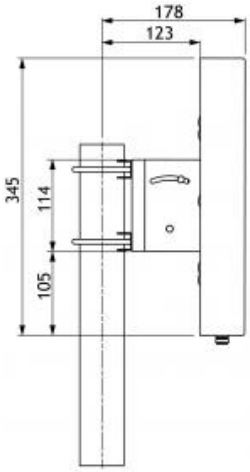


MAST MOUNTING BRACKET : PATCH-MAMO (ORDERED SEPARATELY)

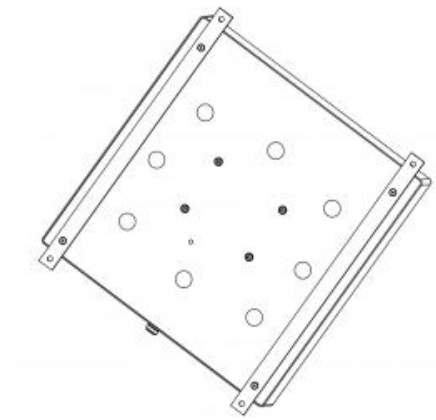
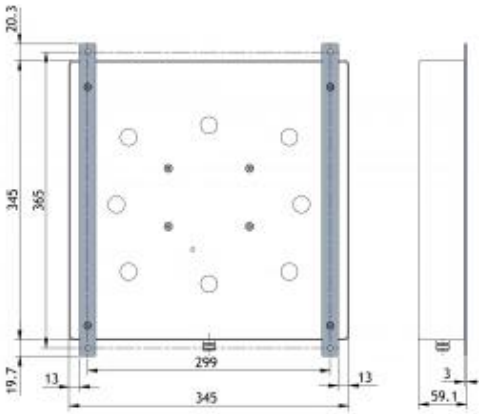


Tilt adjustable from +5˚/-30˚.

MOUNTING DETAILS (PATCH-MAMO)



WALL MOUNTING BRACKET : PATCH-WAMO (ORDERED SEPARATELY)



MOUNTING DETAILS (PATCH-WAMO)