



PCPO xH/TETRA/

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.

SPECIFICATION

Last Update: 07/10/2026 07:09 AM

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

MECHANICAL

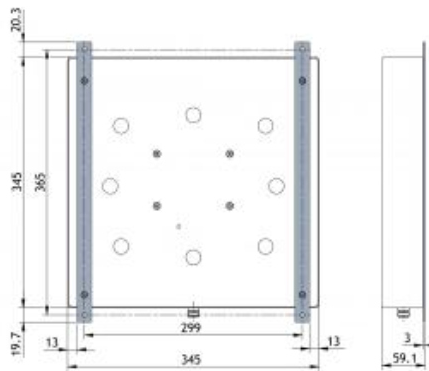
Connection(s)	N(f)
Materials	Cover: ABS (white) Chassis: Aluminium
Colour	Marine white
Historic Brand	Amphenol Procom
Special Feature / Application	In iBwave
Dimensions	Approx. 345 x 345 x 60 mm / 13.58 x 13.58 x 2.36 in.
Wind Load	173 N (160 km/h)
Weight	Approx. 2.3 kg / 5.07 lb.
Mounting	For mounting on wall – 5 mm dia. (three holes) (see mounting details) or mast on 40 – 54 mm / 1.57 – 2.13 in. dia. mast tube.

ORDERING CODES

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/I-h	100000443	430 – 470 MHz
PCPO LH/TETRA/I-h	100000444	430 – 470 MHz

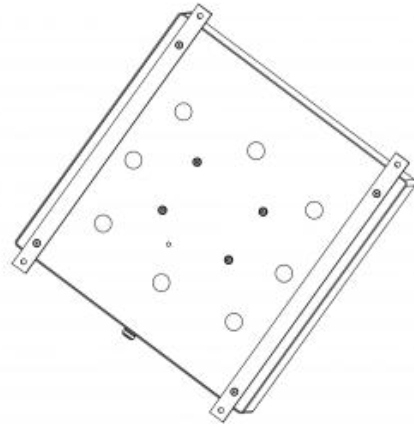
DIAGRAMS

MOUNTING DETAILS (PATCH-WAMO)

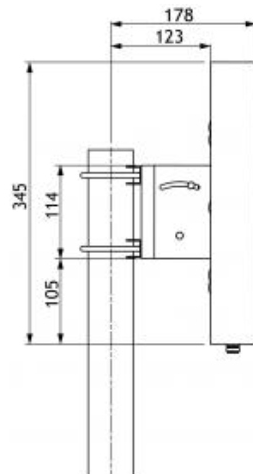


Tilt adjustable from +5°/-30°.

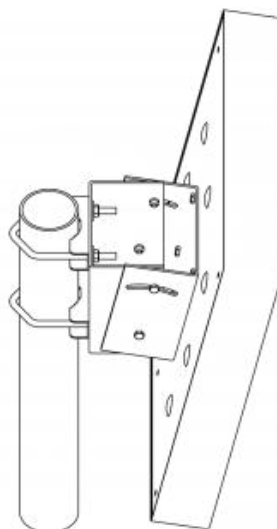
Wall mounting bracket: PATCH-WAMO (ordered separately)



MOUNTING DETAILS (PATCH-MAMO)

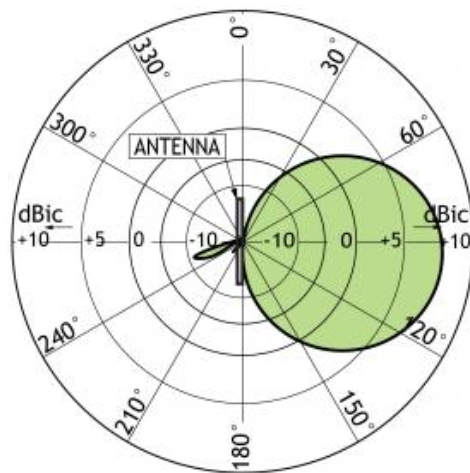


Mast mounting bracket: PATCH-MAMO (ordered separately)



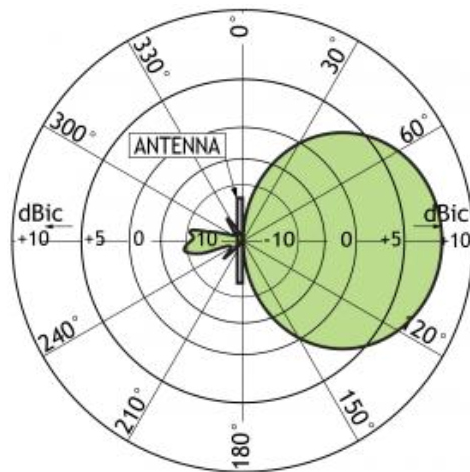
Tilt adjustable from +5°/-30°.

TYPICAL RADIATION PATTERN (E-PLANE)



This curve shows the radiation patterns in the vertical plane.

TYPICAL RADIATION PATTERN (H-PLANE)



This curve shows the radiation patterns in the horizontal plane (horizontal coverage).