

Indoor Left or Right Hand Circularly Polarized Antenna for the 450 MHz and RHCP for 900 MHz Bands

DESCRIPTION

- Dual band indoor base station antenna - one antenna with two bands.
- Low profile antenna for the 450 MHz and 900 MHz bands.
- PCPI 70/900/xHCP/... is a Left or Right Hand Circularly Polarized antenna for indoor use e.g. on ceilings and walls inside ships and houses.
- 900 MHz band is fixed RHCP.
- Circularly polarized antenna is chosen to avoid out-of-phase signals.
- Reduces flutter considerably.
- Specially designed for closed rooms.
- Covers 450 MHz and 900 MHz bands with a radiation of approx. 2 dBic 0 dBd.
- The two built in antennas are combined with a built in diplexer, with low insertion loss, which makes it possible to have only one download cable.
- The antenna is carefully sealed with a discreet cover.
- The antenna is provided with one connector.
- The connector is placed at one side to enable mounting close to a wall or a ceiling.
- Chassis also available in stainless steel PCPI 70R/900/xHCP/... (see ordering designations below).



ORDERING

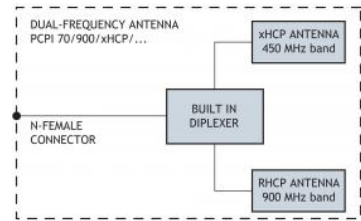
Model	Product No.	Description	Frequency
PCPI 70/900/LHCP/s	100000248	Standard Version / LHCP	380 - 400 MHz
PCPI 70/900/LHCP/f	100000249	Standard Version / LHCP	410 - 430 MHz
PCPI 70/900/LHCP/l	100000250	Standard Version / LHCP	430 - 450 MHz
PCPI 70/900/LHCP/h	100000251	Standard Version / LHCP	450 - 470 MHz
PCPI 70/900/RHCP/s	100000252	Standard Version / RHCP	380 - 400 MHz
PCPI 70/900/RHCP/f	100000253	Standard Version / RHCP	410 - 430 MHz
PCPI 70/900/RHCP/l	100000254	Standard Version / RHCP	430 - 450 MHz
PCPI 70/900/RHCP/h	100000255	Standard Version / RHCP	450 - 470 MHz
PCPI 70R/900/LHCP/s	100000256	Stainless Steel Version / LHCP	380 - 400 MHz
PCPI 70R/900/LHCP/f	100000257	Stainless Steel Version / LHCP	410 - 430 MHz
PCPI 70R/900/LHCP/l	100000258	Stainless Steel Version / LHCP	430 - 450 MHz
PCPI 70R/900/LHCP/h	100000259	Stainless Steel Version / LHCP	450 - 470 MHz
PCPI 70R/900/RHCP/s	100000260	Stainless Steel Version / RHCP	380 - 400 MHz
PCPI 70R/900/RHCP/f	100000261	Stainless Steel Version / RHCP	410 - 430 MHz
PCPI 70R/900/RHCP/l	100000262	Stainless Steel Version / RHCP	430 - 450 MHz
PCPI 70R/900/RHCP/h	100000263	Stainless Steel Version / RHCP	450 - 470 MHz

SPECIFICATIONS

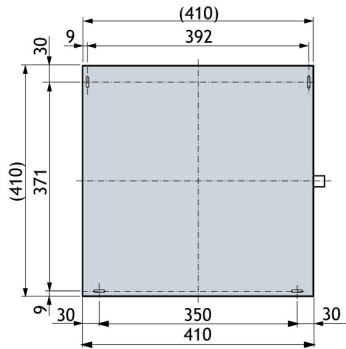
Electrical	
Model	PCPI 70/900/xHCP/...
Frequency	450 MHz freq. to be stated within: 380 - 470 MHz 900 MHz freq. to be stated within: 880 - 960 MHz
Antenna Type	Left or right hand circularly polarized patch antenna
Max. Input Power	35 W
Polarisation	Circular
3 dB Beamwidth, E-Plane	60 °
3 dB Beamwidth, H-Plane	60 °
Impedance	50 Ω
Gain	2 dBic (0 dBd)
Bandwidth	450 MHz: = 20 MHz @ SWR = 2.0:1 900 MHz: = 80 MHz @ SWR = 2.0:1
In iBwave	Yes
Mechanical	
Connection(s)	N(f)
Materials	Cover: PS (white) Chassis: Aluminium
Colour	Marine white
Dimensions	Approx. 415 x 415 x 70 mm
Weight	2.0 kg / 4.41 lb
Mounting	For mounting on wall or ceiling 4.5 mm dia x 20 mm (4 holes)

DIAGRAM

MOUNTING & PATTERN

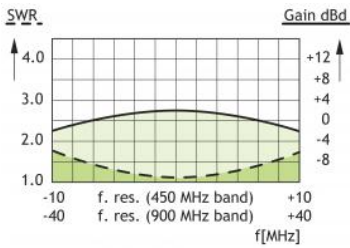


MOUNTING DETAILS

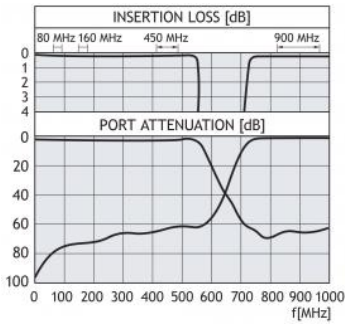


(Dimensions excl. cover)

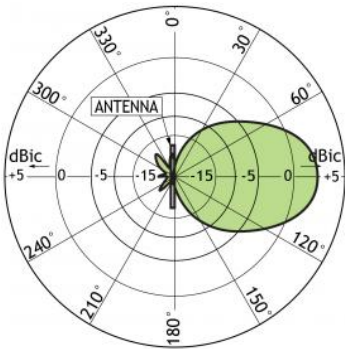
TYPICAL GAIN AND SWR CURVES



BUILT-IN DIPLEXER

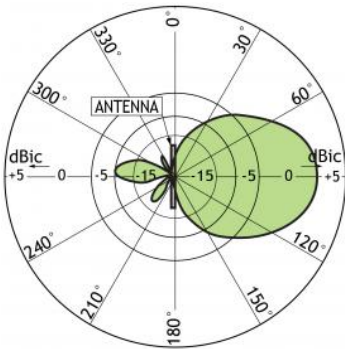


TYPICAL RADIATION PATTERN (E-PLANE)



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.