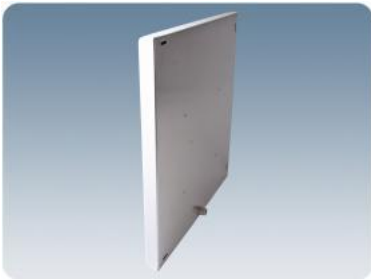


## PCPI 70/xH/

Indoor Left or Right Hand Circularly Polarized Patch Antennas for mounting on Wall or Ceiling

- Low-profile antenna for the 450 MHz band.
- PCPI 70/xH/... is a Left or Right Hand Circularly Polarized patch antenna for indoor use.
- Circularly polarized antenna is chosen to avoid out-of-phase signals.

- Reduces flutter considerably.
- Specially designed for closed rooms.
- Covers approx. 20 MHz with a radiation of approx. 7 dBic 3 dBd.
- Full size  $\frac{1}{2} \lambda$  patch antennas.
- The antennas are carefully sealed with a discrete cover.
- 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/xH/... (see ordering designations below).
- Connection also available on backside (see overleaf).



## ORDERING DESIGNATIONS

### STANDARD VERSION ORDERING DESIGNATIONS

TYPE	PRODUCT NO.	FREQUENCY
PCPI 70/LH/s	100000146	380 - 400 MHz
PCPI 70/LH/f	100000147	410 - 430 MHz
PCPI 70/LH/l	100000148	430 - 450 MHz
PCPI 70/LH/h	100000149	450 - 470 MHz
PCPI 70/RH/s	100000145	380 - 400 MHz
PCPI 70/RH/f	100000143	410 - 430 MHz
PCPI 70/RH/l	100000144	430 - 450 MHz
PCPI 70/RH/h	100000150	450 - 470 MHz

### STAINLESS STEEL VERSION ORDERING DESIGNATIONS

TYPE	PRODUCT NO.	FREQUENCY
PCPI 70R/LH/s	100000302	380 - 400 MHz
PCPI 70R/LH/f	100000303	410 - 430 MHz
PCPI 70R/LH/l	100000304	430 - 450 MHz



PCPI 70R/LH/h	100000305	450 - 470 MHz
PCPI 70R/RH/s	100000306	380 - 400 MHz
PCPI 70R/RH/f	100000151	410 - 430 MHz
PCPI 70R/RH/l	100000307	430 - 450 MHz
PCPI 70R/RH/h	100000152	450 - 470 MHz

## BC VERSION ORDERING DESIGNATIONS

TYPE	PRODUCT NO.	FREQUENCY
PCPI 70/LH/s-BC	100000337	380 - 400 MHz
PCPI 70/LH/f-BC	100000338	410 - 430 MHz
PCPI 70/LH/l-BC	100000339	430 - 450 MHz
PCPI 70/LH/h-BC	100000340	450 - 470 MHz
PCPI 70/RH/s-BC	100000333	380 - 400 MHz
PCPI 70/RH/f-BC	100000334	410 - 430 MHz
PCPI 70/RH/l-BC	100000335	430 - 450 MHz
PCPI 70/RH/h-BC	100000336	450 - 470 MHz

## SPECIFICATIONS

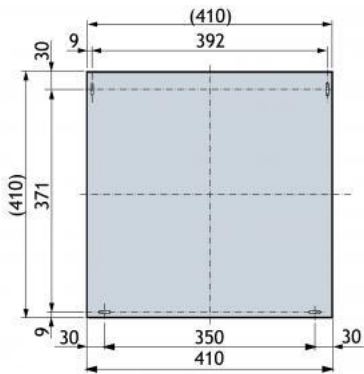
ELECTRICAL	
MODEL	PCPI 70/xH/...
ANTENNA TYPE	Left or right hand circularly polarized patch antenna
FREQUENCY	380 - 470 MHz covered by four models
IMPEDANCE	Nom. 50 Ω
POLARIZATION	Circular
GAIN	Approx. 7 dBic 3 dBd
BANDWIDTH	≥ 20 MHz @ SWR ≤ 1.8
HALF POWER BEAMWIDTH	Approx. 80° (H- and E-plane)
SWR	≤ 1.5 f.res.
MAX. POWER	100 W
MECHANICAL	
TEMP. RANGE	-30°C → +75°C
CONNECTOR	N-female
COLOUR	Marine white
MATERIALS	Cover: PS (white)



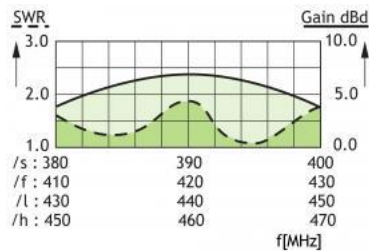
	Chassis: Aluminium
SIZE (L x W x H)	Approx. 415 x 415 x 25 mm
WEIGHT	Approx. 1.8 kg
MOUNTING	For mounting on wall or ceiling ø4.5 x 20 mm (four holes)

## MOUNTING & PATTERN

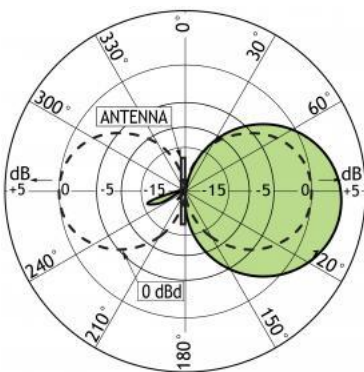
### MOUNTING DETAILS (Dimensions excl. cover)



### TYPICAL GAIN AND SWR CURVES



### 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).