

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

BESCHREIBUNG

- 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 (5 dBi in each E- and H-plane).
- Full size ½ λ 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 BESTELLUNG designations).
- Connection also available on backside (see overleaf).



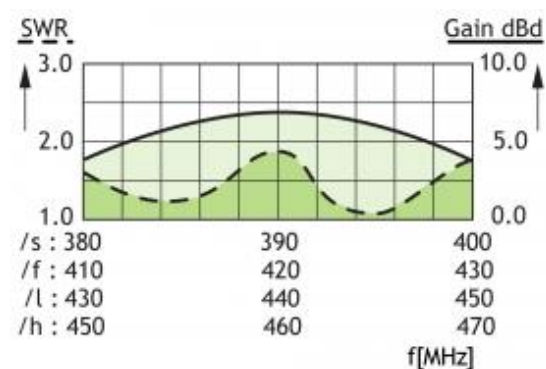
SPEZIFIKATIONEN

| Elektrisch DE                   |                                                                 |
|---------------------------------|-----------------------------------------------------------------|
| Modell                          | PCPI 70/xH/...                                                  |
| Frequenz                        | 380 - 470 MHz covered by four models                            |
| Antennentyp                     | Left or right hand circularly polarized patch antenna           |
| Max. Eingangsleistung           | 100 W                                                           |
| Polarisation                    | Zirkular                                                        |
| Öffnungswinkel 3 dB, vertikal   | 80 °                                                            |
| Öffnungswinkel 3 dB, horizontal | 80 °                                                            |
| Impedanz                        | 50 Ω                                                            |
| Gewinn                          | 7 dBic (5 dBi)                                                  |
| In iBwave                       | Ja                                                              |
| Mechanisch DE                   |                                                                 |
| Anschlusstyp                    | N(f)                                                            |
| Materialien                     | Cover : PS (white)<br>Chassis : Aluminium                       |
| Farbe                           | Marine white                                                    |
| Abmessungen                     | ca. 415 x 415 x 25 mm                                           |
| Gewicht                         | ca. 1.8 kg                                                      |
| Montage                         | For mounting on wall or ceiling 4.5 mm<br>dia x 20 mm (4 holes) |
| Umwelt                          |                                                                 |
| Betriebstemperaturbereich       | -30 °C to +75 °C                                                |
| Lagertemperaturbereich          | -40 °C to +75 °C                                                |
| Feuchtigkeit                    | < 90% non-condensing                                            |
| IP Schutzklasse                 | IP55                                                            |

BESTELLUNG

| Modell                  | Produkt Nr | Frequenz      |
|-------------------------|------------|---------------|
| Standard version        |            |               |
| 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 |            |               |
| 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              |            |               |
| 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 |

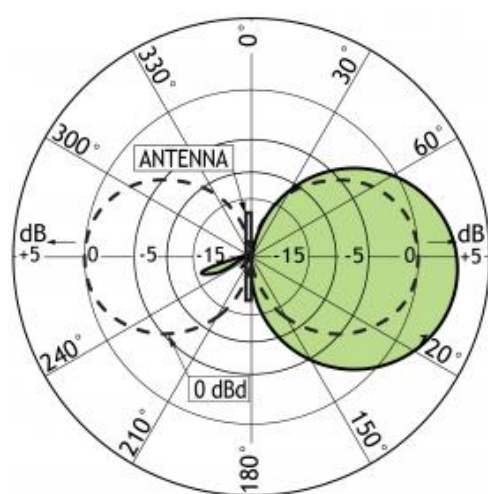
## TYPICAL GAIN AND VSWR CURVES



## CONNECTION ON BACKSIDE

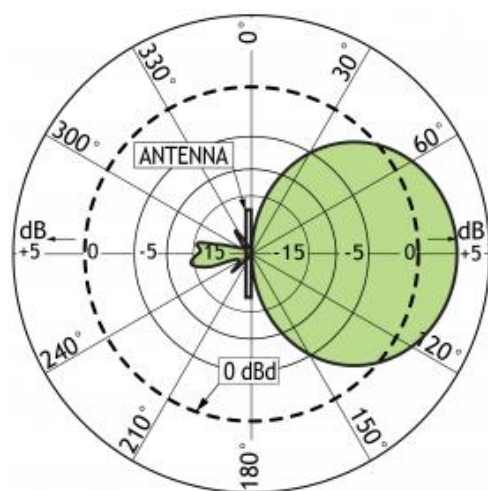


## ADDITIONAL DATATYPICAL RADIATION PATTERN (E-PLANE)



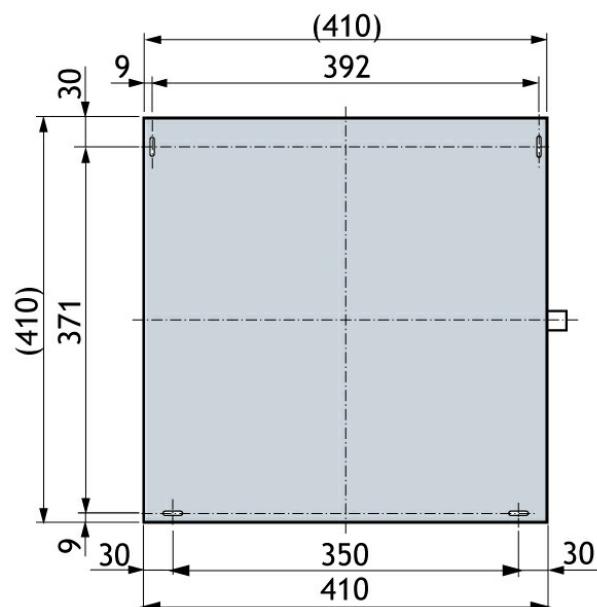
This curve shows the radiation patterns in the vertical plane.

## TYPICAL RADIATION PATTERN (H-PLANE)



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

## MOUNTING DETAILS (DIMENSIONS EXCL. COVER)



All dimensions are given in mm.