

PCPI 70/900/1800/PCS/UMTS/R/...

Indoor Right Hand Circular Polarized Antenna for the 450 MHz, GSM, DCS, PCS and UMTS Bands

DESCRIPTION

- 5-band indoor base station antenna - one antenna with five bands.
- Right hand circular polarized, 7 dBic antenna specially designed for closed rooms. For use e.g. on ceilings and walls inside ships and buildings.
- Circular polarization is chosen to improve link quality.
- Built-in diplexers with low insertion loss make it possible to have only one connector.



ORDERING DESIGNATIONS

TYPE	PRODUCT NO.	FREQUENCY
PCPI 70/900/1800/PCS/UMTS/R/s	100000391	380 - 400 MHz
PCPI 70/900/1800/PCS/UMTS/R/f	100000392	410 - 430 MHz
PCPI 70/900/1800/PCS/UMTS/R/l	100000393	430 - 450 MHz
PCPI 70/900/1800/PCS/UMTS/R/h	100000394	450 - 470 MHz

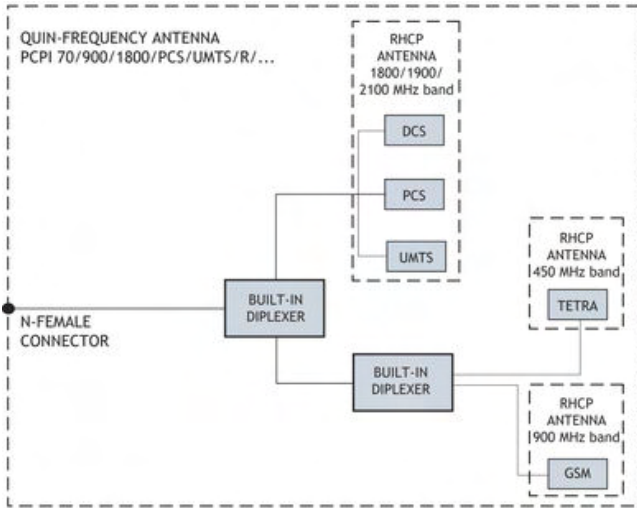
SPECIFICATIONS

ELECTRICAL	
MODEL	PCPI 70/900/1800/PCS/UMTS/R/...
ANTENNA TYPE	Right hand circular polarized 5-band antenna
FREQUENCY	450 MHz: 380 - 470 MHz GSM: 880 - 960 MHz DCS: 1710 - 1880 MHz PCS: 1850 - 1990 MHz UMTS: 1910 - 2200 MHz
IMPEDANCE	Nom. 50 Ω
POLARIZATION	Circular (right hand)
GAIN	Approx. 7 dBic
BANDWIDTH	450 MHz: ≥ 20 MHz @ SWR ≤ 2.0 GSM: ≥ 80 MHz @ SWR ≤ 2.0 DCS: ≥ 170 MHz @ SWR ≤ 3.0 PCS: ≥ 140 MHz @ SWR ≤ 3.0 UMTS: ≥ 290 MHz @ SWR ≤ 3.0
HALF POWER BEAMWIDTH	Approx. 60° (H- and E-plane)
SWR	≤ 1.5 f.res.
MAX. POWER	25 W
MECHANICAL	
CONNECTOR	N-female
COLOUR	Marine white
MATERIALS	Cover: PS (white) Chassis: Aluminium
SIZE (L x W x H)	Approx. 415 x 415 x 70 mm
WEIGHT	Approx. 2 kg
MOUNTING	∅ 4.5 mm (4 holes)

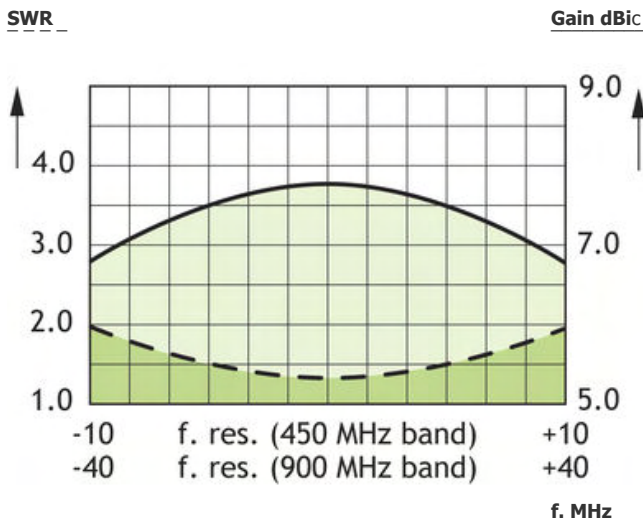
SPECIFICATIONS DIPLEXER

ELECTRICAL FOR BUILT-IN DIPLEXER DIPX 500/800	
FREQUENCY	Low port : 0 - 500 MHz High port : 800 - 1300 MHz
MAX. INPUT POWER	35 W each port
INSERTION LOSS	0 - 500 MHz : ≤ 0.5 dB 800 - 1300 MHz : ≤ 0.5 dB
ISOLATION	Low to high port : ≥ 45 dB

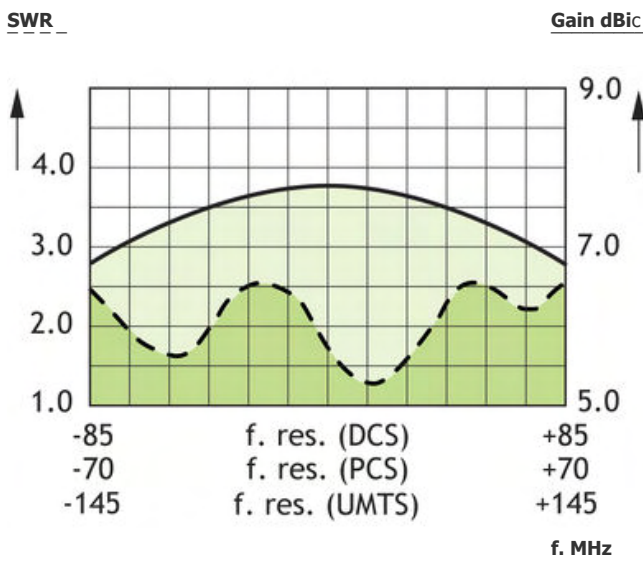
ELECTRICAL FOR BUILT-IN DIPLEXER DIPX 1000/1550	
FREQUENCY	Low port : 0 - 1000 MHz High port : 1550 - 2500 MHz
MAX. INPUT POWER	35 W each port
INSERTION LOSS	0 - 1000 MHz : ≤ 0.5 dB 1550 - 2500 MHz : ≤ 0.5 dB
ISOLATION	Low to high port : ≥ 45 dB



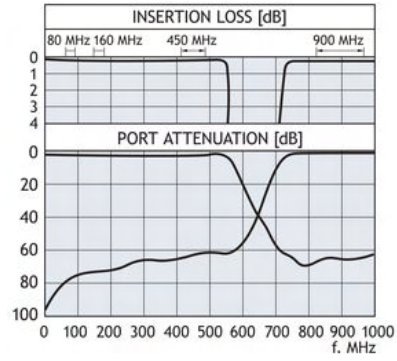
TYPICAL GAIN AND SWR CURVES



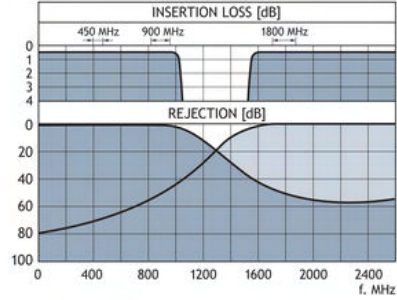
TYPICAL GAIN AND SWR CURVES



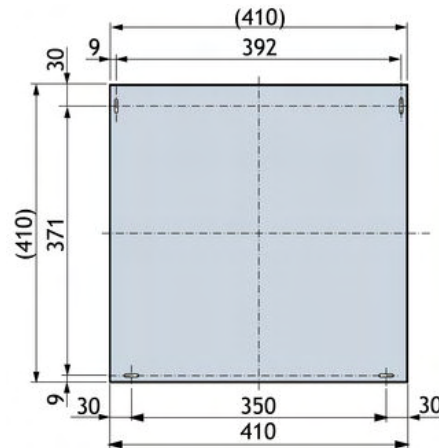
BUILT-IN DIPLEXER



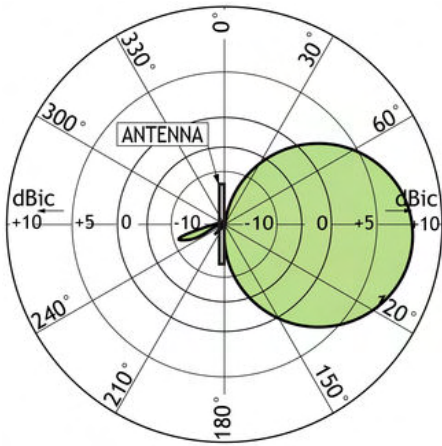
BUILT-IN DIPLEXER



MOUNTING DETAILS

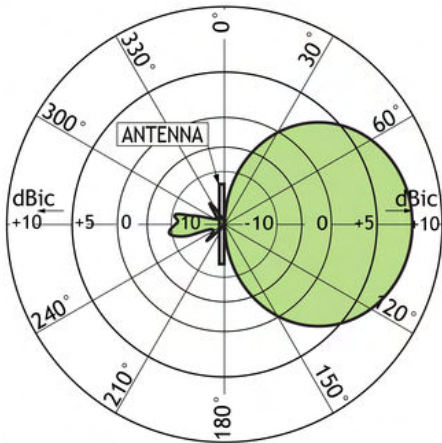


TYPICAL RADIATION PATTERN (E-PLANE)



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).



PROCOM A/S reserve the right to amend specifications without prior notice.

12/01/2011