

# **RFCPL6000**

Wideband RF Sniffer Coupler DC ... 12 GHz

## **Features**

- emulates radio field loss in main path
- up to +35 dBm RF input power (main path)
- 70 dB bi-directional coupling to monitoring port
- compact size

## Applications

- sniffing bi-directional communication RF communication monitoring between access points



## At a Glance

RFCPL6000 from Becker Nachrichtentechnik is a wideband sniffer coupler for monitoring bidirectional RF links in the frequency range up to more than 12 GHz. It is housed in a compact module.

With help of the RFCPL6000 cable-based communication between two access points can be monitored without the influence of other radio signals. It also emulates a RF radio field attenuation between access points. The maximum input power allows a direct connection of the two access points to the Wideband RF Sniffer Coupler module. The monitoring port has a coupling loss of approx. 70 dB to the main inputs A and B.

The RFCPL6000 is housed in a milling cover to avoid influences with radio signals from the environment. This ensures reproduceable test scenarios in a wired setup.

## **Principal Block Diagram**



RF\_A and RF\_B are RF ports with high power capability for a direct connection of e.g., access points. The attenuation between RF\_A and RF\_B emulates a radio field attenuation. The communication between RF\_A and RF\_B can be monitored via the RF\_MON port.

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Subject to change in specification and design without notice. released version 1.00 - October 2021



## **RF Specification**

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
impedance	ZIN/ZOUT		50		Ohm	
low frequency	fмin			DC		
high frequency	<b>f</b> MAX	6	12		GHz	
main loss	S <sub>21</sub> , S <sub>12</sub>		-40		dB	
main path return loss	S11, S22		-15		dB	
monitoring coupling	S <sub>31</sub> , S <sub>32</sub>		-70		dB	to ports RF_A / RF_B
monitoring port return	S <sub>33</sub>		-15		dB	
loss						
RF power	PRFAB			+35	dBm	ports RF_A / RF_B
RF power	PRFMON			0	dBm	RF_MON port
DC voltage	U <sub>DC</sub>			0	V	all ports
RF connectors		SI	MA femal	е		

## **Common Specification**

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
dimensions	W×H×D	approx. 53 x 19 x 57			mm	
weight	m		100		g	
operating temp. range	Тамв	5		+70	°C	module surface
storage temp. range	Ts	-40		+70	°C	
ordering information	RFCPL6000			2107.4001.1		

## **S-Parameters**





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Quality Made in Germany

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RoHS compliant in accordance with EU Directive 2015/863



Dimensions



## Appearance

