

Receive Unit

Down Frequency Converter

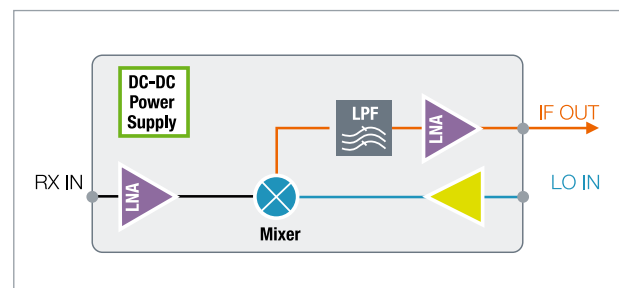


The Receive (RX) Unit is a simplified version of the Transmit and Receive Unit. These units allow only down frequency conversion and thus represent a cost-effective solution for antenna measurement systems. Receive Units offer the option to include a Low Noise Amplifier (LNA) to gain the received signals.

Main features

- Frequency range: 0.5-50 GHz
- Supports receive mode only
- Simple and cost-effective RF front end for antenna measurement
- Stable VSWR towards the AUT or probe/feed
- Complimentary to Transmit and Receive RF unit from Probe/Feed and AUT sides

Functional Block Diagram



Specifications

EXAMPLE MODEL	OFR-RX00520-X	OFR-RX00540-X	OFR-RX00550-X
Type	Rx module, 0.5-20 GHz	Rx module, 0.5-40 GHz	Rx module, 0.5-50 GHz
Input LO Frequency	0.5-20 GHz	0.5-20 GHz	0.5-20 GHz
Output IF Frequency	0.5-700 MHz	0.5-700 MHz	0.5-700 MHz
Input LO power	-13 dBm max	-13 dBm max	-13 dBm max
Mixer Conversion Loss	10 dB typical	<ul style="list-style-type: none"> • 0.5-20 GHz: 10 dB typical • 20-50 GHz: 22 dB typical 	<ul style="list-style-type: none"> • 0.5-20 GHz: 10 dB typical • 20-50 GHz: 22 dB typical
Connectors	RX IN: SMA (F) LO IN and IF OUT: SMA (F)	RX IN: 2.92mm (F) LO IN and IF OUT: SMA (F)	RX IN: 2.4 mm (F) LO IN and IF OUT: SMA (F)
Power Supply	24 V DC, 0.7 A max	24 V DC, 0.7 A max	24 V DC, 0.7 A max

Model index for receive units

PART NUMBER	FREQUENCY BAND	DESCRIPTION
OFR-RX00520-1	0.5-20 GHz	Receive unit with LNA
OFR-RX00520-2	0.5-20 GHz	Receive unit without LNA
OFR-RX00540-1	0.5-40 GHz	Receive unit with LNA
OFR-RX00540-2	0.5-40 GHz	Receive unit without LNA
OFR-RX00550-1	0.5-50 GHz	Receive unit with LNA
OFR-RX00550-2	0.5-50 GHz	Receive unit without LNA



Contact your local sales representative for more information
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