

RF Amplifier Unit

A Wideband, Low-noise RF Amplifier

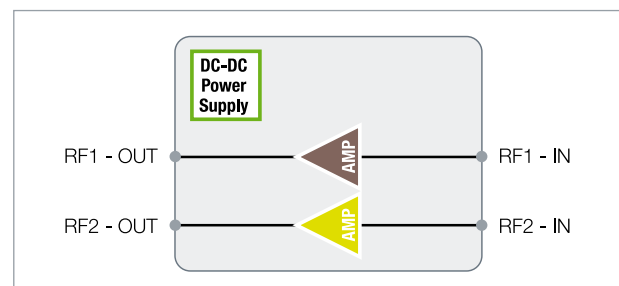


RF amplifiers are used to gain low-level RF signals, typically for compensating losses in RF cables.

Main features

- Frequency range: 0.05-50 GHz
- Unconditionally stable
- Good matching at input and output
- High level of 1 dB compression point output, typically +20 dBm
- High isolation, typically 75 dB
- Robust, compact case with heat sink

Functional Block Diagram



Specifications

EXAMPLE MODEL	OFR-RFAMP-D20-1	OFR-RFAMP-D40-1	OFR-RFAMP-S50-1
Type	Dual amplifier, 0.25-20 GHz	Dual amplifier, 0.5-40 GHz	Single amplifier, 0.5-50 GHz
Operation Frequencies	0.25-20 GHz	0.5-40 GHz	0.5-50 GHz
Amplifier Gain	26.5 dB \pm 1.5 dB typical (flatness)	42 dB \pm 2.5 dB typical (flatness)	33 dB \pm 3 dB typical (flatness)
Noise Figure	3.5 dB typical	4.0 dB typical	<ul style="list-style-type: none"> • 0.5-20 GHz – 7 dB typical • 20-40 GHz – 4.5 dB typical • 40-50 GHz – 6.5 dB typical
VSWR	1.7:1 typical	2:1 typical	2.2:1 typical
Connectors	SMA (F)	2.92 mm (F)	2.4 mm (F)
Power Supply	24 V DC, 1 A max	24 V DC, 1.3 A max	24 V DC, 500 mA max

Model index for RF amplifier units

PART NUMBER	FREQUENCY BAND	DESCRIPTION
OFR-RFAMP-D6-1	0.05-6 GHz	RF Amplifier, Double 0.05-6 GHz
OFR-RFAMP-S6-1	0.05-6 GHz	RF Amplifier, Single 0.05-6 GHz
OFR-RFAMP-D20-1	0.25-20 GHz	RF Amplifier, Double 0.25-20 GHz
OFR-RFAMP-S20-1	0.25-20 GHz	RF Amplifier, Single 0.25-20 GHz
OFR-RFAMP-D40-1	0.5-40 GHz	RF Amplifier, Double 0.5-40 GHz
OFR-RFAMP-S40-1	0.5-40 GHz	RF Amplifier, Single 0.5-40 GHz
OFR-RFAMP-D50-1	0.5-50 GHz	RF Amplifier, Double 0.5-50 GHz
OFR-RFAMP-S50-1	0.5-50 GHz	RF Amplifier, Single 0.5-50 GHz



Contact your local sales representative for more information
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