

ConvertaWave™ RF Downconverter



225 - 500 MHz RF Input 70 MHz IF Output

P/N: RF225-500DCV1

The ConvertaWave[™] is a robust RF downconverter, providing high dynamic range performance over the 225 to 500 MHz frequency range. The 70 MHz IF output is band-limited to ~500 kHz.

The ConvertaWave downconverter provides superior rejection of out-of-band signals, Automatic Gain Control / Manual Gain Control (AGC/MGC) operation, and operates over VHF and UHF frequencies in 100 kHz steps. The ConvertaWave has extremely low noise figure and user-selectable features.

The ConvertaWave has over 100 dB of manual gain control, inclusive of an automatic gain control (AGC) mode. Boasting a system noise figure under 5 dB and a local oscillator (LO) with extremely low phase noise, the ConvertaWave is well suited for industrial, commercial, and military applications.

Features

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- 225 to 500 MHz
- Small Form Factor
- High Intercept Point
- Low Phase Noise
- 70 MHz IF Output
- 100 kHz Tuning Resolution
- Manual and Automatic Gain Control (MGC / AGC)
- 50 dB RF Attenuation
- 50 dB IF Attenuation
- Excellent Out-of-Band Rejection
- Wide Supply Voltage Range
- Simple RS-232 Interface

Applications

- RF Signal Receivers
- RF Front-End for Tactical Receivers
- Software Defined Radios (SDR)
- Test Bed Developments
- Programmable RF Frequency Conversion
- Waveform Receivers

ConvertaWave™RF Downconverter

Specifications

Operational

200 MHz to 500 MHz
70 MHz
500 KHz
80 dB (typ)
76 dB (typ)
100 kHz
5 dB (max)
+10 to +18 VDC (+12 VDC Nominal)
220 mA @ +12 VDC (typ)
RS-232
9 pin Micro-D (Socket)
SMA (Female)

Mechanical

Size	6.50" x 4.00" x 0.75" (L x W x H)
Weight	11.3 оz.

Environmental

Operating Temperature	-20 to +50 °C
Storage Temperature	-40 to +85 °C

Export

Classification	ITAR Controlled
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For information on product disposal (end-of-life), please refer to this document: https://nuwaves.com/wp-content/uploads/Product-Disposal-End-of-Life.pdf

Contact NuWaves



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