

ConvertaWave™ RF Downconverter



RF22-52DCV1 RF DOWNCONVERTER

FEATURES

- Small form factor (6.5" x 4.0" x 0.75")
- Simple interface controls
- DC Power 9-16 VDC
- Wide input RF frequencies
- Processor Controlled Frequency Selection
- 50 dB of RF Attenuation Control
- 50 dB of IF Attenuation Control
- High Intercept point
- SMA connectors IN/OUT
- Narrow IF Bandwidth
- Additional IF Bandwidths Available
- Large dynamic IF range
- Manual and automatic AGC
- 70 MHz IF output
- Low Phase Noise
- RS-232 Interface
- Excellent Out of Band Rejection
- < 5 dB System Noise Figure

If you have other requirements, NuWaves provides state-of-the-art RF design services to customize products to your needs.



High Dynamic Range Receiver/RF Tuner/Downconverter

DESCRIPTION

The **ConvertaWave™ (Model #RF22-52DCV1)** is a robust multi-functional downconverter for use in commercial, industrial, and military applications. Tuning over portions of the VHF and UHF frequency bands, the receiver produces a filtered output IF frequency of 70 MHz. The downconverter has >100 dB of total attenuation control, in 1 dB increments. The downconverter is designed with good input-output VSWR, high intercept point, low spurious emissions, and low LO phase noise. The operating temperature range is from -20° to +50° C.

These rich features cover the design requirements for most applications. Custom designs (form factors, RF frequencies, IF bandwidths, IF frequencies, and other attributes) are available.

A development kit, including the hardware, cable assemblies, and a graphical users interface is available. The development kit provides an intuitive user interface to set many parameters such as the LO frequency, attenuators, and much more.

For additional information contact NuWaves by email at product.sales@nuwaves-ltd.com or by phone at 513-360-0800.

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