New - HILNA™ CF

Custom Filter High Intercept Low Noise Amplifier

NuWaves

RF & Wireless Engineering

APPLICATIONS

- Low Noise Applications
- Filters out unwanted VHF, UHF, Cellular, GPS and other interfering signals
- High Performance Receivers
- LNA for Cellular Base Stations
- General Purpose Amplification
- Amplification for Long Cable Runs
- RF Repeater
- Various Military Radio & Communication Applications
- Broadband or Narrowband Gain Block
- Industrial Scientific Medical Band Applications

FEATURES AND HIGHLIGHTS

- User Definable Custom Filters
- Extremely low noise and high gain
- No Custom Amplifier Required
- High Intercept Point
- Wide Dynamic Range
- Rugged Outside Casing
- Wide Operational Voltage Range
- Low Cost
- Multi-Octave Frequency Buffer
- Internal Regulator/ Active Bias

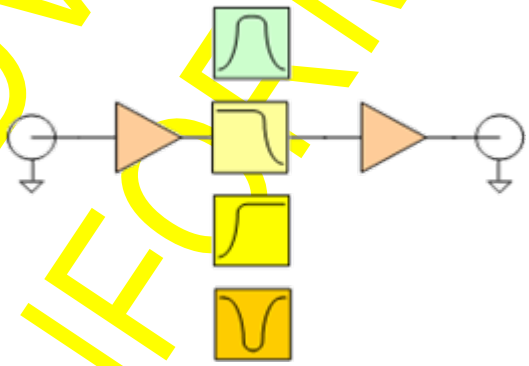
HILNA™ CF DESCRIPTION

The **New HILNA™ CF** is designed to allow end users the ability to select their own unique custom filter (low, high, bandpass and band reject) for this unique low noise, high gain, high linearity and broadband amplifier.

Options: Other Bandwidths (V2,V3)
Custom Filter Solutions Available: (Lowpass, Highpass, Bandpass and Band Reject)

This state-of-the-art custom amplifier is custom designed to the end user's application, with the ability to reject interfering signals across a selected frequency bandwidths.

HILNA™ CF AMPLIFIER CHARACTERISTICS



Amplifier with Filtering Configurations:

- **Bandpass**
- **Highpass**
- **Low Pass**
- **Band Reject**

Frequency	50 -1000 MHz (useable to 1500 MHz)
Gain	42 dB Typical
Noise Figure	0.8 dB Typical
OIP3	+32 dBm Typical
P1dB	+18 dBm Typical
Reverse Isolation	-55 dB Typical
Current	140 mA Typical
Operating Voltage	+5 to +20 VDC
VSWR	1.3:1 (In), 1.5:1 (Out) Typical (50 Ω)

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Rev 102606