

# HILNA™ CF

## Custom Filter High Intercept Low Noise Amplifier



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

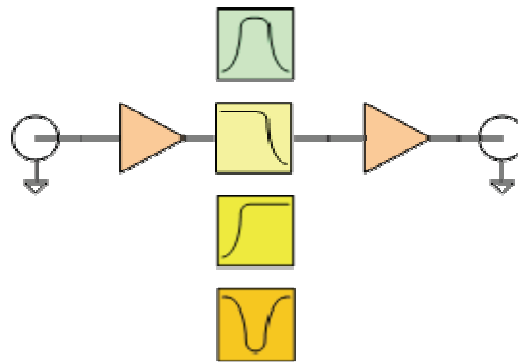
The **New HILNA™ CF** is designed to allow end users the ability to select their own unique custom filter (low-pass, high-pass, band-pass and band reject) for this unique low noise, high gain, high linearity and broadband amplifier.



**Custom Filter Solutions Available:** (Low-Pass, High-Pass, Band-Pass 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:

- **Band-Pass**
- **High-Pass**
- **Low-Pass**
- **Band-Reject**

Frequency	50 -1000 MHz (Filter Selection Dependent)
Gain	40 dB Typical (Mid-Band Filter Dependent)
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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