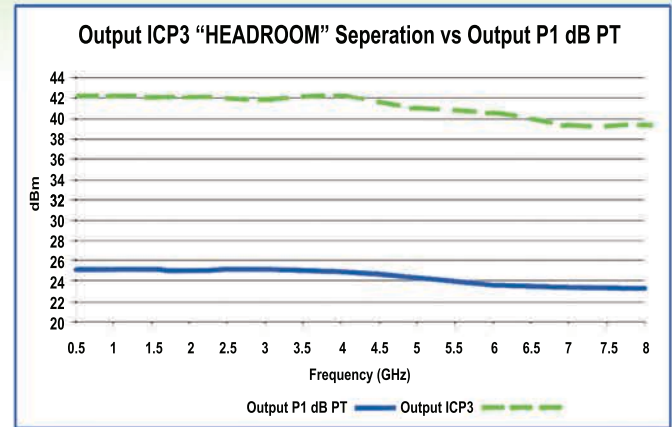


High Linearity LNA's

Feature 16-17 dB of "Headroom" Between P1 dB & Output ICP3

- **Ultra-High Linearity Performance**
- **ICP3's as high as +45 dBm**
(500 mHz BW's / 0.225 - 12.0 GHz)
- **Low Power Consumption & Compact Size**
- **Low Noise Figure & Flat Gain Performance**
- **Custom models offered**
- **Internal Voltage Regulator & Reverse Polarity Protection**
- **Options: Gain & Phase Matching/Tracking, BITE, TTL/RF Mute, Input Limiter Protection, Variable Gain Control and More**
- **Competitively priced / Fast delivery for both Catalog & "Custom-Catalog" units**



The Ciao Wireless High Linearity LNA's eclipse the industry accepted standard "10-dB separation rule" ("headroom") for Output ICP3 separation above the 1-dB Compression Point. Ciao Wireless' Ultra-High Linearity LNA's feature an extended headroom of typically 16 to 17 dB between the 1-dB Compression Point and Output 3rd Order ICP. Typical Output 3rd Order ICP values range up to +42 dBm for Octave Band Models with an Output P1-dB Point of +22 to +25 dBm.

This series of amplifiers combine ultra-high linearity performance with noise figures as low as 1.8 dB and very flat gain. Each part is integrated in a compact sealed housing, and made for use in radar, phased-array, WLAN/WiFi and ECM/EW applications. Every Ciao Wireless manufactured product is designed for high reliability and long-term field operation in all Military and Commercial environments. Ciao Wireless can easily "customize" any of its standard models to meet most special requirements and usually at the same competitive catalog pricing and delivery times.

| Model Number | Frequency (GHz) | Gain (dB MIN) | Gain Flatness (dB) | Noise Figure (dB - MAX/TYP) | Output Power(dBm) (MIN @ P1 dB Comp PT) | 3rd Order ICP (dBm MIN/TYP) | VSWR: (MAX) | DC Power @ +12 to +15VDC (TYP) |
|--------------|-----------------|---------------|--------------------|-----------------------------|---|-----------------------------|-------------|--------------------------------|
| CA02-3016 | 0.5 - 2.0 | 30 | +/- 1.0 | 5.5 / 4.8 | +24 | +40 / +42 | 2.0:1 | 370 mA |
| CA02-4016 | 0.5 - 2.0 | 40 | +/- 1.0 | 2.2 / 1.9 | +24 | +40 / +42 | 2.0:1 | 400 mA |
| CA02-4017 | 0.5 - 2.0 | 45 | +/- 1.0 | 2.2 / 1.9 | +24 | +40 / +42 | 2.0:1 | 425 mA |
| CA24-3016 | 2.0 - 4.0 | 30 | +/- 1.0 | 4.4 / 3.8 | +24 | +40 / +42 | 2.0:1 | 380 mA |
| CA24-4016 | 2.0 - 4.0 | 40 | +/- 1.0 | 2.4 / 1.9 | +24 | +40 / +42 | 2.0:1 | 430 mA |
| CA24-4017 | 2.0 - 4.0 | 45 | +/- 1.0 | 2.4 / 1.9 | +24 | +40 / +42 | 2.0:1 | 450 mA |
| CA48-3016 | 4.0 - 8.0 | 30 | +/- 1.5 | 2.7 / 2.2 | +22 | +38 / +40 | 2.0:1 | 480 mA |
| CA48-3017 | 4.0 - 8.0 | 35 | +/- 1.5 | 2.7 / 2.2 | +22 | +38 / +40 | 2.0:1 | 515 mA |
| CA48-4016 | 4.0 - 8.0 | 40 | +/- 1.5 | 2.5 / 2.2 | +22 | +38 / +40 | 2.0:1 | 530 mA |
| CA48-4017 | 4.0 - 8.0 | 45 | +/- 1.5 | 2.2 / 1.7 | +22 | +38 / +40 | 2.0:1 | 540 mA |



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Delivery Stock to 2 Weeks ARO