

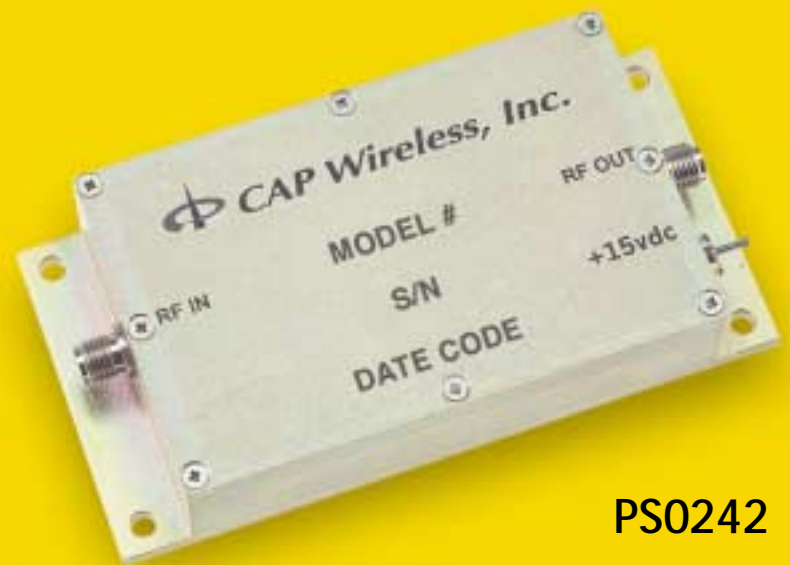
LOW NOISE AMPLIFIER

Features

- Low noise
- High intercept point
- Balanced design
- Internal regulator/Active bias
- Unconditionally stable

Options

- Other bandwidths
- Gain levels
- Higher Ip3



PS0242

Description

Designed for front end performance in the cellular band, this family of amplifiers utilizes GaAs FET devices to achieve low noise and high third order intercept point. The balanced front end ensures low noise figure and a good match, making these units ideal for use in base stations, repeaters and bidirectional amplifiers.



 **CAP Wireless, Inc**

Model	PS0242	Units
Frequency	824-849	MHz
Gain (min)	30	dB
Flatness p-p (max)	2.0	dB
NF (max)	0.9	dB
VSWR in (max)	1.4:1	
VSWR out (max)	1.4:1	
P1dB (min)	+20	dBm
Input IP3 (min)	+8	dBm
Dimensions	3.7x1.9x.8	inches
DC Current (typ)	150	mA

Specifications at T = +25°C and VDC = +15V

Operating temperature: -40 to +70°C.

Storage temperature: -40 to +85°C

Input/Output impedance: 50 Ω

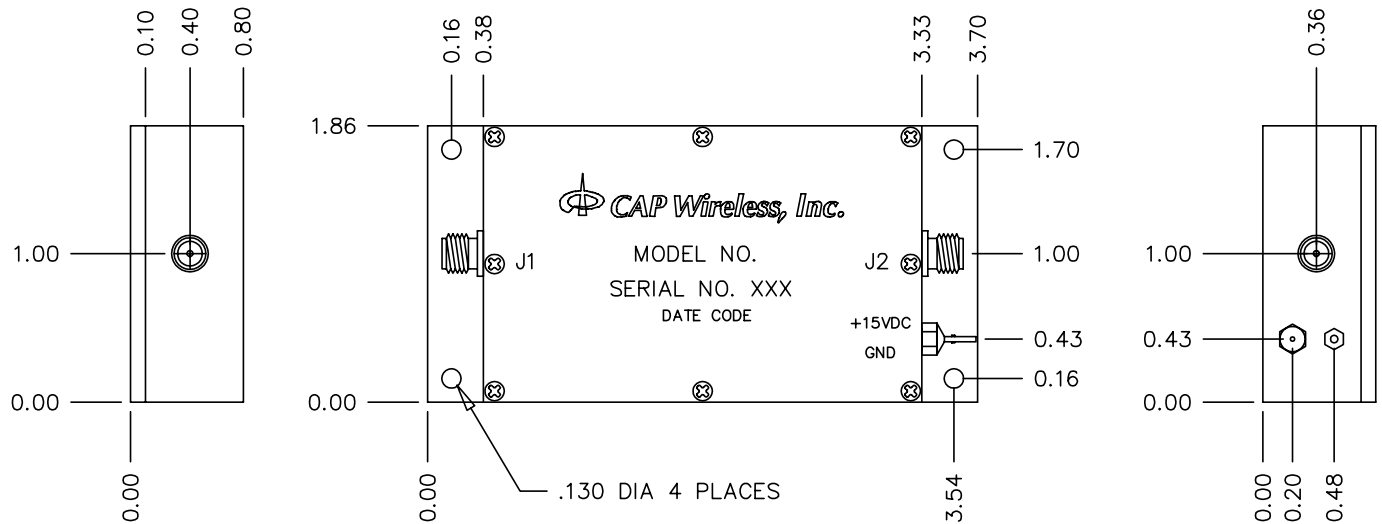
Input/Output connectors: SMA



LOW NOISE AMPLIFIER

PS0242

Outline Drawing B



Company Design Philosophy

Essential to the company's strategy is the use of the latest and most sophisticated design software available. These design tools include complete suites of Agilent-EEsof, and AWR- Microwave Office, circuit and system high frequency EDA tools. The company consistently achieves its goal of accurately creating "prototypes" in software, as evidenced by its ability to go directly from a simulated design to deliverable prototypes and rapidly ramp to fulfill volume requirements. A crucial element of the company's development philosophy is to "design for production" to drastically improve manufacturability by virtually eliminating tuning and adjustments as part of the manufacturing process. The result is lower cost, higher reliability products with predictable delivery times.

The products shown on these data sheets are merely a representation of the company's capabilities, where a library of designs is available to draw upon to meet specific customer performance requirements. If you have a unique requirement, contact the factory to explore the latest in technology.