

LOW NOISE AMPLIFIER

SS032101

Features

- Low noise
- High intercept point
- Single ended design w/ Input isolator
- Internal regulator / Active bias
- Unconditionally stable

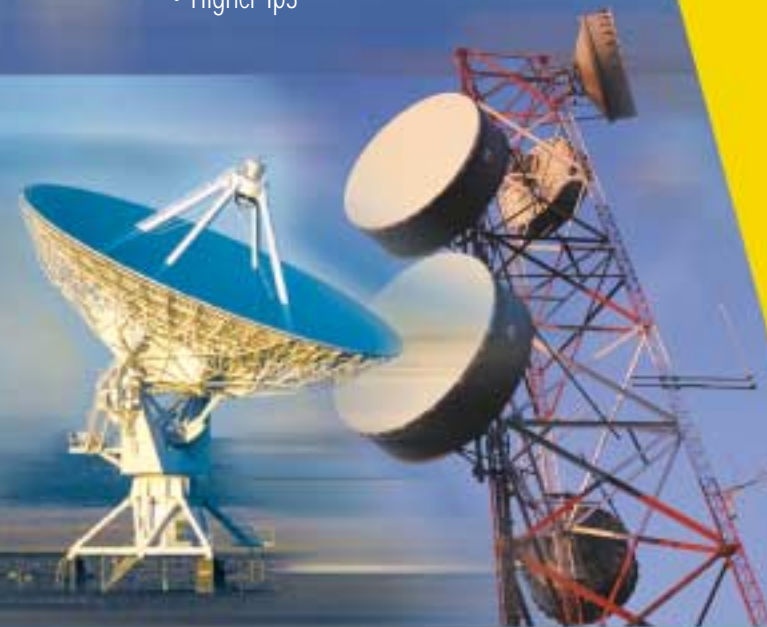
Options

- Other bandwidths
- Gain levels
- Other packages
- Higher Ip3



Description

Designed for front-end performance in Radar and Telemetry Systems, this family of amplifiers utilizes GaAs FET devices to achieve low noise and high third order intercept point. The single ended front-end design with input isolator ensures low noise figure, good match, stability, and power handling, making these units ideal for use in Radar and Telemetry applications.



| Model | SS032101 | Units |
|--------------------|-----------|-------|
| Frequency | 2200-2300 | MHz |
| Gain (min) | 40 | dB |
| Flatness p-p (max) | +/-1.0 | dB |
| NF (max) | 0.6 | dB |
| VSWR in (max) | 1.5:1 | |
| VSWR out (max) | 1.5:1 | |
| P1dB (min) | +14 | dBm |
| Voltage | +15 VDC | |
| DC Current (typ) | 150 | mA |

Specifications at T = +25°C

Operating temperature: -40 to +70°C.

Storage temperature: -50 to +85°C

Input/Output impedance: 50 Ω

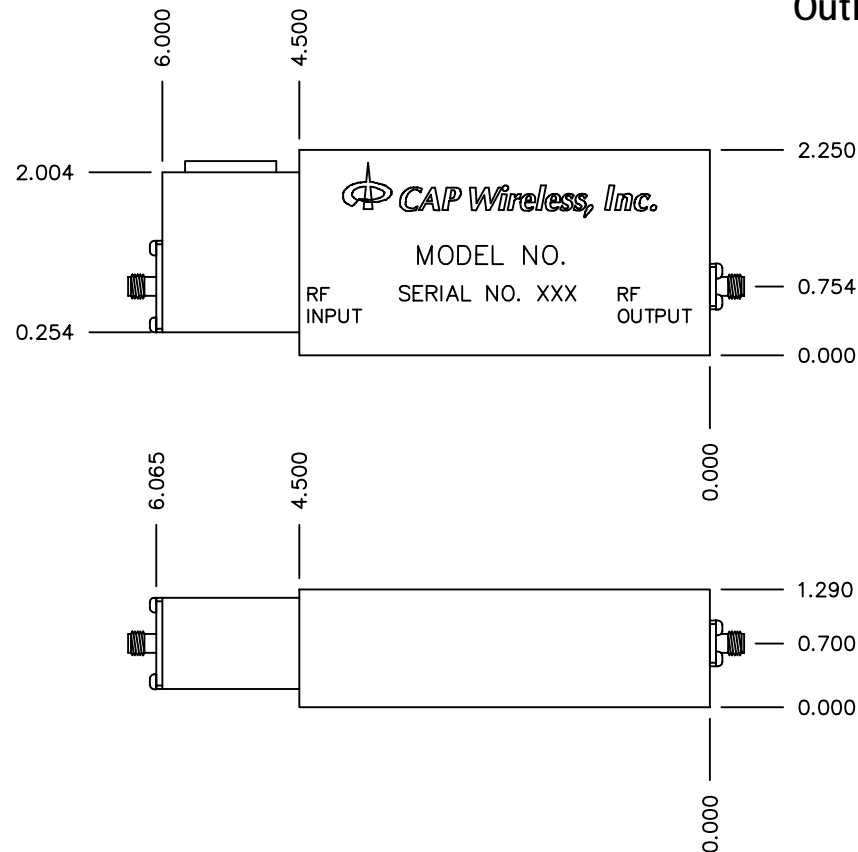
Input/Output connectors: SMA



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Outline Drawing H



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.