

LOW NOISE AMPLIFIER

Features

- Low noise and high intercept point
- Small, surface mount package
- Balanced design
- Internal regulator/Active bias
- Unconditionally stable

Options

- Lower noise figure
- Other bandwidths
- Gain levels
- Higher Ip3



PA1152

Description

Designed for front end performance in the cellular band, these amplifiers utilize GaAs FET devices to achieve low noise and high third order intercept point. The balanced approach allows for graceful degradation and the unique design results in one of the smallest possible devices, making these units ideal in situations where board space is a premium.



Model	PA1152	Units
Frequency	800-850	MHz
Gain (min)	15	dB
Flatness p-p (max)	0.7	dB
NF (max)	1.2	dB
VSWR in/out (max)	1.7:1	
Input IP3 (min)	+20	dBm
Rev Isolation (min)	20	dB
Dimensions	1.5x1.1x0.43	inches
DC Current (typ)	165	mA

Specifications at T = +25°C and VDC = +15V (+20V max)

Operating temperature: -10 to +50°C.

Storage temperature: -30 to +70°C

Input/Output impedance: 50 Ω

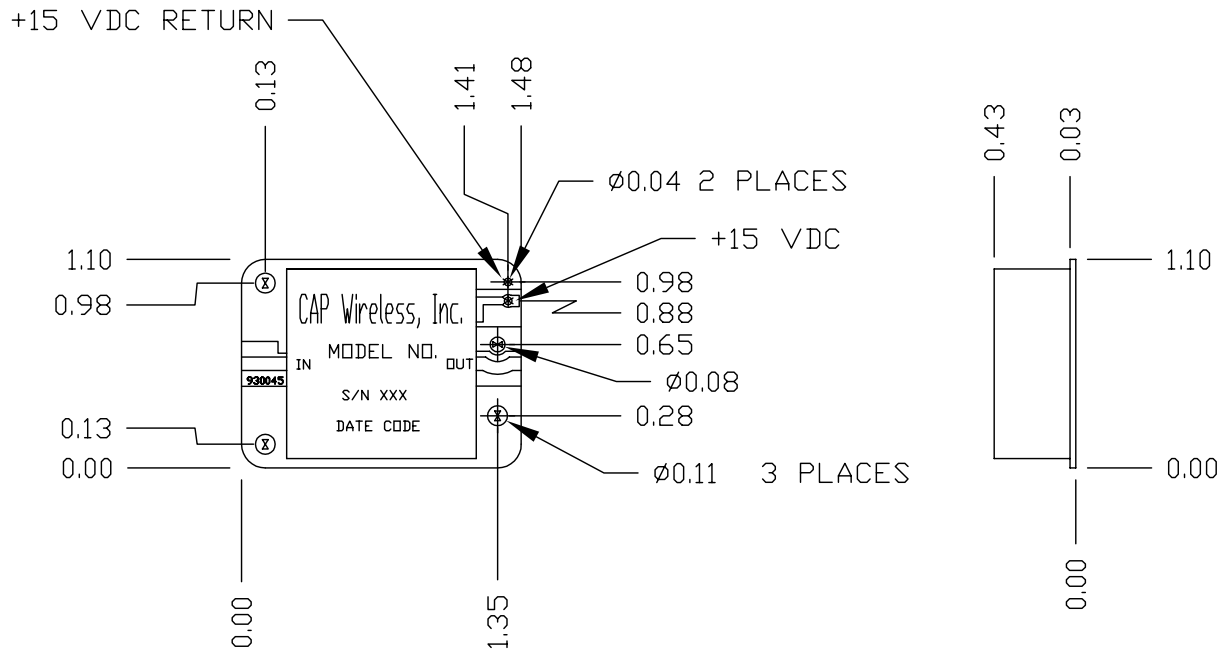
Input/Output: Microstrip



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Outline Drawing A



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.