

RADITEK

LNA Surface Mount Amplifier RLNA-180-2000M-SMT

Product Features

- GaAs p-HEMT chip on board
- No matching circuit needed
- High IP3
- Surface Mount Hybrid Type
- Tape & Reel Packaging
- Small Size
- Alumina Substrate
- High Heatsink

Application

- Repeater
- Base Station
- RF Sub-Systems

Description

This Wideband LNA I family is a high gain, low noise amplifier. It is one of the smallest matched LNAs.

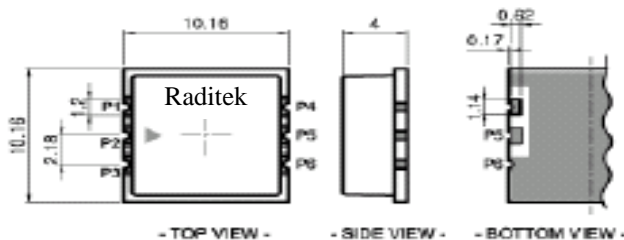
This family of Low Noise Amplifier has superior performance comes with a modest price tag.

Specifications

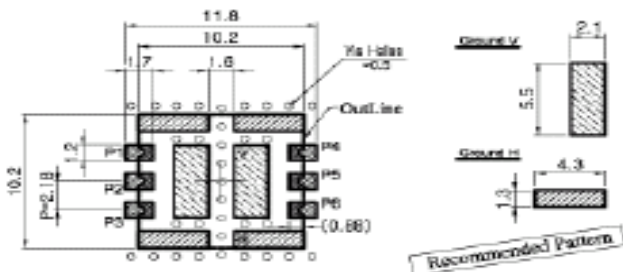
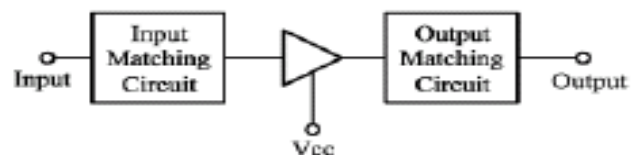
(Operating Temperature: -30°C~+80°C)

PARAMETER	WL1008	WL2208	WL1015	WL2215
Frequency Range (MHz)	50~1000	50~2200	50~1000	50~2200
Power Gain (dB)	16	15	16	15
Gain Flatness (dB)	±1.0	±2.0	±1.0	±2.0
Input Return Loss (dB)(S ₁₁)	-15	-10	-15	-10
Output Return Loss (dB)(S ₂₂)	-5	-5	-5	-5
1dB Compression Point (dBm)(P ₁ dB)	19	20	21	21
Output 3 rd Order Intercept Point (dBm)(OIP3)(TYP)	31	31	35	35
Noise Figure (dB)(TYP)	1.5	1.5	2.00	2.00
DC Current (V _{dc} =5V, T _c =25°C)(mA)	100	100	160	160

Dimensions in mm



Functional Diagram

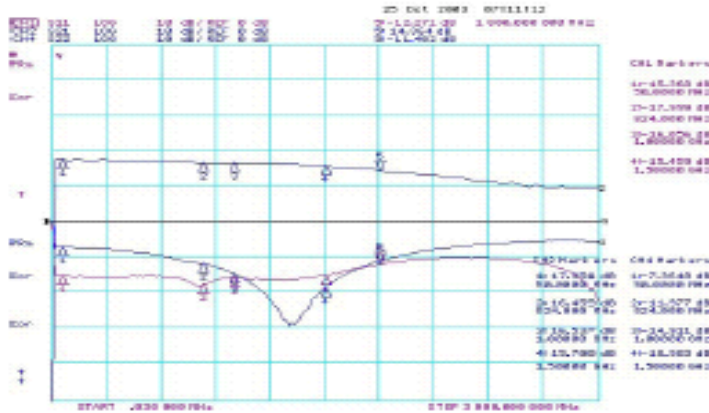


Pin No.	Function
P1, P3, P6	Ground
P2	Input
P4	Vcc
P5	Output

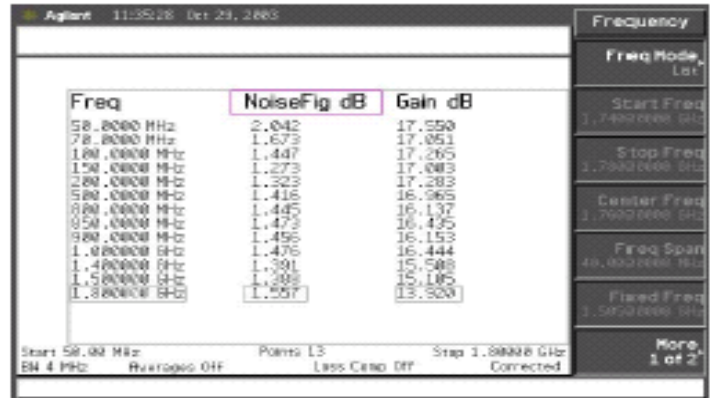
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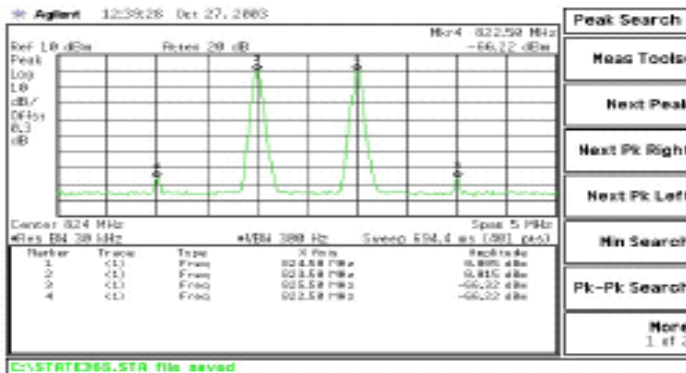
S-Parameter



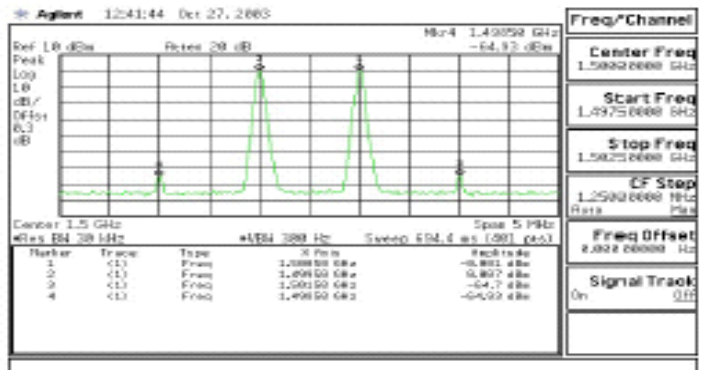
Noise Figure



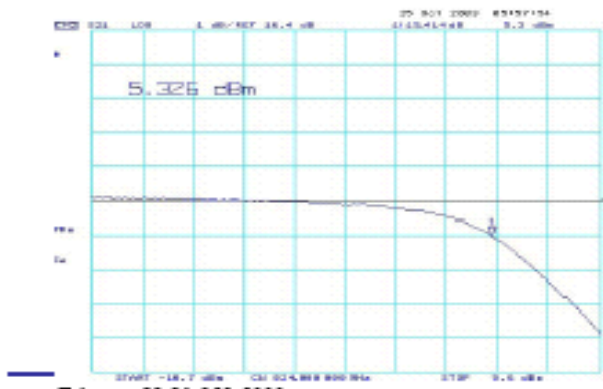
OIP3(824MHz)



OIP3(1500MHz)



P1dB(824 MHz)



P1dB(1500 MHz)

