

1200 ~ 1600 MHz Low Noise Amplifier¹

Key Features:

Broad Frequency Range: 1200 ~ 1600 MHz
 High Gain: 35 dB
 Low Noise Figure: 0.7 dB
 High P_{1dB}: 19 dBm
 Single DC Supply: 90 mA @ +5V
 Package: SMT, 0.50"x0.35"x0.08"
 Built-in Functions: Limiter for protection

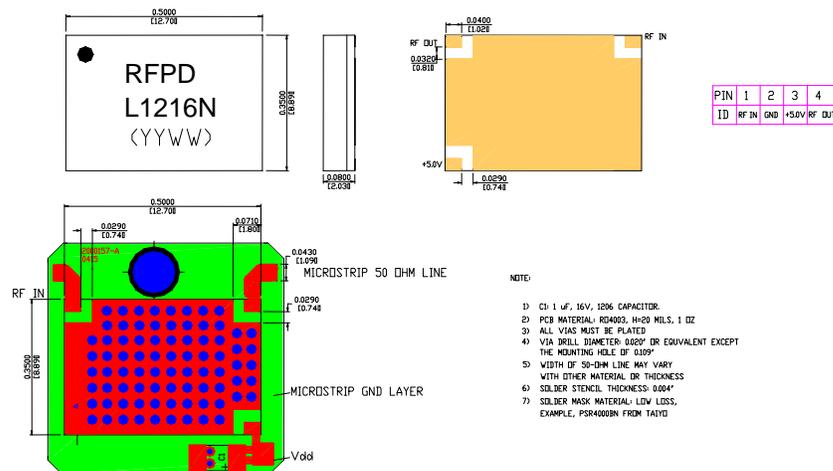
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RLAS1216N is designed to meet the rugged standards of MIL-STD-202 and MIL-STD-883.

Electrical Specifications: (at +25 °C)

Testing Item	Symbol	Test Condition	Min	Nom	Max	Unit
Frequency Range	BW		1200		1600	MHz
Gain	S ₂₁	1200 ~ 1600 MHz		35		dB
Gain Variation	ΔG	1200 ~ 1600 MHz		+/- 0.75	+/-1.0	dB
Input VSWR	S ₁₁	1200 ~ 1600 MHz		1.22:1	1.3:1	
Output VSWR	S ₂₂	1200 ~ 1600 MHz		1.22:1	1.3:1	
Noise Figure	NF	1200 ~ 1600 MHz		0.7	0.8	dB
Output Power @ 1dB Compression	P _{1dB}	1200 ~ 1600 MHz	17	19		dBm
Output IP3	OIP ₃	2-tone, +0 dBm per tone		31		dBm
Amplitude Variation				+/- 0.25		dB
Phase Variation				+/- 5		Degree
Maximum Input Power with Limiter				30		dBm
Current Consumption	I _{dd}	V _{dd} = +5 V		90		mA
Power Supply Voltage	V _{dd}			+5		V
Operating Temperature	T _o		-45		+85	°C

Outline Drawing



¹ Specifications are subject to change without notice.

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Ordering Information

Part Number	RLAS1216N
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