

1200 ~ 1600 MHz Low Noise Amplifier¹

Key Features:

Broad Frequency Range: 1145 ~ 1635 MHz
 High Gain: 35.5 dB
 Low Noise Figure: 0.7 dB
 P_{1dB}: +3 dBm
 Single DC Supply: 43 mA @ +5V
 Package: SMT, 0.50"x0.35"x0.08"
 Built-in Functions: Limiter at input port for protection, Bias-T and limiter at RF output port

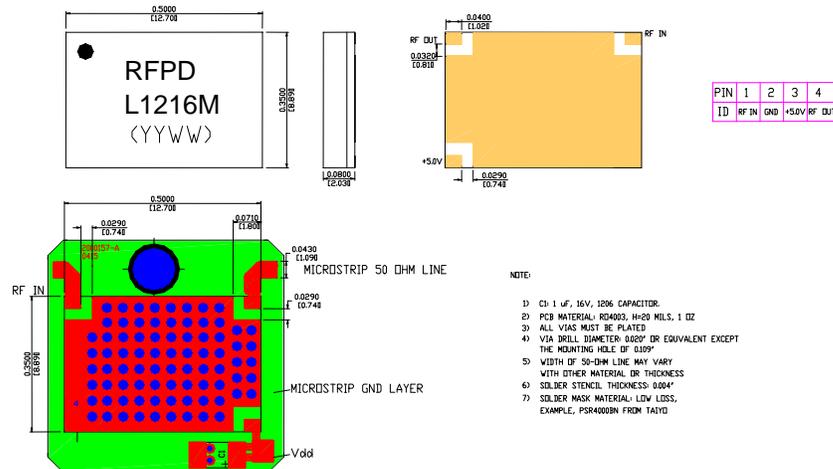
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RLAS1216M is designed to meet the rugged standards of MIL-STD-202 and MIL-STD-883.

Electrical Specifications: (at +25 °C)

Testing Item	Symbol	Test Condition	Min	Nom	Max	Unit
Frequency Range	BW		1145		1635	MHz
Gain	S ₂₁	1145 ~ 1635 MHz	34	35.5	37	dB
Gain Variation	ΔG	1145 ~ 1635 MHz		+/- 0.75	+/-1.0	dB
Input VSWR	S ₁₁	1145 ~ 1635 MHz		1.25:1	1.5:1	
Output VSWR	S ₂₂	1145 ~ 1635 MHz		1.25:1	1.5:1	
Reverse Isolation	S ₂₁	1145 ~ 1635 MHz				
Noise Figure	NF	1145 ~ 1635 MHz		0.7	0.85	dB
Output Power @ 1dB Compression	P _{1dB}	1145 ~ 1635 MHz		3	5	dBm
Output IP3	OIP3	1145 ~ 1635 MHz		TBD		dBm
Current Consumption	I _{dd}	V _{dd} = +5 V	30	43	50	mA
Power Supply Voltage	V _{dd}		+4.5	+5	+5.5	V
Thermal Resistance	R _{th,c}	Junction to case			215	°C/W
Operating Temperature	T _o		-40		+85	°C
Maximum Input Power with Limiter	P _{in,MAX}	1145 ~ 1635 MHz			+30	dBm

Outline Drawing



¹ Specifications are subject to change without notice.

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Ordering Information

Part Number	RLAS1216M
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