

1145 ~ 1600 MHz Low Noise Amplifier

Key Features:

Broad Frequency Range:	1145 ~ 1600 MHz
High Gain:	26 dB
Low Noise Figure	1.25 dB
Single DC Supply:	50 mA @ +5V
Package:	SMT, 0.50"x0.35"x0.08"
Built-in Functions:	Built-in limiter at input/output and bias-T at output

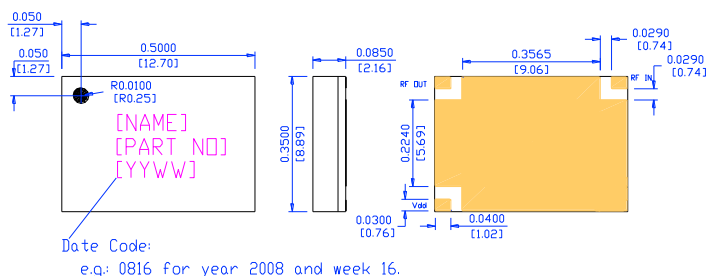
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RLAS1216P is designed to meet the rugged standards of MIL-STD-202 and MIL-STD-883.

Electrical Specifications¹: (at +23 °C)

Testing Item	Symbol	Test Condition	Min	Nom	Max	Unit
Frequency Range	BW		1145		1600	MHz
Gain	S ₂₁	1145 ~ 1600 MHz		26		dB
Gain Variation	ΔG	1145 ~ 1600 MHz		+/- 1.0	+/-1.3	dB
Input VSWR	S ₁₁	1145 ~ 1600 MHz	1.25:1		1.6:1	
Output VSWR	S ₂₂	1145 ~ 1600 MHz	1.25:1		1.6:1	
Reverse Isolation	S ₁₂	1145 ~ 1600 MHz		40		dB
Noise Figure	NF	1145 ~ 1600 MHz		1.25	1.6	dB
Input Power @ 1dB Compression	P _{1dB}	1145 ~ 1600 MHz	-25	-20		dBm
Input IP3	IIP ₃	2-tone, output -10 dBm per tone, 1MHz spacing	-15	-10		dBm
Maximum Input Power with Limiter					30	dBm
Current Consumption	I _{dd}	V _{dd} = +5 V		50		mA
Power Supply Voltage	V _{dd}		+4.7	+5	+5.3	V
Thermal Resistance	R _{th,c}	Junction to case			215	°C/W
Operating Temperature	T _o		-54		+85	°C
Output Limiter			Built-in			

Outline Drawing



¹ Specifications are subject to change without notice.

Ordering Information

Part Number	RLAS1216P
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