

**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

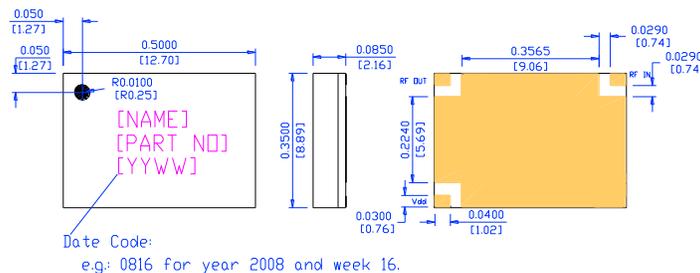
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RLAS1216P is designed to meet the rugged standards of MIL-STD-202 and MIL-STD-883.

**Electrical Specifications<sup>1</sup>:** (at +23 °C)

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

**Outline Drawing**



<sup>1</sup> Specifications are subject to change without notice.

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**Ordering Information**

<b>Part Number</b>	RLAS1216P
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Internal Richardson Document #	Origination Date: December 2008	Rev: 2A Date: May 2011	Page 2/2
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