

**6 ~ 18 GHz Broadband Low Noise Amplifier<sup>1</sup>**

**Key Features:**

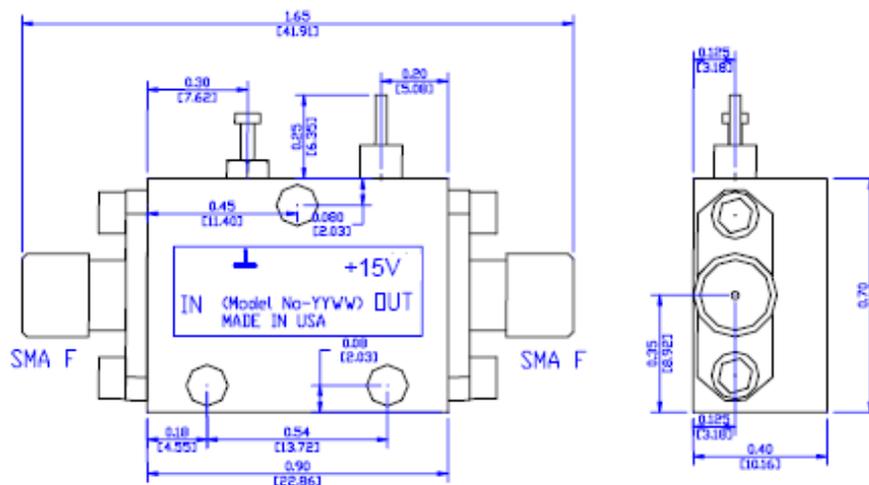
- Broad Frequency Range: 6 ~ 18 GHz
- High Gain: 22 dB
- Low Noise Figure: 2.0 dB
- P<sub>1dB</sub>: 10 dBm
- Single DC Supply: 60 mA @ +15V
- Connectors: SMA (F)
- Built-in Functions: TBD

Photo not available

**Electrical Specifications:** (at +25 °C)

Testing Item	Symbol	Test Constraints	Min	Nom	Max	Unit
Frequency Range	BW		6		18	GHz
Gain	S <sub>21</sub>	6 ~ 18 GHz		22		dB
Gain Variation	ΔG	6 ~ 18 GHz		+/- 1.0	+/- 1.3	dB
Input Return Loss	S <sub>11</sub>	6 ~ 18 GHz	-7	-12		dB
Output Return Loss	S <sub>22</sub>	6 ~ 18 GHz	-7	-12		dB
Reverse Isolation	S <sub>12</sub>	6 ~ 18 GHz	-30	-40		dB
Noise Figure	NF	6 ~ 18 GHz		2.0	2.5	dB
Output Power @ 1dB Compression	P <sub>1dB</sub>	6 ~ 18 GHz	9	10		dBm
Current Consumption	I <sub>dd</sub>	V <sub>dd</sub> = +15 V	50	60	70	mA
Power Supply Voltage	V <sub>dd</sub>			+15		V
Operating Temperature	T <sub>o</sub>		-40		+85	°C
Maximum Average RF Input Power	P <sub>IN, MAX</sub>	6 ~ 18 GHz			10	dBm
Weight				20	25	Gram

**Outline Drawing:**



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

Available exclusively from Richardson RFPD - 800-737-6937 (U.S. & Canada) - 630-208-2700 (International)  
Or visit [www.richardsonrfpd.com](http://www.richardsonrfpd.com). See important product notice on last page of this document.

**Ordering Information**

<b>Part Number</b>	RLAC060180A
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