

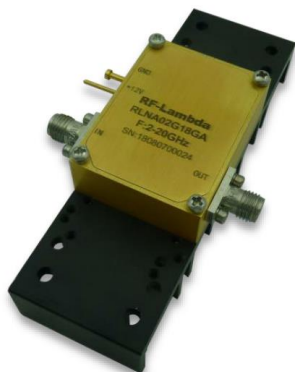


RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RLNA02G18GB

Wide Band Driver Amplifier 2GHz~18GHz



Features

- Gain: 15dB Typical
- Functional Bandwidth : 2 to 20GHz
- Noise Figure: 4.5dB Typical
- P1dB Output Power: +26dBm Typical
- Supply Voltage: +15V

Typical Applications

- Wireless Infrastructure
- RF Microwave & VSAT
- Military & Aerospace
- Test Instrument

Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +15\text{V}$

Parameter	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	2		12	12		18	GHz
Gain	14	15		13	15		dB
Gain Flatness		± 1.0			± 1.0		dB
Gain Variation Over Temperature (-45 ~ +85)		± 1.0			± 1.0		dB
Noise Figure		4.0	6		5.5	6.5	dB
Input VSWR		1.5	2.0		1.5	2.0	: 1
Output VSWR		1.6	2.0		1.6	2.0	: 1
Output 1dB Compression Point (P1dB)	24	26		22	24.5		dBm
Saturated Output Power (Psat)		27.5			26		dBm
Output Third Order Intercept (IP3)		30			27		dBm
Isolation S12		-40			-30		dB
Supply Current ($V_{CC}=+15\text{V}$)		200	250		200	250	mA
Weight	1.41						ounces
Impedance	50						Ohms
Input / Output Connectors	SMA - Female						
Finish	Gold Plated						
Material	Aluminum						
Package Sealing	Epoxy Sealed (Standard)						
	Hermetically Sealed (Optional)						

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Absolute Maximum Ratings

Operating Voltage	+15V±10%
RF Input Power	+20dBm

Biasing Up Procedure

Step 1	Connect Ground Pin
Step 2	Connect input and output
Step 3	Connect +15V biasing
Power OFF Procedure	
Step 1	Turn off +15V biasing
Step 2	Remove RF connection
Step 3	Remove Ground.

Environmental Specifications

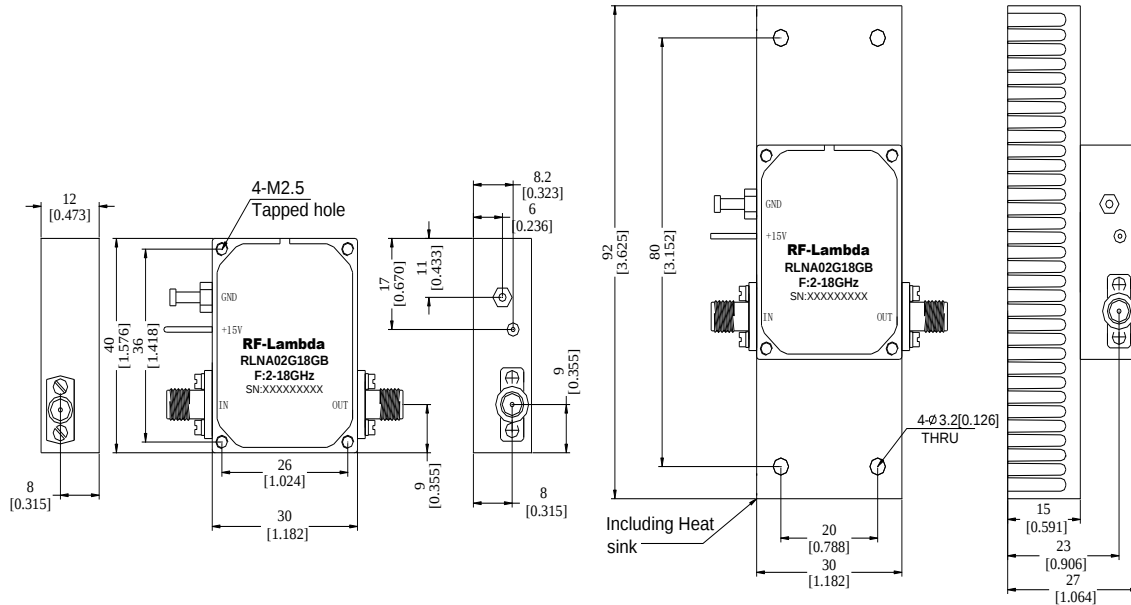
Operational Temperature (°C)	-45 to +85
Storage Temperature (°C)	-50 to +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

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Outline Drawing:

All Dimensions in mm [inches]



Heat Sink required during operation (Sold Separately)



Ordering Information

Part No.	ECCN	Description
RLNA02G18GB	EAR99	2-18GHz Wide Band Driver Amplifier

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