

50Ω DC~7GHz, Low Noise, Low Current, Wide Voltage

Case PN: 6ED4W6H41SA20

Features:

- * Broad Frequency Range: DC to 7GHz
- * Noise Figure: typical 2.3 dB @ 2 GHz
- * Gain: 16 dB Gain at 3.5 GHz
- * Output P1dB: +3.0 dBm CW at 3.5GHz
- * +17.5 dBm OIP3 at 16mA current
- * Single +5~+15V Supply (ROHS Compliant)
- * EMI Shield (Waterproof) Option Available (PN#: LADC7GRW)
- * Two Female SMA Connectors for RF In/Out

Applications:

- * Mobile Infrastructure
- * General Purpose Wireless
- * Test Instrumentation

General Description:

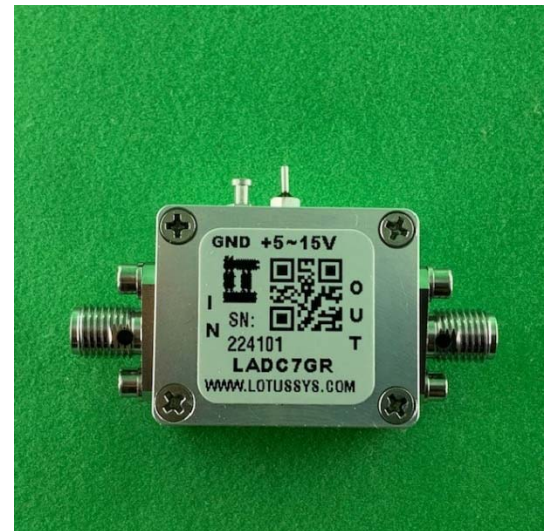
LADC7GR is a wideband, high-linearity, low noise amplifier in a small 1-1/8"x15/16"x0.48" shielded RF enclosure. At 3.5 GHz, the amplifier typically provides 16 dB gain, +17.5 dBm OIP3 at a 16mA bias setting, and 2.3 dB noise figure. The LNA can be biased from a single supply +5~+15V.

Electrical Specifications:

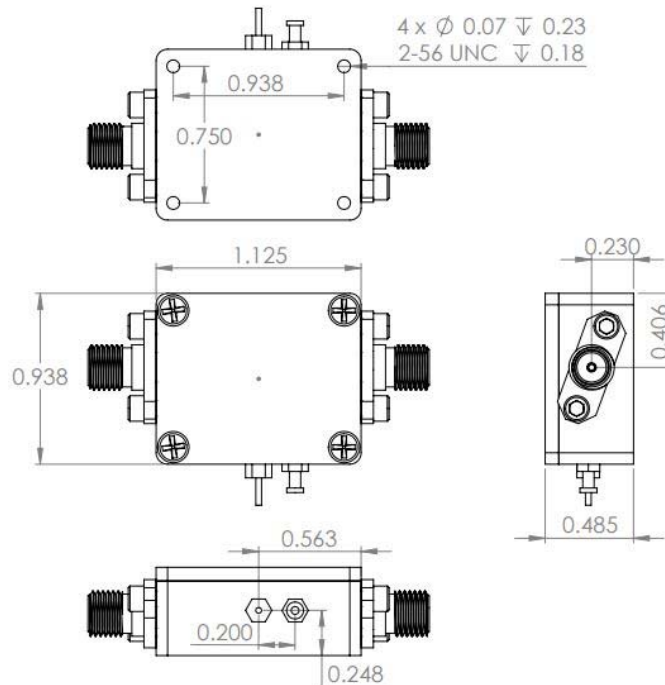
Item	Parameter	Condition	Electrical Specification			
			MIN	TYP	MAX	UNITS
1	Frequency		DC		7000	MHz
2	Gain		11	16	22	dB
3	Noise Figure		2.2	2.3	3.1	dB
4	Output P1dB			+3		dBm
5	Input Return Loss		8	12		dB
6	Output Return Loss		10	13		dB
7	Pin max without damage			-2		dBm
8	Gain Flatness	N/A				
9	Output IP3			+17.5		dBm
10	Voltage		+5	6	+15	V
11	Operating Current (Quiescent)			16		mA
12	Environmental Rating	IP67 (Option)				
13	Operating Temperature		-40		+85	Deg C

Absolute Maximum Ratings

Item	Parameter	Rating	UNITS
1	Operating Temperature	-40 to 85	°C
2	Max Storage Temperature	-65 to +150	°C



Outline Drawing (inch)



S-Parameters

