

Typical Applications

- Aerospace and Military Applications
- Wideband Communication Systems
- Point-to-Point Radios
- Point-to-Multi-Point Radios
- Test Instrumentation

Main Features

Broadband Low Noise Amplifier 18 – 40 GHz
 Low Noise Figure : 5.5 dB typ.
 No External Matching Required
 High peak to average handle capability
 Customization available upon request

Electrical Specifications, Ta = +25°, Vdd = +12V

Parameter	Unit	Specification
Frequency Range	GHz	18 - 40
Gain	dB	30 min 32 typ.
Gain Flatness	dB	+/- 2 typ. / +/-2.5 max
Gain variation over Temperature	dB	+/- 1.5 typ. / +/- 2.0 max
Noise Figure	dB	5.5 typ. / 6.5 max
Input VSWR	dB	5 min / 10 typ.
Output VSWR	dB	5 min / 10 typ.
1 dB Compression Output Power (P1dB)	dBm	16 min / 18 typ.
Saturated Output Power	dBm	17 min / 20 typ.
Output Third Order Intercept (OIP3)	dBm	28 typ.
Supply Current (Vdd=+12V +/- 10%)	mA	300 typ. / 400 max
Maximum Input Power	dBm	-10 typ.
Isolation (S12)	dB	45 typ. / 50 max
In/Out Impedance	Ohm	50 typ.

TWDBLNA-01M-03GA

Low Noise Amplifier

Mechanical Specifications

Parameter	Unit	Specification
RF connectors		2.92 mm - Female
Material		Aluminum / Copper
Finish		Gold Plated

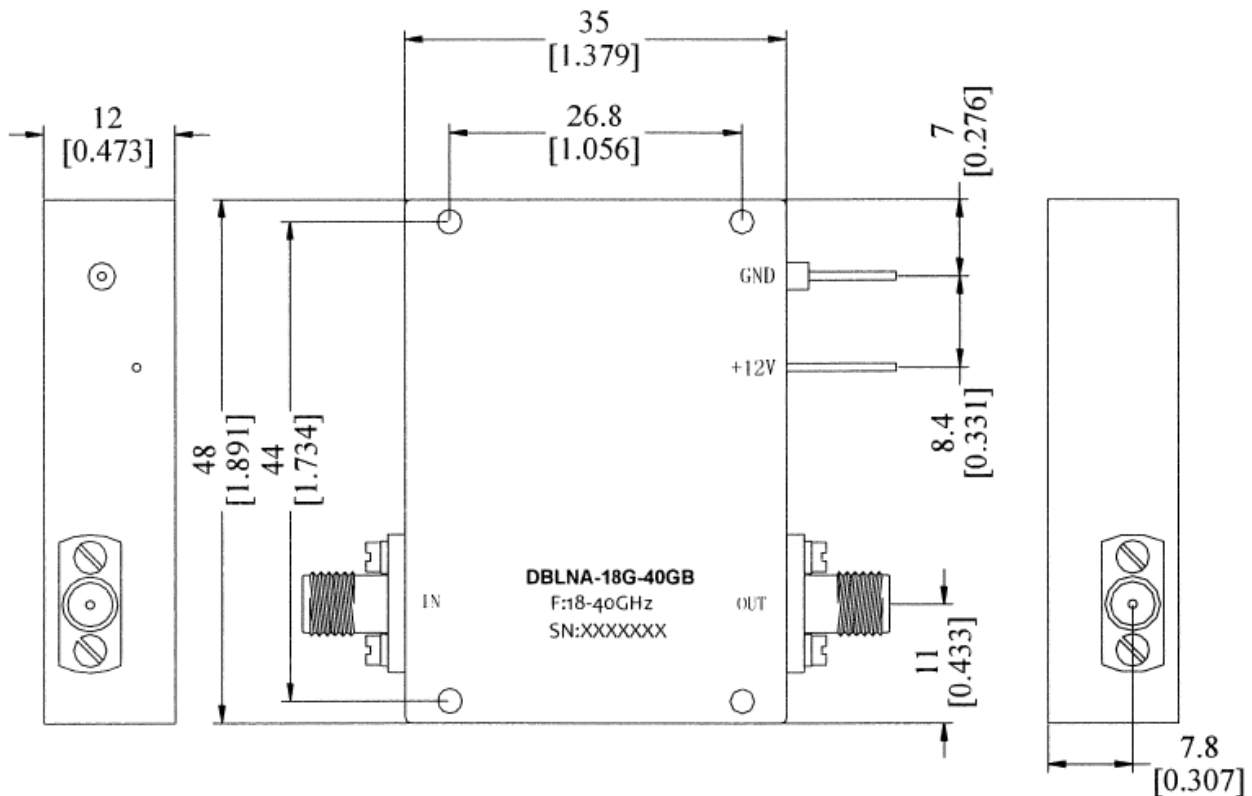
Environment

Parameter	Unit	Specification
Operating Temperature	°C	-45°C to +85°C
Storage Temperature	°C	-50°C to +125°C

Outline drawing

All dimensions in mm [inch]

Heat sink required during operation



Products and Product Information are Subject to Change Without Notice

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