S-Band LNA for Radar Receiver Channel

Applications

- S-band Radar / Surveillance
- Defense / Military Application
- Test / Simulator

Features

- High Power Handling & Survival
- High Linearity & Fast Recovery
- 0.5dB Step Attenuator

Specification

Parameter	Specification
Frequency Range	2.7 to 2.9GHz
Noise Figure at 23℃	2.2dB typ.
Noise Figure increasing with temperature(>23℃)	0.01dB/℃ max
Gain	26dB min
Gain Flatness	+/-1.0dB max
Gain Variation vs Temperature	+/-1.0dB max
VSWWR In/Out	1.5:1 max / 1.4:1 max
Power Handling	200W (norminal operating power) 1kW (survival, 1% duty for 5 microsec)
Input P1dB	-13dBm min
OIP3	22dBm min
Recovery Time	250sec typ. To within 1dB of linear gain 500nsec max.
Stability	Unconditionally stable
Monotonicity	Guaranteed
Attenuation Accuracy	+/-1.0dB or +/-5% of nominal value
Digital Attenuation Control	Inputs : RS-422 / programming : 6bit
Attenuation Range	0 to 31.5dB
Programmable Step	0.5dB approx
Clock	Inputs : RS-422 Input Rate : 4MHz max
Attenuation Stabilization Time	500ns max. for Change Difference 0.5 to 16dB 1microsec max. for Change Difference > 16dB
Unit Gain out of band	<= -24dB at DC-2500MHz <= 6dB at 2600MHz <= 6dB at 3000MHz <= -24dB at 3100-6000MHz
Switch gate	Inputs : RS-422 400ns max. from receiving mode to high isolation 3microsec max. from high isolation to receiving mode

The specification subject to change without notice.

GENMIX Microwave & Sensor

For the customized specification, price, and delivery ; Contact us
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Rev 1.0 on Aug. 28, 2013

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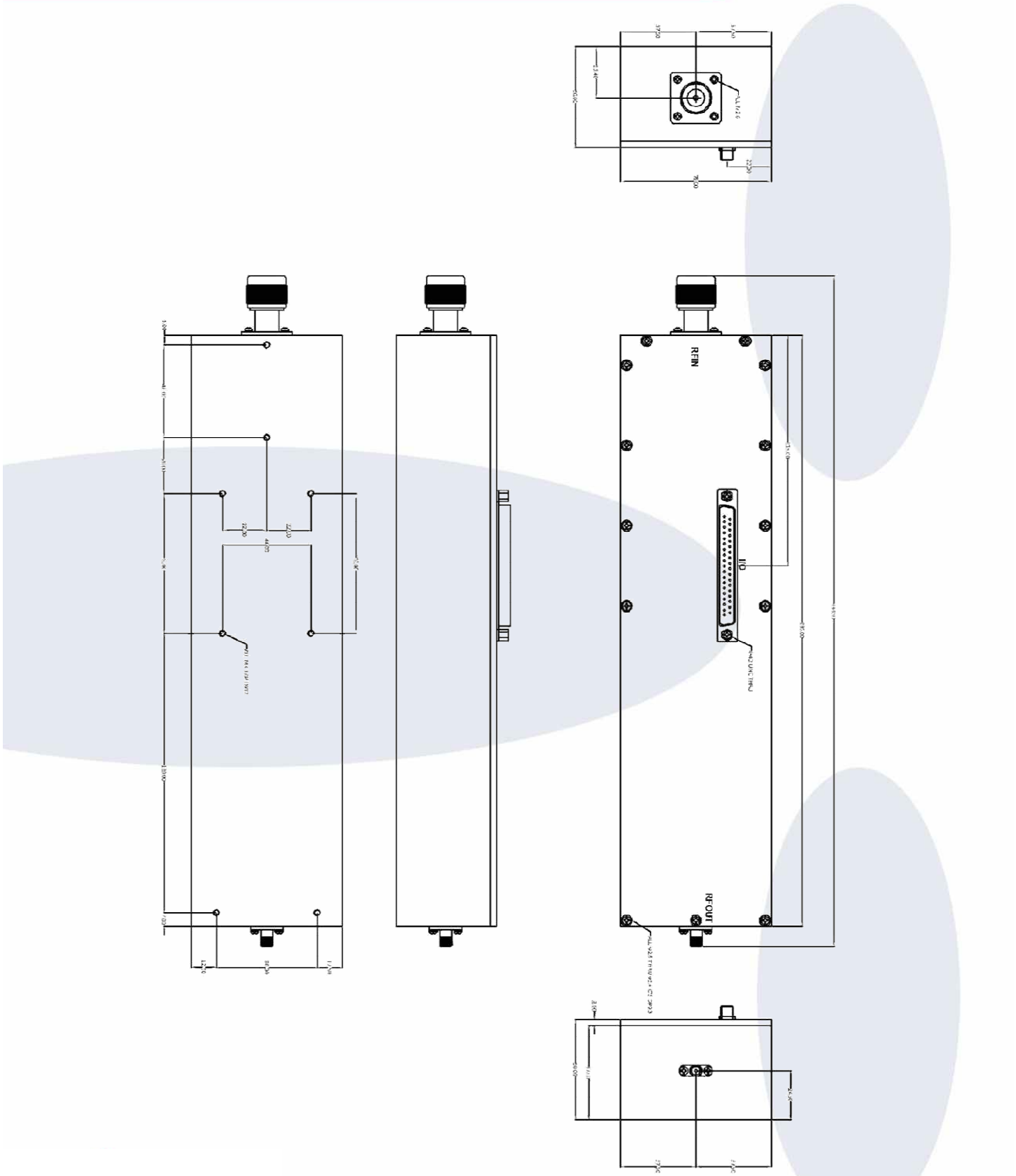

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