

FLA-2000-12000-25-13

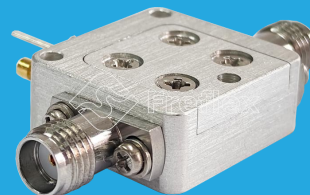
2~12GHz, 25dB, 1.3dB

Features:

- * Broadband
- * Low Noise

Applications:

- * Wireless
- * Receiver
- * Laboratory Test
- * Radar



Description

This product series features ultra-wideband low-noise amplifiers (LNAs) operating from 2 to 12GHz. The lineup includes:

- LNA modules powered by 5-15V DC, where increasing supply voltage enhances gain and output power;
- LNA systems with integrated switching-mode power supplies (SMPS) accepting 85-265V AC input, recommended for most applications;
- LNA systems employing linear-regulated power supplies for 220V AC operation, delivering optimal performance where extreme power purity is critical.

Electrical

Frequency:	2~12GHz
Gain:	25dB typ.
Gain Flatness:	±0.5dB typ.
Output Power (P1dB):	12dBm typ.
Output Power (Past):	14dBm typ.
Noise Figure:	1.3dB typ.
Spurious:	-60dBc max.
VSWR:	2.0 typ.
Reverse Isolation:	-40dB typ.
Voltage:	+5V DC (Outline A) +6~15V DC (Outline B) +85~+265V AC (Outline C) +220V AC (Outline D)
Current:	37mA typ. (Outline A, B)
Impedance:	50Ω

Absolute Maximum Ratings*1

RF Input Power:	+18dBm
Voltage:	+6V (Outline A) +20V (Outline B)

[1] Permanent damage may occur if any of these limits are exceeded.

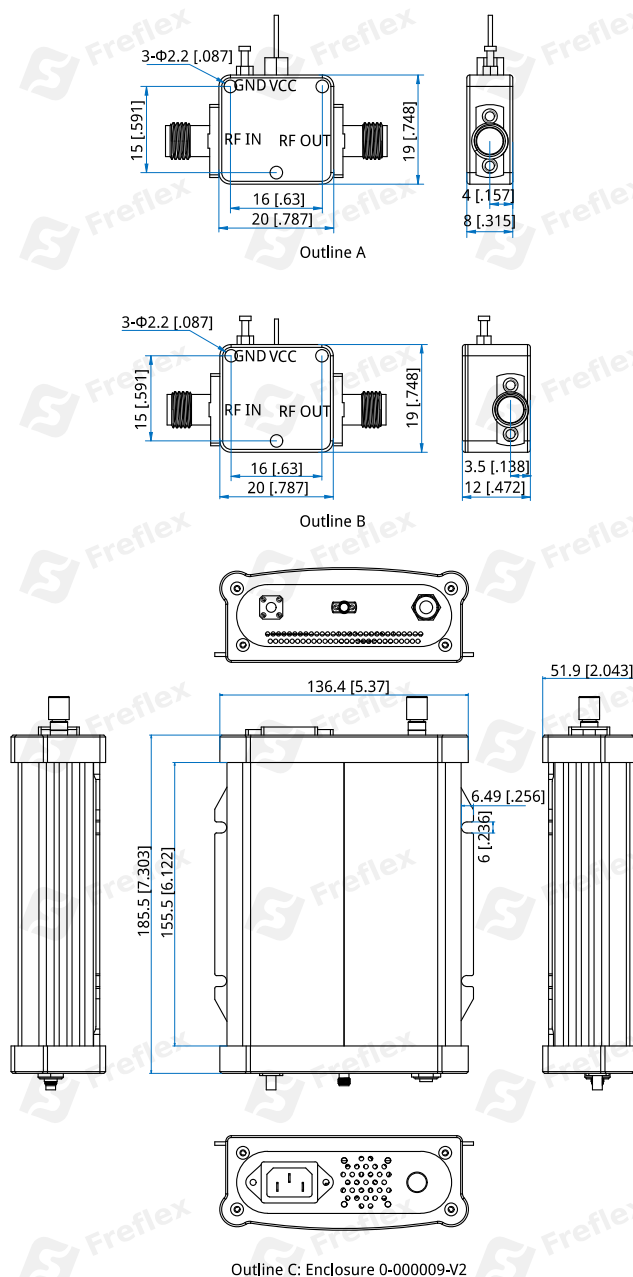
Mechanical

RF Connectors: SMA Female (Removable)

Environmental

Operating Temperature:	-45~+85°C
Non-operating Temperature:	-55~+125°C

Outline Drawings



Outline C: Enclosure 0-000009-V2

How To Order

FLA-2000-12000-25-13 - Outline A

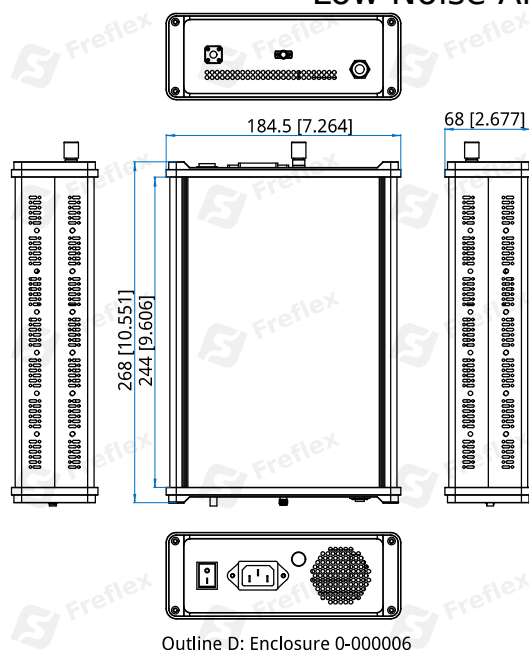
FLA-2000-12000-25-13-1 - Outline B

FLAS-2000-12000-25-13 - Outline C, AC-powered unit integrates a switching-mode power supply.

FLAS-2000-12000-25-13-1 - Outline D, AC-powered unit integrates a linear-regulated power supply.

Customization is available upon request.

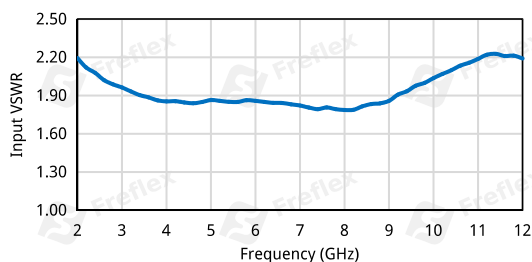
Low Noise Amplifier



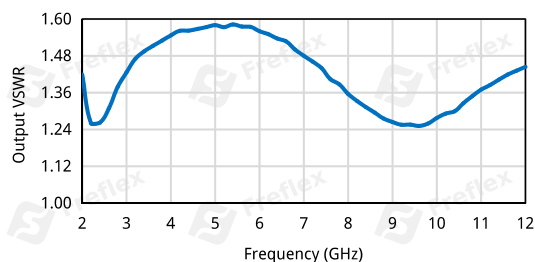
Unit: mm [in] Tolerance: $\pm 0.5\text{mm}$ [$\pm 0.02\text{in}$]

Typical Performance Curves

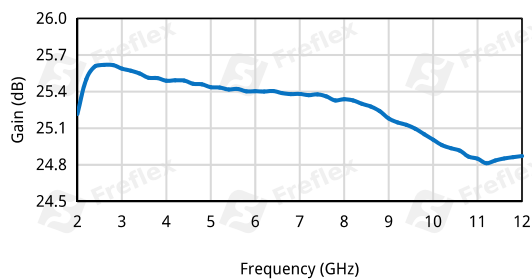
Input VSWR vs. Frequency



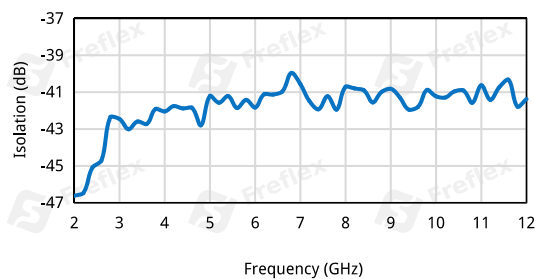
Output VSWR vs. Frequency



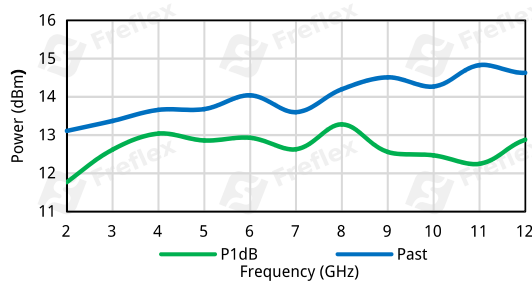
Gain vs. Frequency



Isolation vs. Frequency



Power vs. Frequency



Noise Figure vs. Frequency

