

## FLA-10-26500-55-30

10MHz~26.5GHz, 55dB, 3.0dB

### Features:

- \* Broadband
- \* Low Noise

### Applications:

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



### Description

This product series features ultra-wideband low-noise amplifiers (LNAs) operating from 10MHz to 26.5GHz. The lineup includes:

- LNA modules powered by 5-8V 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:           | 10MHz~26.5GHz                                                          |
| Gain:                | 55dB typ.                                                              |
| Gain Flatness:       | ±5dB typ.                                                              |
| Output Power (P1dB): | 11dBm typ. @+5V<br>15dBm typ. @+8V                                     |
| Output Power (Psat): | 15dBm typ. @+5V<br>17dBm typ. @+8V                                     |
| Noise Figure:        | 3.0dB typ.                                                             |
| Spurious:            | -50dBc typ.                                                            |
| VSWR:                | 1.8 typ.                                                               |
| Reverse Isolation:   | -60dB typ.                                                             |
| Voltage:             | +5~+8V DC (Outline A)<br>85~265V AC (Outline B)<br>220V AC (Outline C) |
| Current:             | 180mA typ. @+5V (Outline A)<br>350mA typ. @+8V (Outline A)             |
| Impedance:           | 50Ω                                                                    |

### Absolute Maximum Ratings<sup>\*1</sup>

|                 |                 |
|-----------------|-----------------|
| RF Input Power: | +18dBm          |
| Voltage:        | +9V (Outline A) |

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

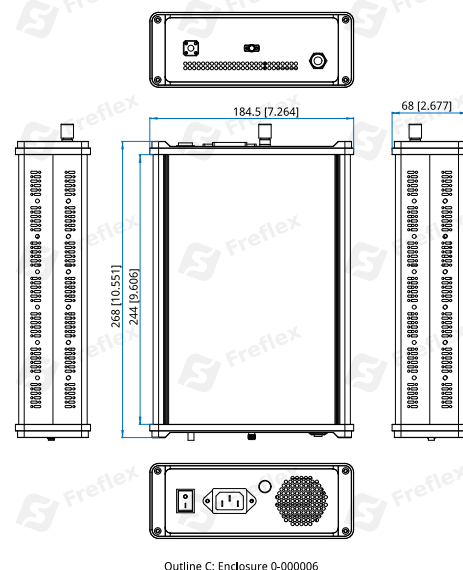
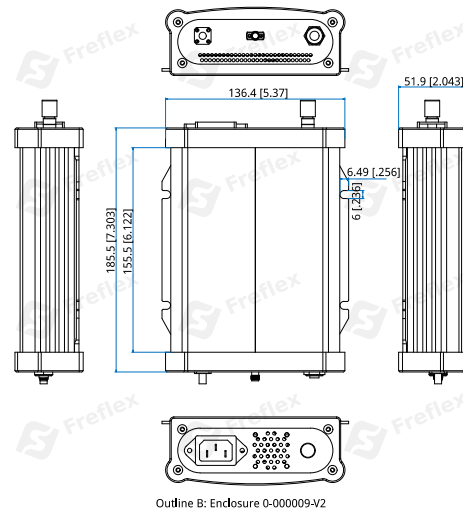
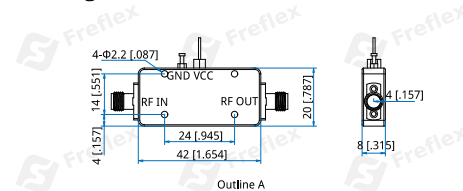
### Mechanical

RF Connectors: SMA Female (Removable)

### Environmental

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

### Outline Drawings



Unit: mm [in] Tolerance: ±0.5mm [±0.02in]

## How To Order

**FLA-10-26500-55-30** - Outline A

**FLAS-10-26500-55-30** - Outline B, AC-powered unit integrates a switching-mode power supply.

**FLAS-10-26500-55-30-1** - Outline C, AC-powered unit integrates a linear-regulated power supply.

Customization is available upon request.

## Typical Performance Curves

