

QLA-100-26500-55-30

0.1~26.5GHz, 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 0.1 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:	0.1~26.5GHz
Gain:	55dB typ.
Gain Flatness:	±5dB typ.
Output Power (P1dB):	11dBm typ. @+5V 15dBm typ. @+8V
Output Power (Psat):	15dBm typ. @+5V 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) 85~265V AC (Outline B) 220V AC (Outline C)
Current:	180mA typ. @+5V (Outline A) 350mA typ. @+8V (Outline A)
Impedance:	50Ω

Absolute Maximum Ratings^{*1}

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

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

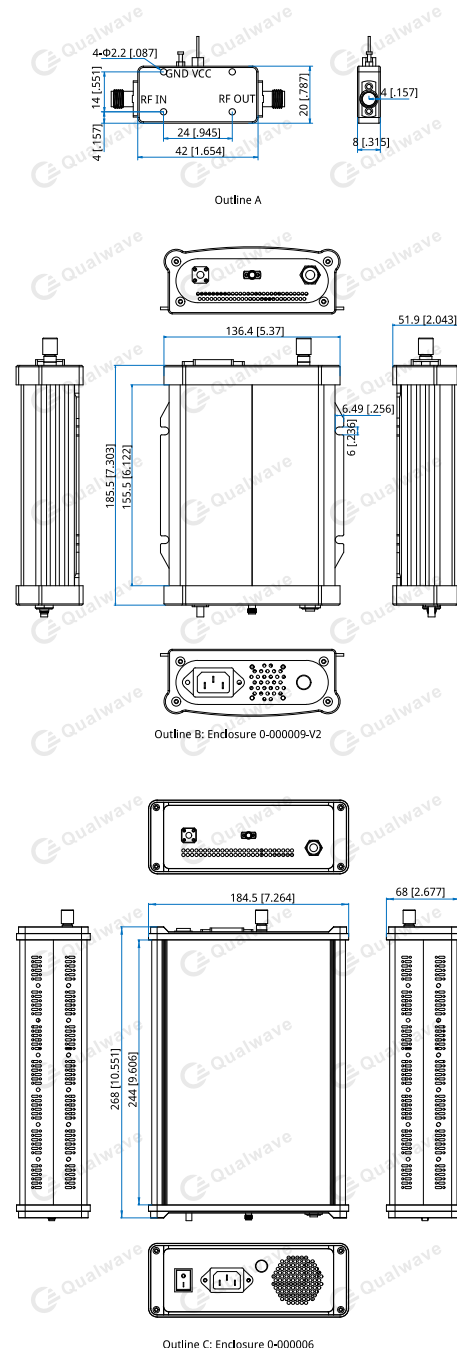
Mechanical

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

QLA-100-26500-55-30 - Outline A

QLAS-100-26500-55-30 - Outline B, AC-powered unit integrates a switching-mode power supply.

QLAS-100-26500-55-30-1 - Outline C, AC-powered unit integrates a linear-regulated power supply.

Customization is available upon request.

Typical Performance Curves

