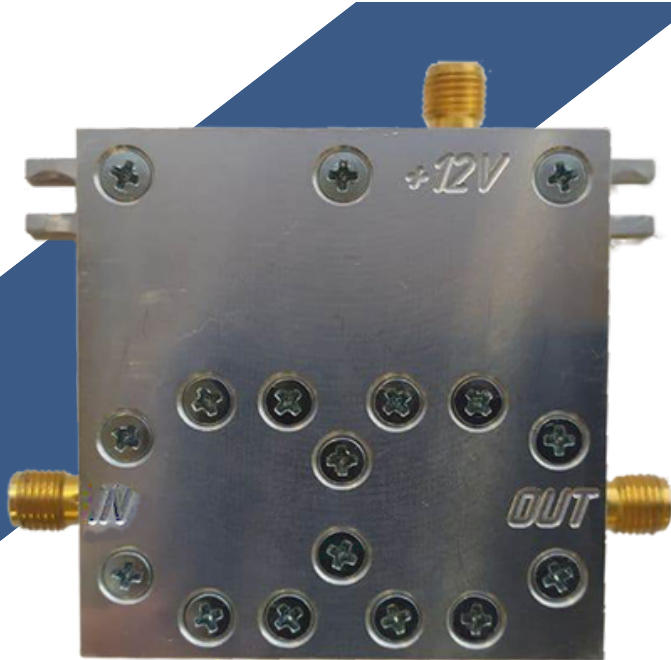


ULTRA-WIDEBAND LOW NOISE AMPLIFIERS

WBLNA-XX SERIES (WBLNA-20, WBLNA-26, WBLNA-28)



DATA SHEET

Frequency range

100 kHz to 28 GHz in subbands



Applications

- Test equipment
- Subsystems
- 5G & 6G Systems
- Plasma diagnostics
- Communication systems
- 5G, Sub-6 GHz

Key Features

- Wide Bandwidths: up to 30GHz
- DC Protection: Over-voltage
- Excellent gain flatness
- Low noise figure: 3...5 dB (typical)
- +17 dBm output power at saturation (typical)

Specifications

MODEL	WBLNA-20	WBLNA-26	WBLNA-28
Frequency range	100 kHz-20 GHz	100 kHz-26.5 GHz	2 GHz-28 GHz
Gain	24 dB \pm 1.5dB	24 dB \pm 2dB	25.5 dB \pm 1.5dB
Noise Figure	2.5...5 dB	2.5...5.5 dB	2.5...5 dB
Input/output VSWR	2/2 (typ)	2/2 (typ)	2/2 (typ)
Saturated Power	+16...+18 dBm	+16...+18 dBm	+15...+17 dBm
DC Supply Voltage (VDD)	+10V...+12V	+10V...+12V	+6V...+8V
DC Supply Current (VDD)	200 mA (max)	160 mA (max)	150 mA (max)
Dimensions	65*60*17 mm	65*60*17 mm	65*60*17 mm

General Description

ELVA-1 ultra wideband low noise amplifiers WBLNA-XX series are intended for amplification of CW signals and pulse RF signals. They are offered in the frequency range from 100 kHz to 30 GHz with coaxial SMA connectors.

ELVA-1 wideband amplifier products provide excellent performance is achieved by using a hybrid microwave integrated circuit design and advanced GaAs pHEMT technology. This class of RF amplifiers is matched internally for 50 Ohm input and output. The amplifiers are provided with integral equalizer, DC voltage regulator and DC protection circuits.

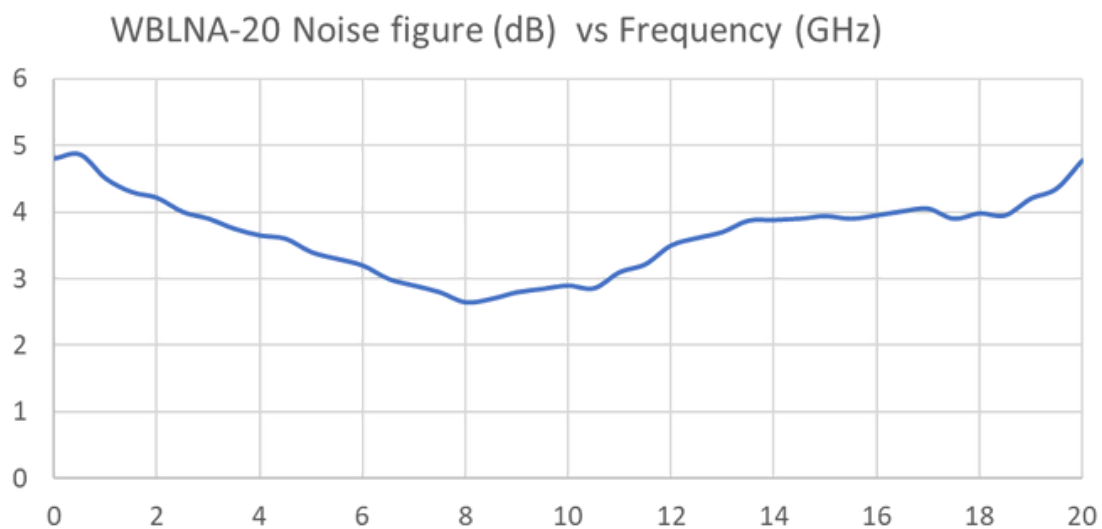
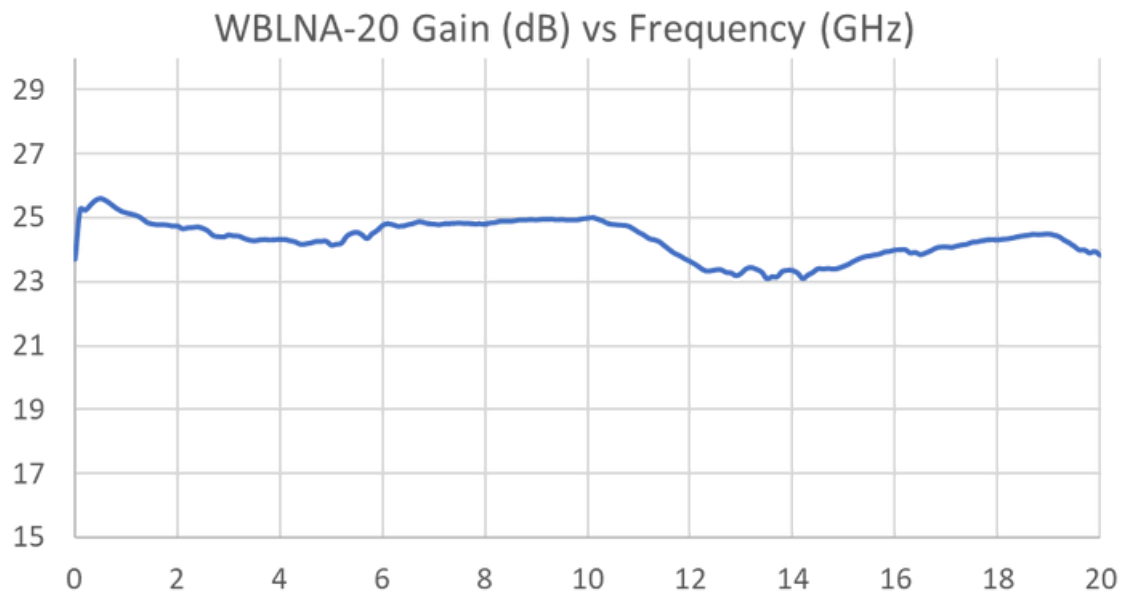
Custom designed WBLNA-XX models can be produced by special order.

Please contact ELVA-1 for quotation

SALES@ELVA-1.COM
WWW.ELVA-1.COM

TYPICAL DATA FOR WBLNA-20 AMPLIFIERS

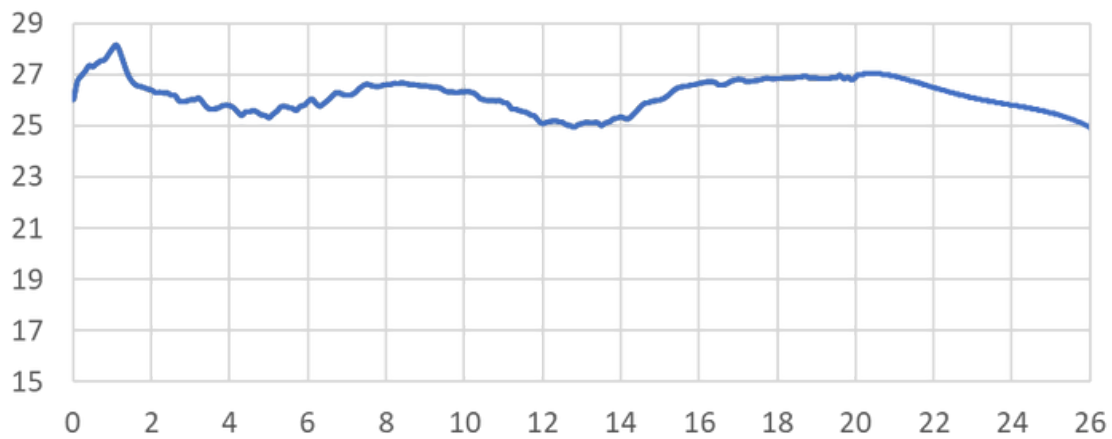
Frequency range
100 kHz to 20 GHz



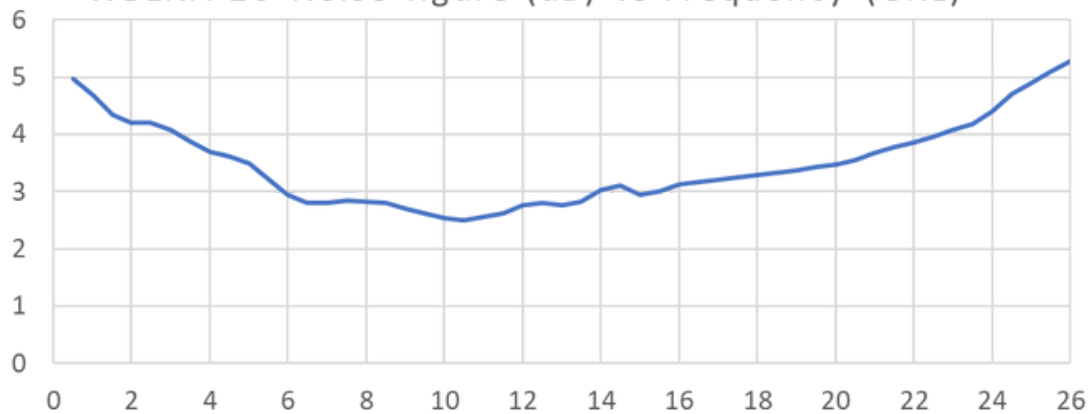
TYPICAL DATA FOR WBLNA-26 AMPLIFIERS

Frequency range
100 kHz to 26.5 GHz

WBLNA-26 Gain (dB) vs Frequency (GHz)



WBLNA-26 Noise figure (dB) vs Frequency (GHz)



TYPICAL DATA FOR WBLNA-28 AMPLIFIERS

Frequency range
2 GHz to 28 GHz

