

# Broadband low noise amplifier

# BBA1LF-sma

## 5kHz to 50MHz

### Features

- PCB sub assembly
- very flat gain from 5kHz to 50MHz, 50 ohm
- high common mode power port rejection
- 11v – 15v DC with reverse polarity protection

### Applications

- VLF through HF low noise amplifier with VHF and up rejection
- use with splitter for distribution to multiple receivers

### Electrical specification at 20°C

model	Frequency (MHz)		Gain (dB)	Noise figure (dB)	Gain flatness (±dB)	-1dB compression (dBm)	DC input isolation to RF output port* (dB)	DC power	
	min	max						V	mA
BBA1LF-sma	0.005	50	>20	<3.5 (10 ... 50MHz)	<0.4	>+12	>80	+11 to 15	<35

\* 50 ohm source

### RF Design

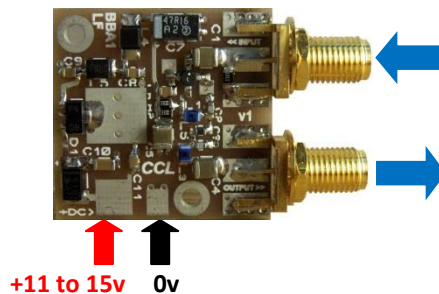
35 Highfield Way, North Ferriby, East Yorkshire, HU14 3BG, UK.

Application notes available at [www.rfdesignuk.com](http://www.rfdesignuk.com)

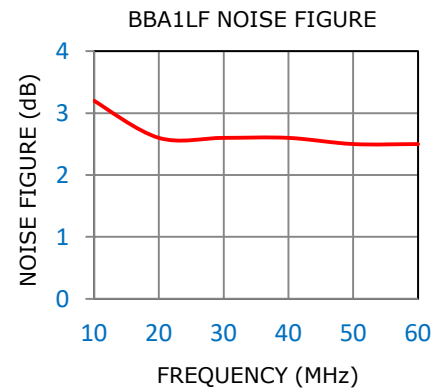
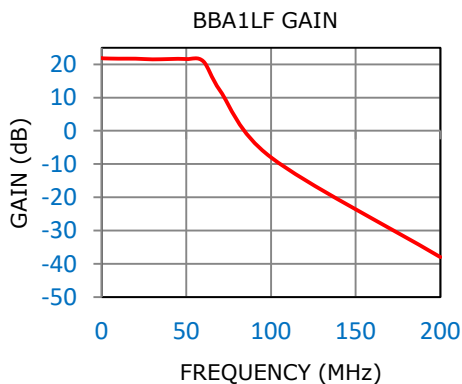
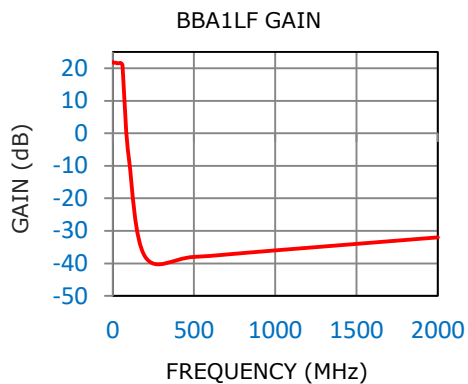
## Maximum ratings

Storage temperature	-30°C to +70°C
Operating temperature	-10°C to +50°C
DC Voltage	+16.0V
Input port power	+20dBm

PCB dimensions: 30mm by 30mm



Typical measured performance from production sample:



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