

Very low noise amplifier

SBA430-sma

420MHz to 450MHz

Features

- PCB sub assembly, providing a 'golden sample' reference
- solid 0.5dB noise figure with no production adjustments
- 2 stages provide high gain with stable, well defined input match
- filters for high out of band rejection, 100mW input tolerance (in-band)
- 11v – 15v DC, reverse protection, direct or using on board bias tee

Applications

- 70cm band terrestrial and EME system development tool
- 'standard' NF reference for your own LNA development, in system and antenna comparisons

Electrical specification at 20°C

model	Frequency (MHz)		Gain (dB)	Noise figure (dB)	Input return loss (dB)	-1dB compression typical (dBm)	O/P IP3 (dBm)	DC power	
	min	max						V	mA
SBA430	420	450	>32	<0.5	>10dB	+13	+25	+11 to 15	<110

Continental Compliance Ltd

Registered in England and Wales No 02856093

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

Telephone +44 (0)1482 631558

Application notes available at www.g8fek.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: 55mm by 30mm (excluding connectors)

Trace A

Log 5.00 dB/div
Ref -6.000 dBm

SBA430 VLNA

-40dBm input

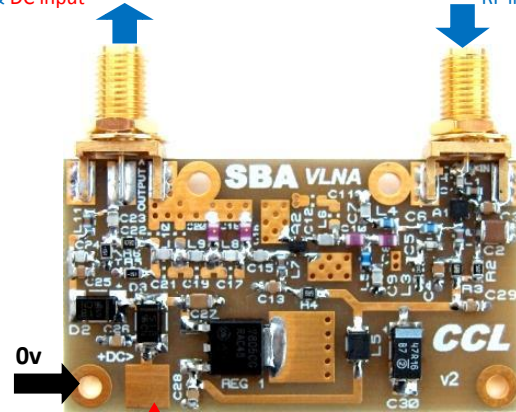
Gmax = 34dB



Center
432.00 MHz
Span
800.00 MHz
RBW 3.0 MHz
VBW 1.0 MHz
Sweep Time
20.00 msec
AT 10 dB
Peak

RF output & DC input

RF input



0v

+11 to 15v*

* use the supplied 22R 1W resistor in series with the positive supply.

<< Typical measured performance from production sample

Continental Compliance Ltd

Registered in England and Wales No 02856093

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

Telephone +44 (0)1482 631558

Application notes available at www.g8fek.com