

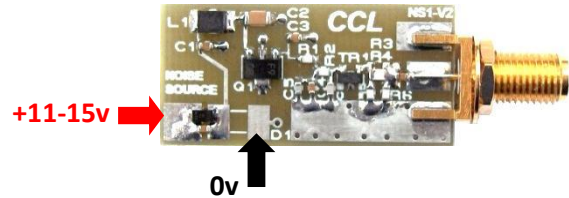
# Receiver sensitivity test source

# RXGen

## 2MHz to 2400MHz

### Features

- precision noise source with flat output against frequency
- use supplied graphs to determine the sensitivity of your receiver
- covers all ham bands from top band through 2.3GHz
- 11v – 15v DC drive with reverse polarity protection
- stable reference source for your experiments, 10dB ENR +/-0.5dB
- excellent VSWR noise on or off, <1.15:1 across the operating band



### Applications

- amateur radio and radio astronomy noise figure measurements (+/-0.5dB)
- HF to microwave receiver sensitivity measurements

Electrical specifications at 20°C

model	Frequency (MHz)		ENR (dB)		50 Ω VSWR	DC power	
	min	max	min	max	max	Volt	Current mA max
RXGen	2	2400	9.5	10.5	1.15:1	11.0 - 15.0	9.0

### RF Design

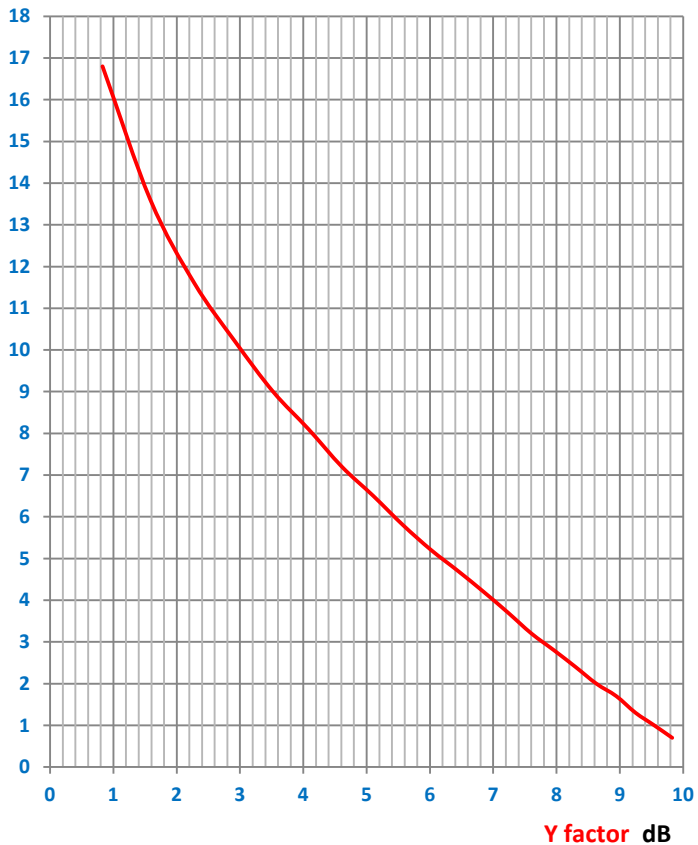
Highfield Way, North Ferriby, East Yorkshire. HU14 3BG, UK.

RXGen application notes available at [g8fek.com](http://g8fek.com)

RXGen Rev 2A5

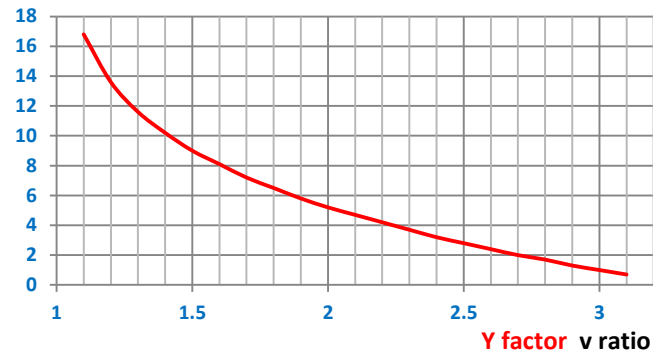
NF dB

RXGen - NF & Y factor (dB)



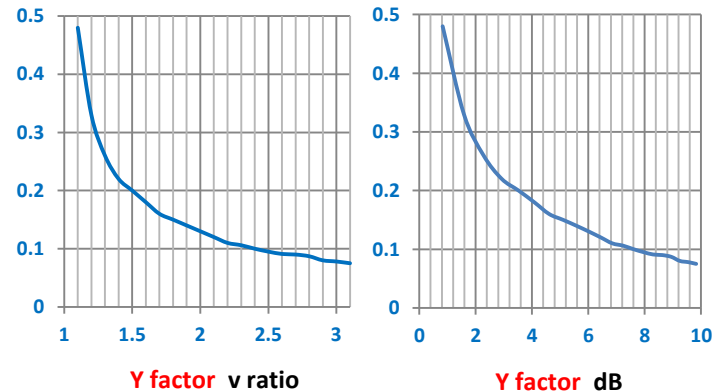
NF dB

RXGen - NF & Y factor (voltage ratio)



RXGen - uV PD for 10dB S/N in 2.4kHz

uV PD



## RF Design

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