

# 50 ohm broadband splitter and bias tee

**BBS**

5MHz to 2500MHz

## Features

- PCB sub assembly with high quality SMA bulkheads
- output ports isolation
- 200mA bias tee with short circuit protection
- exceptional DC port to RF port isolation
- 500mW power handling

## Applications

- antenna distribution for multiple receivers
- remote LNA power feed with the benefit of high power supply noise rejection

### Electrical specifications at 20°C

| model | Frequency (MHz) |      | Through loss (dB) |     | DC port isolation (dB) | Output port isolation (dB/MHz) | 50 Ω VSWR (:1) in port / out ports | DC port |                |
|-------|-----------------|------|-------------------|-----|------------------------|--------------------------------|------------------------------------|---------|----------------|
|       | min             | max  | min               | max | min                    | min                            |                                    | V max   | Current mA max |
| BBS   | 5               | 2500 | 3.5               | 5.5 | 50                     | 20/100 16/2000                 | 2.6 / 2.1                          | 30      | 200            |

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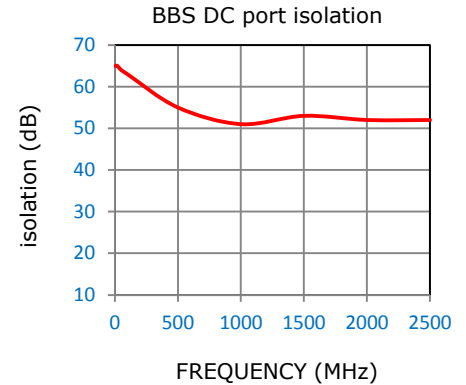
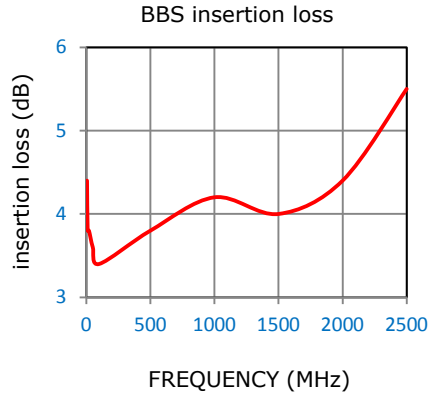
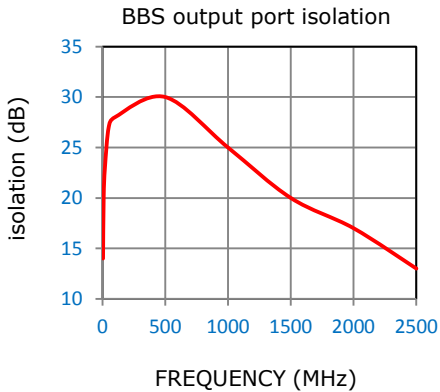
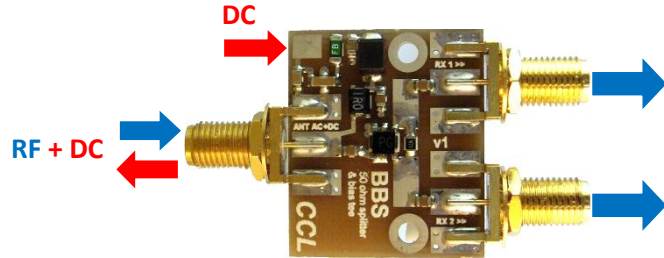
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Application notes available at [www.rfdesignuk.com](http://www.rfdesignuk.com)

## Maximum ratings

|                            |                 |
|----------------------------|-----------------|
| Storage temperature        | -30°C to +70°C  |
| Operating temperature      | -10°C to +35°C  |
| DC Voltage RF output ports | +/-50.0V        |
| DC Voltage bias port       | +/-30.0V        |
| DC current bias port       | 200mA           |
| RF power                   | +27dBm any port |

PCB dimensions: 30mm by 25mm excluding SMA output sockets.



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