

DC4000 Series Downconverter

Available C, X and Ku bands

- The DC4000 is a Downconverter available with a number of input frequencies, converting to 70 or 140 MHz IF. The high stability, low phase noise synthesised frequency conversion is ideal for Digital or Analogue signals.
- User friendly front panel operation
- RS485/RS422 remote control
- Programmable presets
- Low phase noise
- CE mark



Specification

FREQUENCY RANGES

Input

C-Band Version

3.4 to 4.3 GHz

X-Band Version

7.25 to 7.75 GHz

Ku-Band version

10.95 to 12.75 GHz

Output Range

70 / 140 MHz \pm 20 MHz

(option: 140 MHz \pm 40 MHz)

Frequency Step Size

Synthesised in 125 KHz steps

Frequency Sense

Non-inverting

Frequency Stability

$\pm 2 \times 10^{-8}$

GAIN

Output Power Level

+10 dBm @ 1 dB compression

Gain Adjustment

+10 to +50 dB min. in 0.1 dB steps

Gain Variation

± 0.35 dB any 40 MHz

± 1 dB full band

± 0.25 dB over 24 hours at constant temperature

Group Delay Variation

4 nS max. any 36 MHz - linear & parabolic

1 nS max. ripple

SSB Phase Noise

To IESS 308/309

Spurious

Modulated

-65 dBc max.

Noise Figure

15 dB max.

Temperature Range

1U Chassis

0 to +50°C operating

-40 to +80°C storage

PHYSICAL

Size

1RU chassis by 550 mm deep

Weight

<9 Kg approx.

Input connector

50 Ω SMA female

Input Return Loss

18 dB min.

Output Connector

75 Ω TNC (BNC adaptor supplied)

Output Return Loss

20 dB min.

POWER

Operating Voltage

100/120/200/240 AC \pm 10%

Frequency

47 to 63 Hz

Power Consumption

60 W