

UC4000 Series Upconverter

Available C, X, Ku, DBS and Ka bands

Available dual band

- The UC4000 is an Upconverter available with a number of input frequencies, converting from 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 RANGE

INPUT RANGE

70 MHz \pm 20 MHz
(optional 140 MHz \pm 20 MHz
140 MHz \pm 40 MHz)

OUTPUT BANDS

C Band Version

5.85 to 6.65 GHz
(Option 7.025 GHz)

X Band Version

7.9 to 8.4 GHz

Ku Band Version

13.75 to 14.5 GHz
(Optional 12.75 to 14.5 GHz)

DBS-Band Version

17.3 to 18.4 GHz

Ka Band Version

27.5 to 31 GHz in definable sub bands

Frequency Step Size

Synthesised in 125 KHz steps

Frequency Sense

Non-inverting

Frequency Accuracy

200 Hz

Frequency Stability

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

GAIN

Input Power Level

-20 dBm

Output Power Level

+10 dBm

Gain Adjustment

+30 dB min. in 0.1 dB steps

Gain Variation

± 0.5 dB any 40 MHz
 ± 2 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 - 60 dBc
Unmodulated -70 dBm

On / Off Ratio

70 dB

Noise Figure

20 dB max

TEMPERATURE

Operating

0 to +50°C

Storage

-40 to +80°C

PHYSICAL

Size

1RU chassis by 550 mm deep

Weight

5.5 Kg approx

Input connector

75 Ω TNC
(BNC adaptor supplied)

Input Return Loss

23 dB min.

Output Connector

50 Ω SMA female

Output Return Loss

18 dB min

POWER

Operating Voltage

100 / 120 / 220 / 240 Vac \pm 10%

Frequency

47 to 63 Hz

Power Consumption

60 W