

UC4800 L-Band Upconverter

- The UC4800 is an Upconverter converting from 70 or 140 MHz IF to L-band. The high stability, low phase noise synthesised frequency conversion , when combined with the UC3806/3814 wide band block upconverter, provides a flexible frequency conversion / combining system for use over any National or International C-band or Ku-band satellite.
- User friendly front panel operation
- RS485/RS422 remote control
- Programmable presets
- Low phase noise
- CE mark



Specification

FREQUENCY RANGE

Input Range

70 / 140 MHz \pm 20 MHz
option 140 MHz \pm 40 MHz

Output Range

950 to 1750 MHz

Frequency Step Size

Synthesised in 125 KHz steps

Frequency Accuracy

\pm 100 Hz from nominal 25°C

Frequency Stability

\pm 100 Hz over temperature range

Input Power Level

-10 dBm nominal

Output Power Level

-10 dBm

Gain Adjustment

40 dB in 0.1 dB steps

Gain Variation

\pm 0.5 dB/40 MHz
 \pm 0.75 dB over temperature range
 \pm 1.5 dB across the full band
 \pm 0.25 dB any 24 hours

Group Delay Variation

4 nS in any 4 MHz

Ssb Phase Noise

Better than 3 dB below IESS 308/309

SPURIOUS

Modulated

-55 dBc

Unmodulated

-80 dBm

Harmonics

-20 dBc

CONTROL & MONITORING

L-band Monitor

-20 dBc nominal

Status Alarms

Transmit status

Remote Control

RS232 / 422 / 485

Temperature Range

0 to +50°C operating
-40 to +80°C storage

PHYSICAL

Input connector

50 Ω TNC (BNC adaptor supplied)

Output Connectors

50 Ω Type N female

Size

1RU chassis by 550 mm deep

Weight

5.5 Kg approx.

POWER

Operating Voltage

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

Frequency

47 to 63 Hz

Power Consumption

50 W