Block Up-Converter (BUC)

Ku-Band 6W IFL



Company Overview

RevGo designs and manufactures satellite earth station RF from low to medium power. RevGo was founded in 2002 with its headquarters in the Washington DC corridor. RevGo's broad VSAT product line is produced to stringent quality standards using an ISO9001:2015 quality system:

- Block upconverter (BUC)
- Low noise block (LNB)
- Transceiver (Tx/Rx/OMT/filters)
- C-, Ku-, DBS-, Ka-bands
- 2 to 300W output power

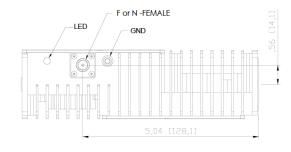
Reliability

- Highly integrated RF technologies (RFIC and GaN)
- · Designed for high volume production
- Linearity optimized for high order modulation and high data rate
- Strict quality control processes resulting in <0.25% field failure rates

Product Features

- Low power consumption 40W (@38.3dBm)
- Compact and light weight (2.4lbs / 1.1kg)
- Fanless
- IFL input power
- Low phase noise (exceeds IESS308/309)
- Rugged design for extreme environments (-40 to +60°C)

Mechanical Diagram (Unit: inch (mm))

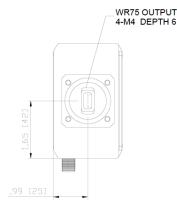


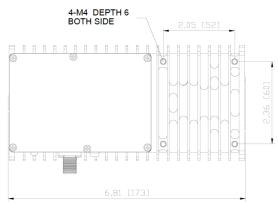


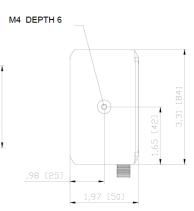


Typical VSAT Applications

- Maritime
- 5G Backhaul
- SNG Vehicle
- Terminals
 - Fixed
 - Portable
 - Transportable







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SPECIFICATIONS

RF Specifications

RF Frequency Standard Extended

14-14.50 MHz 13.75-14.50 GHz

IF Frequency 950-1450 MHz 950-1700 MHz

External Ref 10 MHz, 0 ± 5 dBm

Output Power

 Saturated
 38.3 dBm

 PLIN¹
 37.3 dBm

 PLIN²
 36.3 dBm

 PLIN³
 35.3 dBm

IMD3 (3dB from Psat) - 24 dBc

Small Signal Gain 64 dB

Gain Variation 1 dB p-p / 36 MHz

3 dB p-p / 500 MHz 4 dB p-p / 750 MHz

Gain stability 3 dB p-p

Phase Noise -60 dBc / Hz @ 100 Hz

-70 dBc / Hz @ 1 KHz -80 dBc / Hz @ 10 KHz -90 dBc / Hz @ 100 KHz

Output Spurious -50 dBc

Notes:

PLin¹: -26 dBc regrowth, 1.5 SR

PLin²: -30 dBc regrowth, 1.0 SR (MIL-STD-188-164B, one-carrier)

PLin³: <-25 dBc IMD3 (MIL-STD-188-164B, two-carrier)

Power Supply

Input Power +18 to +36 vDC

Power Consumption

@ Rated Output 40W

Interfaces

RF Output Connector WR75-G (Grooved)

IF Connector N-Type Female

F-Type Female (optional)

RF Output VSWR 2:1

Power IFL

Alarm Status Indicator LED (green/red)

Physical Parameters

Size (inches) 6.8*3.3*1.9 (mm) 173*84*50

Weight (lbs) 2.4

(kg) 1.1

Operating Temperature -40 to +60°C

Humidity 0-100% (condensing) **Altitude** 0-10,000 feet ASL

Part Number / Ordering Information

Contact Information

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