

Block Up-Converter (BUC)

Ku-Band 6W



◆ 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

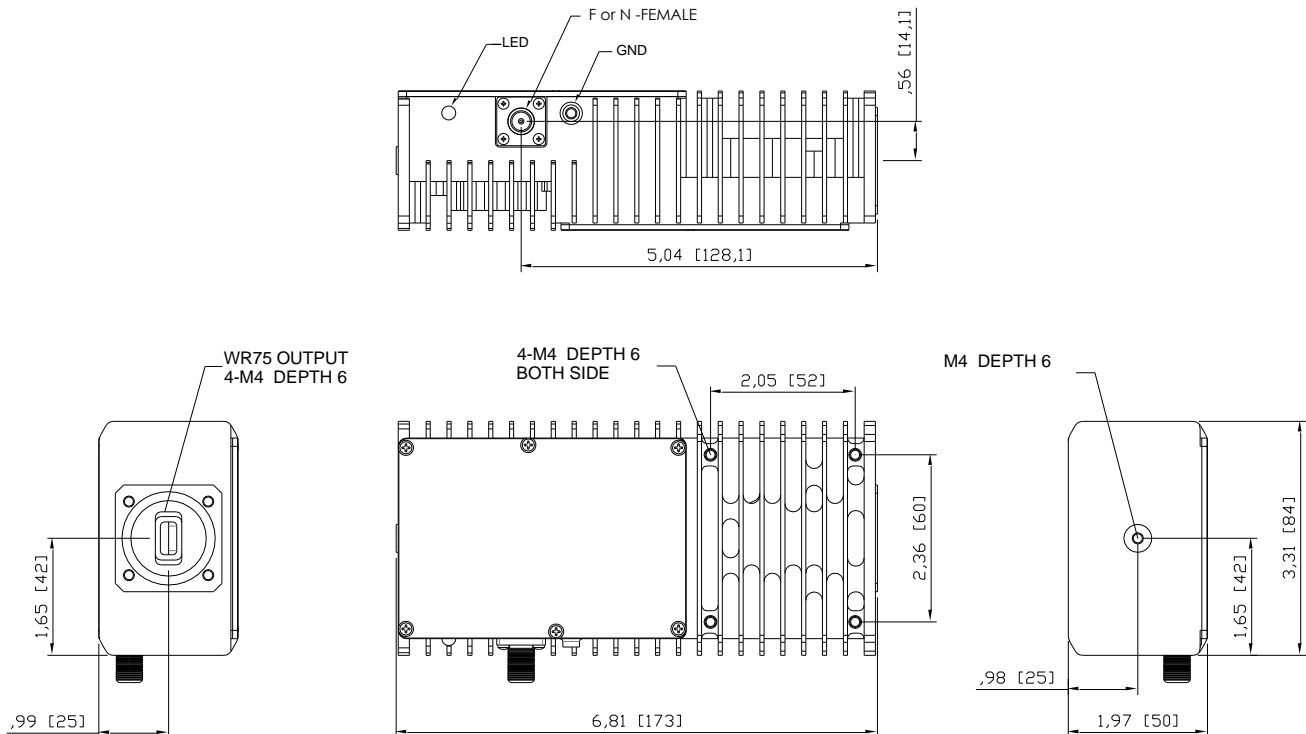
◆ Product Features

- 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)

◆ Typical VSAT Applications

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

◆ Mechanical Diagram (Unit: inch [mm])



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SPECIFICATIONS

◆ RF Specifications

	<u>Standard</u>	<u>Extended</u>
RF Frequency	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	
PLIN ¹	37.3 dBm	
PLIN ²	36.3 dBm	
PLIN	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)

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

◆ Power Supply

Input Power	+18 to +36 vDC via IFL
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

RGUC-U_a006-24NA-B_b

a: Frequency Range

1 = 14.0-14.5 GHz

2 = 13.75-14.5 GHz

b: IF Connector

N = N-Type Female

F = F-Type Female

◆ Contact Information

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