

Block Up-Converter (BUC)

C-Band 5 / 8W



◆ 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

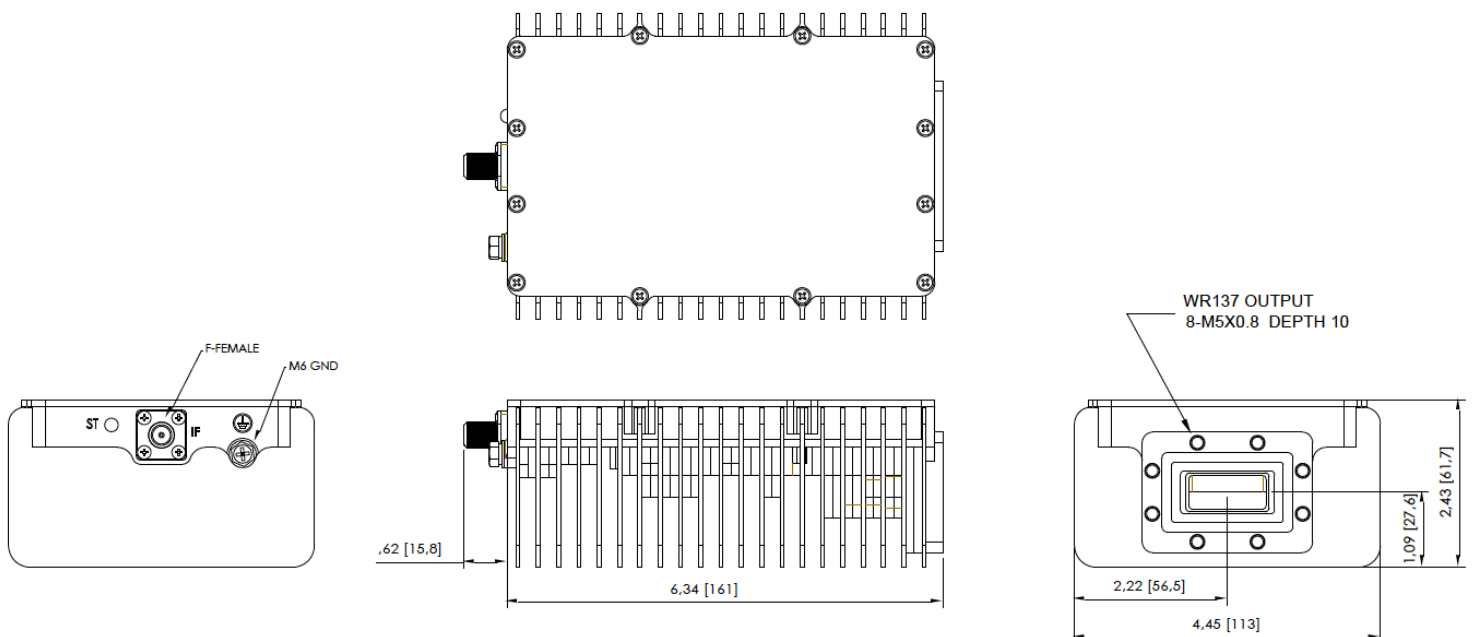
◆ Reliability

- 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

- | | <u>5W</u> | <u>8W</u> |
|---|----------------|----------------|
| • Low power consumption | 45W (@ 37 dBm) | 55W (@ 39 dBm) |
| • Compact and light weight (2.6lbs / 1.2kg) | | |
| • 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

Block Up-Converter (BUC)

C-Band 5 / 8W



SPECIFICATIONS

◆ RF Specifications

RF Frequency	<u>Standard</u> 5.850-6.425 MHz	<u>Extended</u> 5.850-6.725 GHz
IF Frequency	950-1525 MHz	950-1825 MHz
External Ref	10 MHz, 0 ± 5 dBm	
Output Power Rated/Saturated P1dB	<u>5W</u> 37 dBm 34 dBm	<u>8W</u> 39 dBm 36 dBm
IMD3 (3dB from rated)	- 26 dBc	
Small Signal Gain	60 dB	
Gain Variation	1 dB p-p / 36 MHz 4 dB p-p / 575 MHz 5 dB p-p / 875 MHz	
Gain stability	4 dB p-p	
Phase Noise	-65 dBc / Hz @ 100 Hz -75 dBc / Hz @ 1 KHz -85 dBc / Hz @ 10 KHz -95 dBc / Hz @ 100 KHz	
Output Spurious	-55 dBc	

◆ Power Supply

Input Power	+18 to +36 vDC via IFL	
Power Consumption @ Rated Output	<u>5W</u> 45W	<u>8W</u> 55W

◆ Interfaces

RF Output Connector	WR137-G (Grooved)
IF Connector	F-Type Female
RF Output VSWR	2:1
Power/M&C Connector	IFL (no M&C)
Alarm Status Indicator	LED (green/red)

◆ Physical Parameters

Size	(inches) (mm)	6.5*4.4*2.5 164*112*64
Weight	(lbs) (kg)	2.6 1.2
Operating Temperature	-40 to +60°C	
Humidity	0-100% (condensing)	
Altitude	0-10,000 feet ASL	

◆ Part Number / Ordering Information

RGUC – C <u>a</u> <u>b</u> <u>b</u> – 24NA - F	
<u>C</u> : Frequency Band C = C-Band	<u>b</u> <u>b</u> : Output Power 05 = 5W 08 = 8W
<u>a</u> : Frequency Range 1 = 5.850-6.425 GHz 2 = 5.850-7.725 GHz	