

Low Noise Block (LNB) Ka-Band



◆ Company Overview

RevGo designs and manufactures satellite earth station RF from low to high 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 up converter (BUC)
- Low noise block (LNB)
- Transceiver (Tx/Rx/OMT/filters)
- C-, Ku-, DBS-, Ka-bands
- 3 to 1000W output power



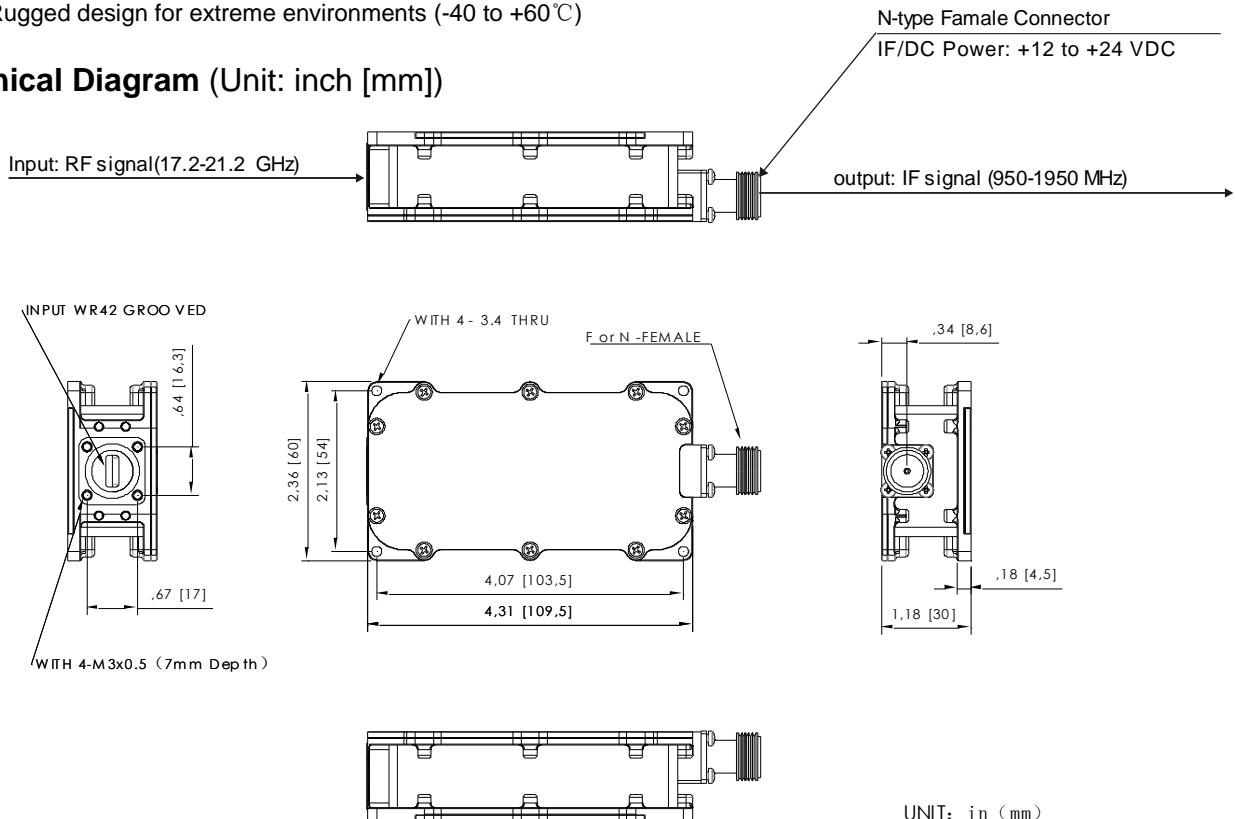
◆ Reliability

- 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

- Single-, and dual-band options (18.2-21.2 GHz)
- High LO stability (PLL design, ± 1 ppm)
- External reference optional
- Low phase noise (exceeds IESS308/309)
- Rugged design for extreme environments (-40 to +60°C)

◆ Mechanical Diagram (Unit: inch [mm])



◆ Typical Applications

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

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SPECIFICATIONS

◆ RF Specifications

Input Frequency	
Single-band	
LO: 17.25 GHz	2: 18.20-19.20 GHz
LO: 18.25 GHz	3: 19.20-20.20 GHz
LO: 19.25 GHz	4: 20.20-21.20 GHz
Dual-band	
LO: 17.25/18.25 GHz	6: 18.20-19.20 & 19.20-20.20 GHz
LO: 18.25/19.25 GHz	7: 19.20-20.20 & 20.20-21.20 GHz
Output Frequency	950-1950 MHz
Noise Figure	1.5 dB (RF at band 2, 3, 6) 1.6 dB (RF at band 4, 7)
LO Stability	+/- 1 ppm External reference (optional)
LO Leakage Level	
- IF connector	-30 dBm max.
- RF connector	-60 dBm max.
Conversion Gain	55 to 65 dB
Output P_{-1dB}	10 dBm min., 15 dBm typ.
Phase Noise	-75 dBc/Hz @ 1 KHz -85 dBc/Hz @ 10 KHz -95 dBc/Hz @ 100 KHz
Image Rejection	30 dBc min.
Output Spurious	-50 dBc max.

◆ Power Supply

Input Power	via IFL connector
- Single-band	12-24 VDC
- Dual-band	12-15 VDC, L-band
(optional)	16-24 VDC, H-band
Power Consumption	5 W

◆ Interfaces

Input Interface	WR42 (Grooved)
RF Input VSWR	2.5:1
Output Interface	N-type female
IF Output VSWR	2.0:1

◆ Physical Parameters

Size (inches)	5.24*2.36*1.18
(mm)	133*60*30
Weight (lbs)	0.93
(kg)	420
Operating Temperature	-40 to +60 °C
Humidity	0-100 % (condensing)
Altitude	0-10,000 feet ASL
Water-proof Class	IP65

◆ Part Number / Ordering Information

RGLN-A _a A _{bb} N-A0	
a: Input Frequency	bb: Reference type
2 = 18.20-19.20 GHz	01 = Internal ref. (+/- 1 ppm)
3 = 19.20-20.20 GHz	EX = External ref.
4 = 20.20-21.20 GHz	
6 = 18.20-20.20 GHz	
7 = 19.20-21.20 GHz	

◆ Contact Information

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