

Low Noise Block (LNB)

Ku-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
- Strict quality control processes resulting in <0.25% field failure rates

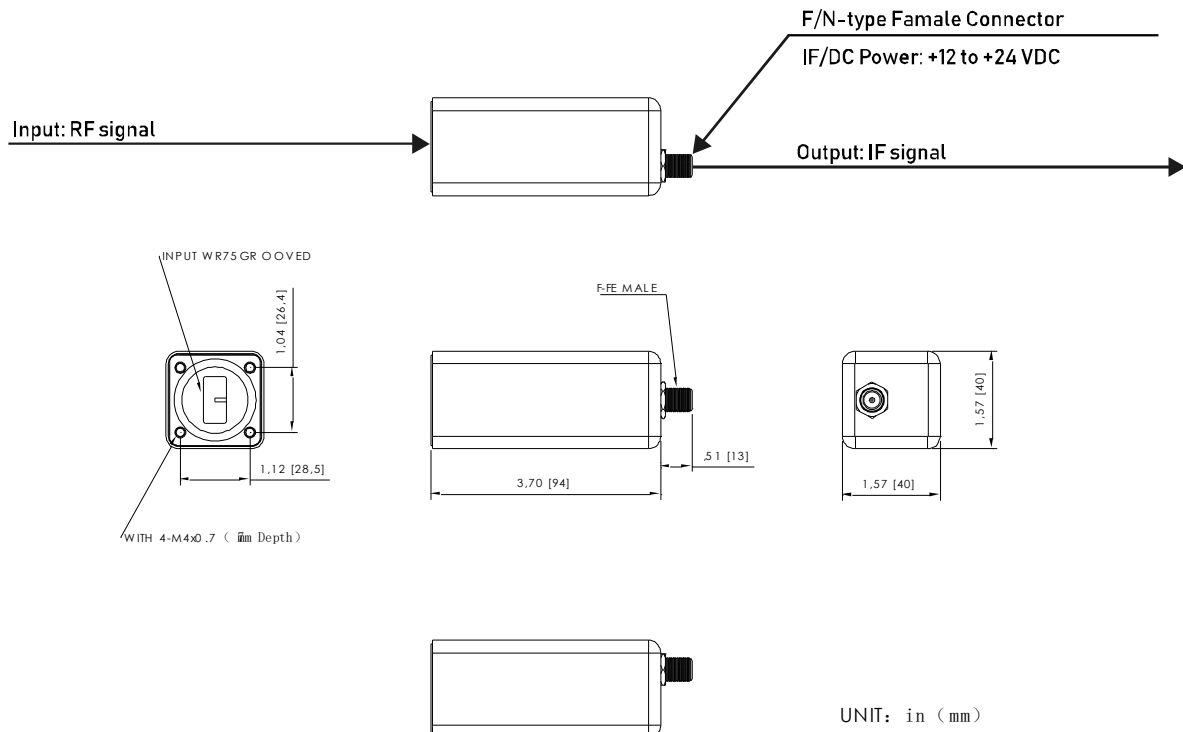
◆ Product Features

- Noise Figure: 0.8 dB typ., 1.0 dB max.
- Single-band and Dual-band optional
Dual-band: *Switched by voltage* or *Switched by 22 KHz*
- PLL design, LO Stability: ± 3 ppm
- Low phase noise
- Rugged design for extreme environments (-40 to +60°C)

◆ Typical Applications

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

◆ Mechanical Diagram (Unit: inch [mm])



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SPECIFICATIONS

◆ RF Specifications

Input Frequency

Single-band

LO: 10.00 GHz 1: 10.95-11.70 GHz

LO: 10.70 GHz 2: 11.70-12.20 GHz

Dual-band

LO: 9.75/10.60 GHz 4: 10.70-11.70/11.70-12.75 GHz

Output Frequency

- Single-band 950-1700/950-1450 MHz

- Dual-band 950-1950 & 1100-2150 MHz

Noise Figure

0.8 dB typ., 1.0 dB max.

LO Stability

+/- 3 ppm

LO Leakage Level

- IF connector -30 dBm max.

- RF connector -60 dBm max.

Conversion Gain

60 dB

Output P1dB

5 dBm min.

Phase Noise

-60 dBc/Hz @100 Hz,

-70 dBc/Hz @1 KHz,

-80 dBc/Hz @10 KHz,

-90 dBc/Hz @100 KHz

Output Spurious

-55 dBc @ -10 dBm (IF output)

◆ Power Supply

Input Power

Via IFL

- Single-band 12-24 VDC

- Dual-band 12-24 VDC

*Switched by voltage

+13 VDC L-Band (12-15 VDC)

+18 VDC H-Band (16-24 VDC)

*Switched by 22 KHz (optional)

OFF L-Band

ON H-Band

Power Consumption

3 W

◆ Interfaces

Input Connector

WR75-G (Grooved)

Input VSWR

2.5:1

Output Connector

F-type female

N-type female (optinal)

Output VSWR

2.0:1

◆ Physical Parameters

Dimensions

inch 3.70x1.57*1.57

mm 94x40x40

Weight

lbs 0.53

g 240

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-Uab03c-A0

a: Input Frequency

1= 10.95-11.7 GHz

2= 11.7-12.2 GHz

4= 10.7-11.7 & 11.7-12.75 GHz

b: Switched type

A= No Switched (Single band)

& By voltage (Dual-band)

T= By 22KHz (on/off) (Dual-band)

c: Power & Output interface

F= F-type (75 Ohm)

N= N-type (50 Ohm)

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