

Low Noise Block (LNB)

Ku-Band EX-series



◆ 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 ISO 9001:2015 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

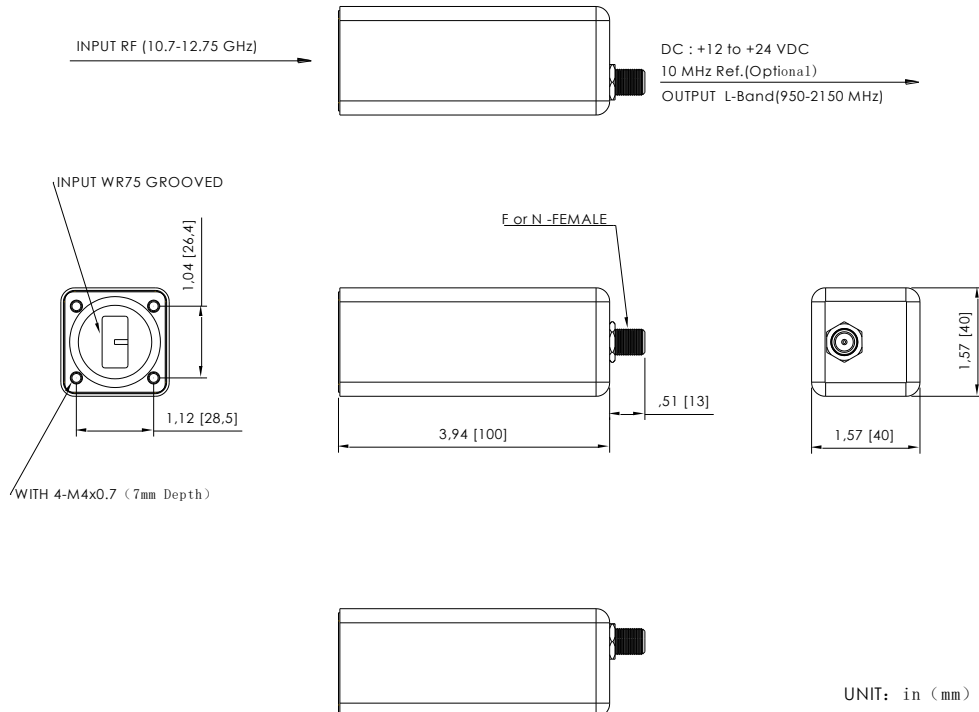
- Noise Figure 0.8 dB
- Single-, and dual-band options
- High LO stability , (PLL design, ± 0.5 ppm)
- External reference optional
- Low phase noise (exceeds IESS308/309)
- Rugged design for extreme environments (-40 to +60 °C)

◆ Typical Applications

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



◆ Mechanical Diagram (Unit: inch [mm])



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SPECIFICATIONS

◆ RF Specifications

IF Frequency

- Single-band
 - 1: 10.95-11.7 GHz
 - 2: 11.7-12.2 GHz
 - 3: 12.25-12.75 GHz
 - Dual-bands
 - 4: 10.7-11.7 GHz & 11.7-12.75 GHz
- * Switched by input volt(+13/+18 VDC)

Output Frequency

- Single-band 950-1700 / 950-1450 MHz
- Dual-bands 950-1950 & 1100-2150 MHz

Noise Figure

0.8 dB max.
0.8 dB typ. / 1.0 dB max. (optional)

LO Stability

Internal ref. +/- 0.5 ppm
External ref. 10 MHz, 0±5 dBm (optional)

LO Leakage Level

- IF connector ≤ -30 dBm
- RF connector ≤ -60 dBm

Conversion Gain

50-60 dB or 55-65 dB (optional)

Output P1dB

≥ 10 dBm

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 @ -10 dBm (IF output)

◆ Power Supply

Input Power	Via IFL
- Single-band	12-24 VDC
- Dual-band	12-15 VDC, L-band (+13 VDC)
*Switched by input voltage	16-24 VDC, H-band (+18 VDC)
Power Consumption	4 W

◆ Interfaces

Input Connector	WR75-G (Grooved)
IF Input VSWR	2.5:1
Output Connector	F-type female
	N-type female (optional)
Output VSWR	2.0:1

◆ Physical Parameters

Dimensions	inch	3.94x1.57x1.57
	mm	100x40x40
Weight	lbs	0.55
	g	250
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-U _a Abbc-dd	
a: Input Frequency	bb: Reference Type
1= 10.95-11.70 GHz	P5= Internal ref. (+/- 0.5 ppm)
2= 11.70-12.20 GHz	EX= External reference
3= 12.25-12.75 GHz	dd: Gain & NF
4= 10.70-11.70 GHz&11.70-12.75 GHz	B0= Gain 60 dB, NF 1 dB
c: Power & Output interface	B2= Gain 60 dB, NF 0.8 dB
F= F-type (75 Ohm)	B3= Gain 55 dB, NF 0.8 dB
N= N-type (50 Ohm)	

◆ Contact Information

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