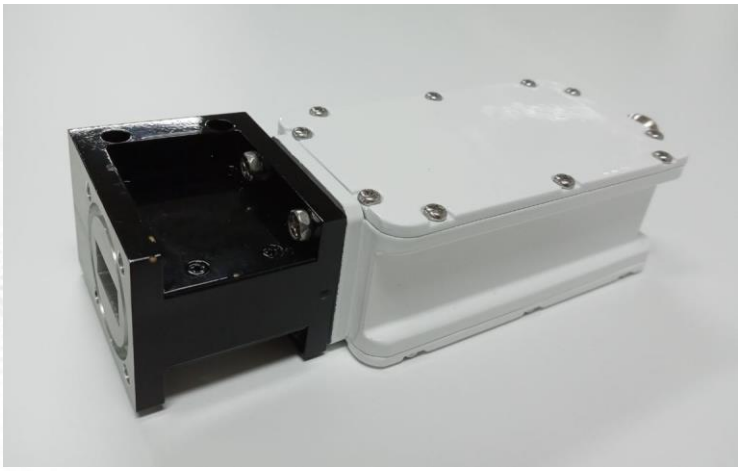
GeoSat Microwave



- *4 bands are switchable*
- *Low power consumption*
- *Higher reliability from integrated design principle*
- *Compact size and light weight*
- *Meet ETSI, FCC standards*

CE

Low Noise Block Ku-Band QUAD PLL+ISO (LNB)

Model: GLKU4LOI

Section	Item	Specification
Band 1	Input (GHz)	10.7 - 11.7
	Output (MHz)	950 - 1950
	L.O (GHz), Switching	9.75 @13 VDC
Band 2	Input (GHz)	10.95 - 11.7
	Output (MHz)	950 - 1700
	L.O (GHz), Switching	10.0 @13 VDC & 22KHz on
Band 3	Input (GHz)	11.7 - 12.75
	Output (MHz)	950 - 2000
	L.O (GHz), Switching	10.75@18 VDC
Band 4	Input (GHz)	12.25 - 12.75
	Output (MHz)	950 - 1450
	L.O (GHz), Switching	11.3 @18 VDC & 22KHz on
Specifications	Noise figure (@+25℃)	1.0 dB max.
	Conversion gain	60 dB typ. (55dB min, 65dB max)
	Gain flatness	5 dBp-p max.
	Gain flatness at -40 to +60℃	6 dBp-p max.
	Gain ripple at per 36MHz, -40 to +60℃	1 dBp-p max.
	L.O stability (over temp.)	+/-5, 10, 25 KHz max.
	Image rejection	40 dBc min. @ Band 1, 2 35 dBc min. @ Band 3 15 dBc min. @ Band 4
	Phase noise	-70 dBc/Hz (@1KHz) -80 dBc/Hz (@10KHz) -95 dBc/Hz (@100KHz
	Output P1dB	+5 dBm min.

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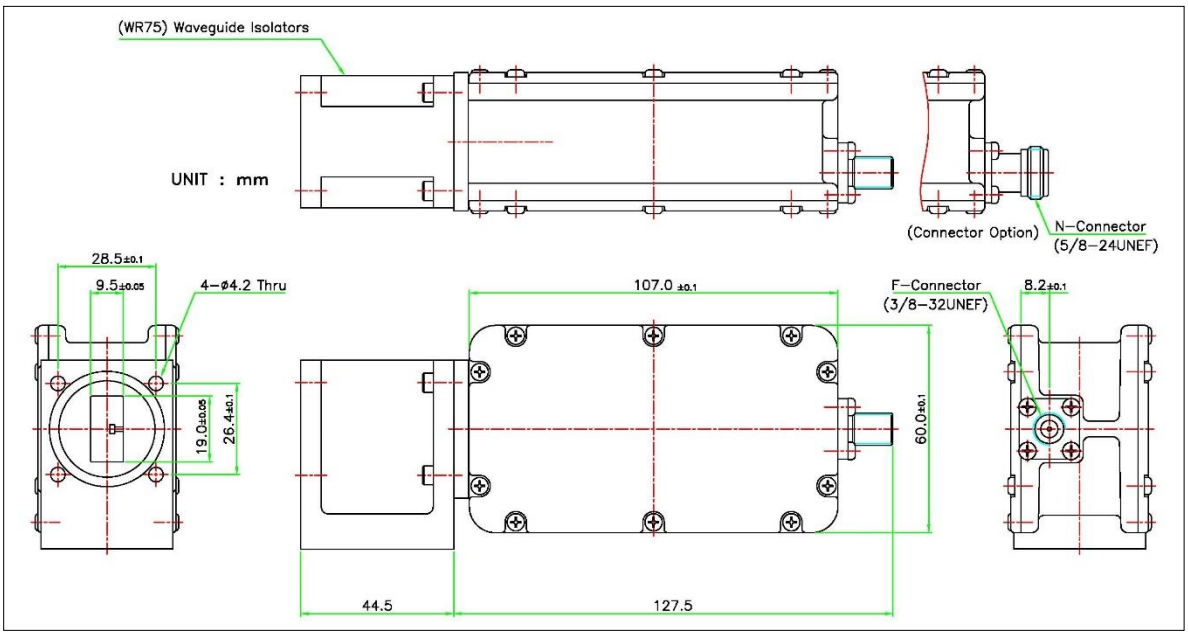
Section	Item	Specification
	Input VSWR	1.3 : 1 max. with W/G isolator
	Output VSWR	2.5 : 1 max
	Input waveguide flange	WR- 75
	Output connector	F, N-type female (option)
	Power supply	+12 to +24V DC
	Operating temperature	-40 to +60℃
	Waterproof	IP 67
	Dimension (exclude connector)	60.0 x 41.6 x 111.5 mm
	Weight	400 g

Mechanical Diagram (Unit: inch (mm))



www.geosatmicrowave.com sales@geosatmicrowave.com