



**GeosSat**  
**Microwave**

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



## Low Noise Block Ka-Band Ext. Ref. 5 LO PLL (LNB)

Model: GLKA5LOEN

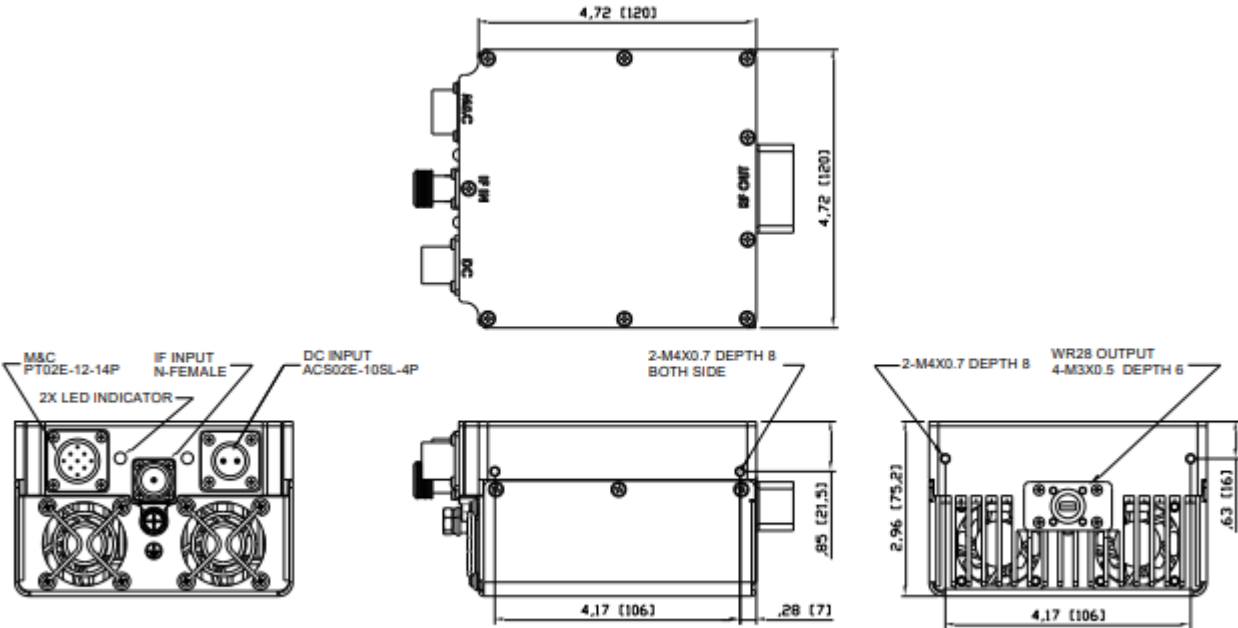
Section	Item	Specification
Band 1	Input (GHz)	17.20 - 18.20
	Output (MHz)	950 - 1950
	L.O (GHz), Switching	16.25 @13+/-1V
Band 2	Input (GHz)	18.20 - 19.20
	Output (MHz)	950 - 1950
	L.O (GHz), Switching	17.25 @13+/-1V /22KHz
Band 3	Input (GHz)	19.20 - 20.20
	Output (MHz)	950 - 1950
	L.O (GHz), Switching	18.25 @18+/-1V
Band 4	Input (GHz)	20.20 - 21.20
	Output (MHz)	950 - 1950
	L.O (GHz), Switching	19.25 @18+/-1V /22KHz
Band 5	Input (GHz)	21.20 - 22.20
	Output (MHz)	950 - 1950
	L.O (GHz), Switching	20.25 @22+/-1V
Specification	Noise figure (@+25°C)	2.7 dB max. (with isolator)
	Input VSWR	1.5 : 1 max. (with isolator)
	Conversion gain	60 dB typ. (55dB min, 65dB max)
	Output VSWR	2.2 : 1 max.
	Gain flatness	4 dBp-p max. (each band)
	Gain ripple (@ 40MHz)	1.5 dBp-p max.
	1dB gain compression point	+10 dBm min.
	Output impedance	50, 75 ohms (option)
	Leakage (@ input port)	-60 dBm max.
	L.O stability (over temp.)	Depends on external reference

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Section	Item	Specification
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	Ext. ref. input freq. & power	10 MHz, -5 to +5 dBm
	Ext. ref. input port	IF output connector
	Phase noise	Depends on external reference
	Image rejection	40 dBc min. @L.O 16.25 GHz
		25 dBc min. @L.O 17.25 GHz
		0 dBc min. @L.O 18.25, 19.25, 20,25 GHz
	Power supply	+12 to +24V DC
	Required current	500 mA max.
	Operating temperature	-40°C to +60°C
	Storage temperature	-40°C to +80°C
	Relative humidity	0% to 100% RH
	Input waveguide flange	WR- 42 grooved
	IF output connector	N-type, F-type female (option)
	Weight	550 g

Mechanical Diagram (Unit: inch (mm))



RG-SPEC-014A3

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