



**GeoSat**  
*Microwave*

- 4 bands are switchable
- Frequency Range 17.2- 22.2GHz
- Built-in Isolator
- 10KHz stability



## Low Noise Block Ka-Band 4 LO PLL (LNB)

**Model: GLKAB4LO**

	Section	Item	Specification
GLKAB4LO (1)	Band 1	Input (GHz)	17.20 - 18.20
		Output (MHz)	950 - 1950
		L.O (GHz), Switching	16.25 @13V
	Band 2	Input (GHz)	18.20 - 19.20
		Output (MHz)	950 - 1950
		L.O (GHz), Switching	17.25 @13V & 22KHz
	Band 3	Input (GHz)	19.20 - 20.20
		Output (MHz)	950 - 1950
		L.O (GHz), Switching	18.25 @18V
	Band 4	Input (GHz)	20.20 - 21.20
		Output (MHz)	950 - 1950
		L.O (GHz), Switching	19.25 @18V & 22KHz
GLKAB4LO (2)	Band 1	Input (GHz)	18.20 - 19.20
		Output (MHz)	950 - 1950
		L.O (GHz), Switching	17.25 @13V
	Band 2	Input (GHz)	19.20 - 20.20
		Output (MHz)	950 - 1950
		L.O (GHz), Switching	18.25 @18V
	Band 3	Input (GHz)	20.20 - 21.20
		Output (MHz)	950 - 1950
		L.O (GHz), Switching	19.25 @18V & 22KHz
	Band 4	Input (GHz)	21.20 - 22.20
		Output (MHz)	950 - 1950
		L.O (GHz), Switching	20.25 @22V

Noise figure	2.0 dB max. (with isolator)
Conversion gain at -40 to +60°C	60 dB typ. (55dB min, 65dB max)
Gain flatness	4 dBp-p max. (each band)
Gain flatness at -40 to +60°C	5 dBp-p max. (each band)
Gain ripple at per 27MHz, -40 to +60°C	1 dBp-p max
L.O stability at -40 to +60°C	±10 KHz max.
Image rejection	40 dBc min. @Band 1
	10 dBc min. @Band 2
	0 dBc min. @Band 3, 4, 5
Phase noise	-70 dBc/Hz (@1 KHz)
	-80 dBc/Hz (@10 KHz)
	-95 dBc/Hz (@100 KHz)
Output P1dB	+10 dBm min.
Input VSWR	3.5 : 1 max.
Output VSWR	2.2 : 1 max.
Input waveguide flange	WR-42
Output connector	F, N-type female (option)
Power supply	+12 to +24V DC
Required current	450 mA max.
Operating temperature	-40 to +60°C
Waterproof	IP 67
Dimension (exclude connector)	66.8 x 38.4 x 117.4 mm
Weight	520 g

[www.geosatmicrowave.com](http://www.geosatmicrowave.com)

[sales@geosatmicrowave.com](mailto:sales@geosatmicrowave.com)

### Mechanical Diagram (Unit: inch (mm))

