



- *Low Current Consumption.*
- *Low Noise Specification*
- *Designed for Fixed or Mobile Applications*
- *Broad Gain Control Range*
- *3 Year GeoSat Product Warranty*

Ka-Band PLL Low Noise Block (LNB)

Model: GLKAUS1721



Section	Item	Specification
Power Requirement	Voltage	+12 ~ +24V DC
	Required Current	400MA max
Input Characteristics	Frequency Range	
	Band 1	17.70 – 18.20GHz
	Band 2	18.20 – 19.20GHz
	Band 3	19.20 – 20.20GHz
	Band 4	20.20 – 21.20GHz
	Input VSWR	3.0 : 1 max.
	Noise Figure @ +25C	2.0 db max.
	Leakage @ Input Port	-60 dBm max.
	Input Waveguide Flange	WR-42
Output Characteristics	Frequency Range	
	Band 1	950 – 1450MHz
	Band 2	950 – 1950MHz
	Band 3	950 – 1950MHz
	Band 4	950 – 1950MHz
	Output VSWR	2.5 : 1 max.
	Gain Flatness	5 dBp-p max. (each band)
	Conversion Gain	60 dB typ. (55dB min, 65dB max)
	Gain Stability (@ 40MHz)	+/- 0.75 dB max.
	Image Rejection	45 dBc min.
	1dB Gain Compression Point	+5 dBm min.
	IF Output Connector	F-Type female, N-type female

Section	Item	Specification	
Local Oscillator	Local Frequency	20.25GHz	
		13V 16.75GHz	
		13V/22KHz 17.25GHz	
		18V 18.25GHz	
		18V/22KHz 19.25GHz	
		L.O. Stability Over Temp	+/- 50KHz max.
	Phase Noise ▼	1kHz	< -70dBc / Hz
		10kHz	< -80dBc / Hz
		100kHz	< -95dBc / Hz
	Image Rejection ▼	40 dBc min.	@L.O 16.75 GHz / 17.25 GHz
10 dBc min.		@L.O 18.25 GHz	
0 dBc min.		@L.O 19.25 GHz	
Mechanical	Dimension (mm)	118 x 68 x 38mm (w/o connector)	
	Weight	600g	
	Painting	White Color	
Operating Temperature / Storage Temperature		- 40°C ~ + 60°C / - 40°C ~ + 80°C	
Relative Humidity		0% ~ 95% RH	

