



**GeoSat**  
**Microwave**

- *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: GLKAPDN25**



Section	Item	Specification	
Power Requirement	Voltage	+12 ~ +24V DC	
	Required Current	300MA max	
Input Characteristics	Frequency Range	21.2 ~ 22.2GHz	
	Input VSWR	2.2 : 1 max.	
	Noise Figure @ +25C	1.5 db max.	
	Leakage @ Input Port	-45 dBm max.	
	Input Waveguide Flange	WR-42	
Output Characteristics	Frequency Range	950 ~ 1950MHz	
	Output VSWR	2.2 : 1 max.	
	Gain Flatness	5 dBp-p max.	
	Conversion Gain	55 dB typ. (50dB min. 62dB max.)	
	Gain Stability (@ per 27MHz)	1 dBp-p max.	
	Image Rejection	45 dBc min.	
	1dB Gain Compression Point	+7 dBm min.	
	IF Output Connector	F-Type female, N-type female	
Local Oscillator	Local Frequency	20.25GHz	
	L.O. Stability Over Temp	+/- 25KHz max.	
	Phase Noise ▼	1kHz	< -60dBc / Hz
		10kHz	< -80dBc / Hz
		100kHz	< -95dBc / Hz
Mechanical	Dimension (mm)	101 x 60 x 45mm (w/o connector)	
	Weight	350g	
	Painting	White Color	
Operating Temperature / Storage Temperature		- 40°C ~ + 60°C / - 40°C ~ + 80°C	
Relative Humidity		0% ~ 90% RH	

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