



**GeoSat**  
**Microwave**

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



## X-Band PLL Low Noise Block (LNB)

**Model: GSLXLN10**



Section	Item	Specification	
Power Requirement	Voltage	+12 ~ +24V DC	
	Required Current	300MA max	
Input Characteristics	Frequency Range	7.25 ~ 7.75GHz	
	Input VSWR	2.2 : 1 max.	
	Noise Figure @ +25C	0.8 db max.	
	Leakage @ Input Port	-45 dBm max.	
	Input Waveguide Flange	WR-112	
Output Characteristics	Frequency Range	950 ~ 1450MHz	
	Output VSWR	2.2 : 1 max.	
	Gain Flatness	4 dBp-p max. (over band & temp.)	
	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	+5 dBm min.	
	IF Output Connector	F-Type female, N-type female	
Local Oscillator	Local Frequency	6.3GHz	
	L.O. Stability Over Temp	+/- 10KHz max.	
	Phase Noise ▼	1kHz	< -75dBc / Hz
		10kHz	< -85dBc / Hz
100kHz		< -95dBc / Hz	
Mechanical	Dimension (mm)	118 x 70 x 47mm (w/o connector)	
	Weight	Approx. 300g	
	Painting	White Color	
Operating Temperature / Storage Temperature		- 40°C ~ + 60°C / - 40°C ~ + 80°C	
Relative Humidity		0% ~ 90% RH	