



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 Dual LO PLL Ext. Ref. AD910X (LNB)

Model: GLKAAD910X

Section	Item	Specification	
Band 1	Input (GHz)	18.20 - 19.20	
	Output (MHz)	950 - 1950	
	L.O (GHz), Switching	17.25 @13 VDC	
Band 2	Input (GHz)	19.20 - 20.20	
	Output (MHz)	950 - 1950	
	L.O (GHz), Switching	18.25 @18 VDC	
Specifications	(Temperature condition for the parameters not specified is at 23±3°C)		
	Noise figure	1.6 dB max.	
	Conversion gain at -40 to +60°C	60 dB typ. (55dB min. 65dB max.)	
	Gain flatness	5 dBp-p max.	
	Gain flatness at -40 to +60°C	6 dBp-p max.	
	Gain ripple at per 27MHz, -40 to +60°C	1 dBp-p max.	
	L.O stability at -40 to +60°C	depends on ext. ref.	
	Image rejection	40 dBc min.	
	Phase noise		-70 dBc/Hz at 1KHz
			-78 dBc/Hz at 10KHz
			-95 dBc/Hz at 100KHz
	Output P1dB	+3 dBm min	
	Ext. ref. input freq. & power	10 MHz, -5 to +5 dBm	
	Ext. ref. input port	IF output connector	
	Input VSWR	2.5 : 1 max.	
	Output VSWR	2.5 : 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)	60.0 x 45.0 x 103.6 mm		
Weight	420 g		

Mechanical Diagram (Unit: inch (mm))

