

Ku-Dual Band PLL LNB

AD500 series : Internal reference
AD500X series : External reference

Model No. & Frequency (Customized frequency available)

Model No.	Band	Input Freq. (GHz)	Output Freq. (MHz)	L.O Freq. (GHz), Switching
AD510(X)	Band 1	10.7 - 11.7	950 - 1950	9.75 @13VDC / or 22KHz off
	Band 2	11.7 - 12.75	1100 - 2150	10.6 @18VDC / or 22KHz on
AD520(X)	Band 1	10.7 - 11.7	950 - 1950	9.75 @13VDC / or 22KHz off
	Band 2	11.7 - 12.75	950 - 2000	10.75@18VDC / or 22KHz on
AD530(X)	Band 1	10.95 - 11.7	950 - 1700	10.0 @13VDC / or 22KHz off
	Band 2	11.7 - 12.75	950 - 2000	10.75@18VDC / or 22KHz on

Technical Specifications

Parameter	Specification	Parameter	Specification
Noise figure	0.9 dB typ. 1.0 dB max.	Ext. input freq. & power	10 MHz, -5 to +5 dBm
Conversion gain	60 dB typ. (55 dB min. 65 dB max.)	Ext. input port	IF output connector
Gain flatness	5 dBp-p max.	Input VSWR	2.5 : 1 max.
Gain ripple at per 36MHz	1 dBp-p max.	Output VSWR	2.5 : 1 max.
L.O stability	Internal : ± 5 , 10, 25 KHz max. External : depends on ext. ref.	Input waveguide flange	WR 75 (with groove)
Image rejection	40 dBc min.	Output connector	F or N-type female
Phase noise	-70 dBc/Hz at 1KHz -80 dBc/Hz at 10KHz -95 dBc/Hz at 100KHz	Power supply	+12 to +24V DC
Output P1dB	+5 dBm min.	Required current	350 mA max.
		Operating temperature	-40 to +60°C
		Waterproof	IP 67
		Dimension	60.0 x 41.6 x 111.5 mm
		Weight	380 g

How to modeling

AD5 10 X 2 F 25

LO Stability	Blank : External, 05 : ± 5 KHz, 10 : ± 10 KHz, 25 : ± 25 KHz
Connector	F : F-type female, N : N-type female
Switching	Blank : Voltage, 2 : 22KHz tone switching
10MHz Reference	Blank : Internal, X : External reference
Frequency Bands	Refer to the above Model No.

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Mechanical Diagram

