

Data Sheet

Ka-Band 25.5 – 27.0GHz Low Noise Amplifier (LNA) - P/N 3220-02 – Version LPH

LNA for Satellite Ground Stations

Callisto has more than 25 years of experience producing low noise amplifier systems for satellite ground stations, and has launched its next generation of LNA products for Ka-Band.

- Available with waveguide input
- State-of-the-art RF low noise and stability performance
- Optimised for next generation Earth Observation applications

Performance

Callisto strives to provide the best level of performance across a number of critical parameters such as noise factor / noise temperature, Gain stability and Input Return Loss.

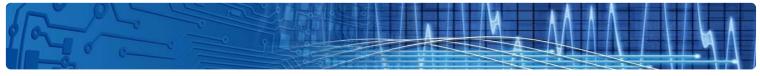
	LNA at 23°C (25.5–27.0GHz)
Noise Temperature (K)	125Kmax (120K typical)
Noise Figure	1.55dB max (1.5dB Typical)

RF Specifications		
Frequency Range	25.5 – 27.0GHz	
Gain	44dB min	
Gain Flatness (Full Band)	3.0dBpp max	
Gain Flatness (per 40MHz)	0.1dBpp max	
Gain Variation	0.03dB/°C (-40 to +60°C)	
Group Delay Variation	±40ps (full band)	
Input VSWR	1.5:1 worst case	
Output VSWR	1.5:1 max	
P1dB	+17dBm min	
Max Input Power	OdBm	
Output IP3	+27dBm	

Key Features Wave-guide input LNA Housing

- Noise Figure of = 1.55dB max. (or 125K) between 25.5 – 27.0GHz at 23°C
- Waveguide input / coax output
- Earth Observation applications
- European Source

Physical Specifications & Interfaces	
Overall Dimension	65 x 55 x 30mm
Weight	<120g
Temperature Range	-40°C to +60°C
Waveguide Leak rate	0.1mbar.L/s
Mounting	2 x M2.5
Material/Finish	Alodined Aluminium (Paint as an Option)
RF Input	WR34 – UBR260
RF Output	2.92mm coax-F
DC Connector	DBEU 102 A051-130
DC Power	+7V to +30V DC +12V/ 150mA nominal Reverse Voltage Protection
DC Cable	1m long



The specifications provided in this data sheet are preliminary and intended as a guide only. Callisto reserves the right to modify specifications without notice.

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