

NWSLN2730-00

Ka-band Low Noise Amplifier

SPACE Products



NANOWAVE
Technologies Inc.

Revision 2.1

GENERAL DESCRIPTION

The NWSLN2730-00 is a LEO heritage Ka-band LNA module with operating frequency range 27.0 – 30.0 GHz and proven LEO heritage. NANOWAVE has mass-production capabilities and a track record of more than 1,900 LNAs in LEO.



FEATURES

- Broadband performance: 13.0 – 16.0GHz
- 46dB Small Signal Gain
- 2.3dB Noise Figure

APPLICATIONS

- Payloads for LEO
- SATCOM
- Aerospace

ELECTRICAL PARAMETERS @ +25°C

Parameter	Unit	Min	Typ	Max	Remarks
Frequency Range	GHz	27.0		30.0	
Small Signal Gain	dB		46.0		
Gain Flatness	dB		0.5		
Noise Figure	dB		2.3		
Input Return Loss	dB		-15		
Output Return Loss	dB		-15		
Input Voltage	V		2.0		
DC Power	W		0.54	0.64	

MECHANICAL and ENVIRONMENTAL PARAMETERS

Parameter	Unit	Min	Typ	Max	Remarks
Operating Temperature	°C	-25		+65	
Storage Temperature	°C	-55		+125	
Input RF Interface			WR34		
Output RF Interface			SMK		
Size (L, W, H)	mm		63(L) x 22(W) x 12(H)		
Weight	Gram		37		

Notes: The outline of this unit is fully customizable. Arbitrary shapes are possible to accommodate form-fit functionality.

Additional features:

- Hermetically sealed package
- All plating and painting is RoHS compliant

For further information please contact NANOWAVE Technologies Inc. at sales@nanowavetech.com , or call at (+1) 416-252-5602

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