

GENERAL DESCRIPTION

The NWSLN2730-00 is a Ka-band LNA module operating in the frequency range 27.0 – 30.0GHz (customizable).

NANOWAVE has mass-production capabilities and a track record of more than 1,900 LNAs in LEO.



FEATURES

- Broadband performance: 27.0 – 30.0GHz
- 45dB Small Signal Gain
- 1.7dB Noise Figure

APPLICATIONS

- SATCOM for LEO / MEO / GEO
- Aerospace

ELECTRICAL PARAMETERS @ +25°C

Parameter	Unit	Min	Typ	Max	Remarks
Frequency Range	GHz	27.0		30.0	
Small Signal Gain	dB		45.0		
Gain Flatness	dB		±0.75		
Noise Figure	dB		1.7		
IP1dB	dBm		-32.5		
OIP3	dBm		18.5		@ Pin = -50dBm
Input Return Loss	dB		-14		
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: Customized shapes and outlines of packaging, to enable customer Form-Fit Functionality requirements.

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