

NWSPA1720-36

K-band Solid State Power Amplifier

SPACE Products



NANOWAVE
Technologies Inc.

Revision 2.2

GENERAL DESCRIPTION

NWSPA1720-36 is a LEO heritage K-band SSPA module with operating frequency range 17 – 20.5GHz. Pout is +36dBm CW, with proven LEO heritage.

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



FEATURES

- Broadband performance: 17.0 – 20.5GHz
- 43dB Small Signal Gain
- +35dBm P1dB

APPLICATIONS

- SATCOM for LEO / MEO / GEO
- Aerospace

ELECTRICAL PARAMETERS @ +25°C

Parameter	Unit	Min	Typ	Max	Remarks
Frequency Range	GHz	17.0		20.5	
Small Signal Gain	dB		43		
Gain Flatness	dB		1		
P1dB	dBm		+35		
Input Return Loss	dB		-15		
Output Return Loss	dB		-15		
DC Power Consumption	W		20.25		@25degC

MECHANICAL and ENVIRONMENTAL PARAMETERS

Parameter	Unit	Min	Typ	Max	Remarks
Operating Temperature	°C	-25		+65	
Storage Temperature	°C	-55		+125	
Input RF Interface			SMA		
Output RF Interface			WR51		
Size (L, W, H)	mm		93(L) x 29(W) x 12(H)		
Weight	gram		55		

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.