

# NWSPA1720-36

17 – 20.5GHz  
K-Band SSPA

## 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](mailto:sales@nanowavetech.com), or call at (+1) 416-252-5602.

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