NDNM02002

2.7-3.5GHz GaN Power Amplifier Module

► *Features*

- Frequency range: 2.7-3.5 GHz
- Output power: 41dBm
- Power Gain: 24dB
- Power added efficiency:40%
- VSWRin: 2
- Bias: 28V/-2.4V
- Package: metal-ceramic
- Dimensions: 21mm×13mm×5.5mm

► *General Description*

The NDNM02002 is a high gain amplifier module designed using 0.25um GaN HEMT process. The amplifier module operates from 2.7 to 3.5GHz and typically provides 24dB of gain, 41dBm of saturated power and 40% of PAE by drain source voltage of 28V and gate source voltage of -2.4V. The NDNM02002 is ideally suited for many applications including communication systems, RADARs and electronic warfare.

► *Absolute Maximum Ratings*

Symbol	Parameter	Value	Notes
Vds	Drain source Voltage	+32V	
Vgs	gate source Voltage	-5V	
Tch	Channel Temperature	225 °C	
Pd	DC power	40W	
Pin	input power	21dBm	
Tm	Mounting Temperature	300 °C	1min, N_2 Protecting
Tstg	Storage Temperature	-55～85 °C	

Any of the stresses above the listed ratings may cause permanent damage.

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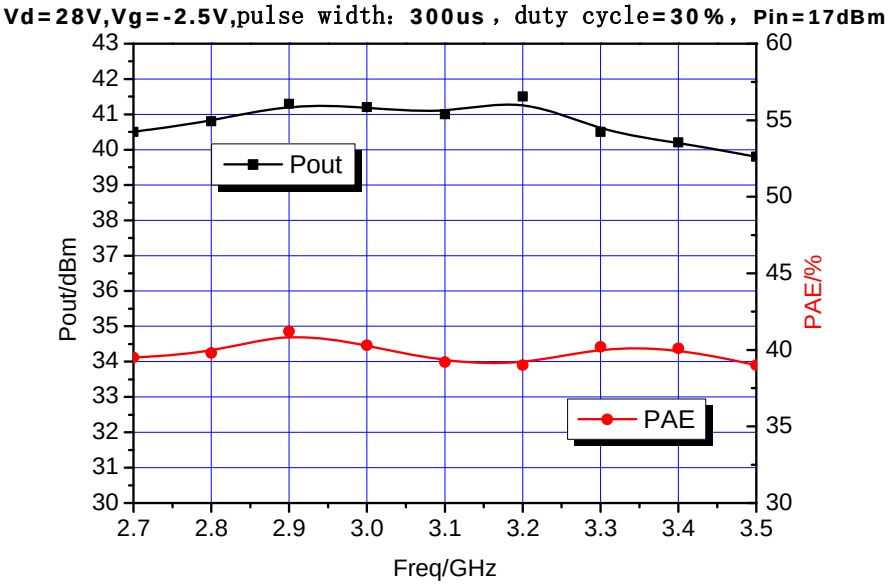
► *Specifications (T_A=25 °C)*

Symbol	Parameter	Conditions	Value			Units
			Min	Typical	Max	
Pout	Saturated Power	F=2.7-3.5GHz Vd=28V,（pulse width：300us ， duty cycle=30%）Vg=-2.5V, Pin=17dBm		41		dBm
Gp	Power Gain			24		dB
ηadd	PAE			40		%

► *Typical Performances (T_A=25 °C)*

Saturated Output Power and PAE



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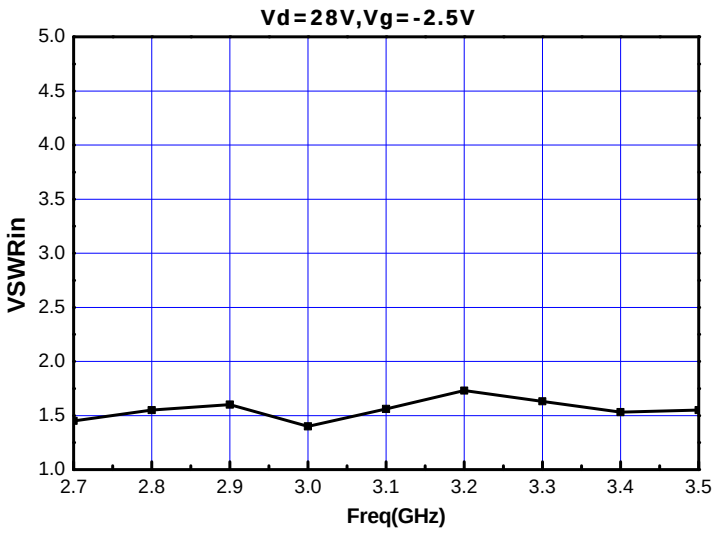
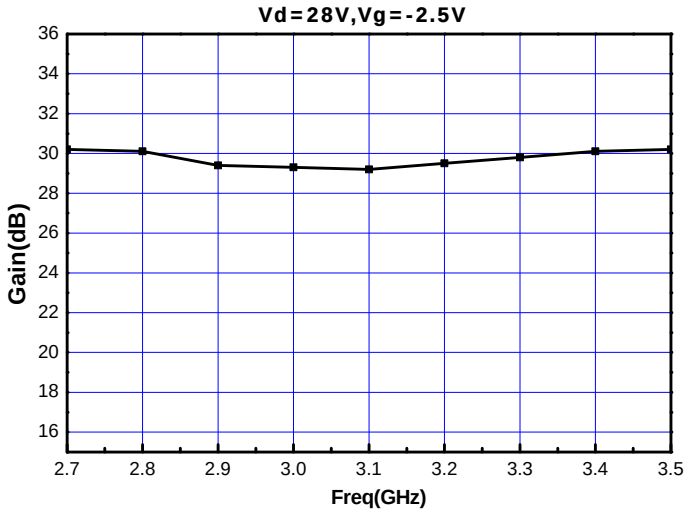
VSWR



Linear Gain



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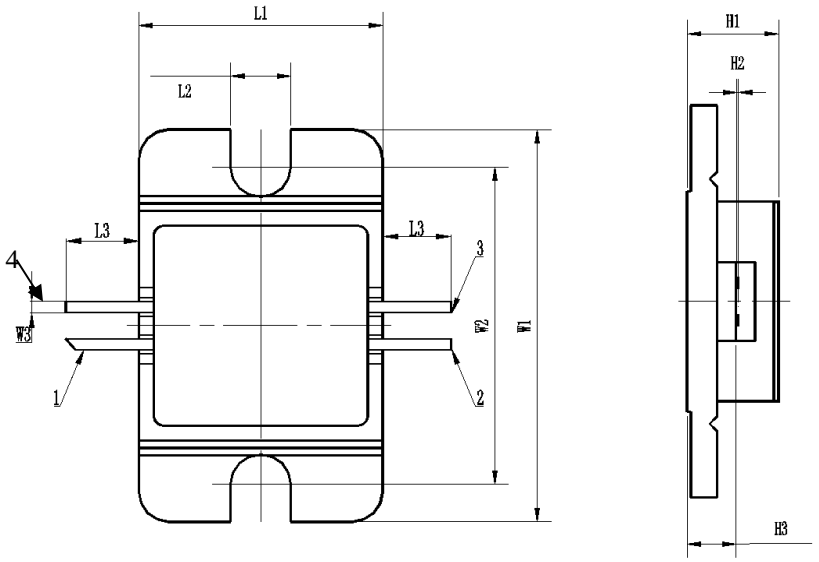
► *Outline Drawing (Units: mm)*



1 —RF input 2 —RF output 3 — Drain power supply 4- gate power supply

Symbol	Value	
	Min	Max
L1	13.0	13.2
L2	3.2	3.4
L3	2.0	-
W1	21.0	21.3
W2	17.0	17.3
W3	0.6	0.8
H1	4.6	5.5
H2	0.10	0.13
H3	2.6	2.9

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