

YHG-26-35**SL3024VS: 900-2000MHz**

SL3024VS Class AB 900-2000MHz

October 16 , 2026

Introduction

This amplifier is designed with Innegration 50V GaN transistor.

Demo and Transistor

Frequency band	: 900-2000MHz
Application	: Multi Market
Configuration	: Class AB
Test Signal	: CW
Transistor	: SL3024VS
Date code	: 243314
PCB	: RT6006 , Dk=6.15 , 20mil ; Rogers 4350 20mil

The amplifier has been characterized under the following conditions:

- Network Analyzer plots for gain and IRL.
- The output power measurement using CW .

Note: The PA is tested with a supply voltage of $V_{DS} = 48V$, $I_{dq} = 250mA$, all measurements unless otherwise noted.

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Test Results

2. Summary @ Bench 2(Chengdu)

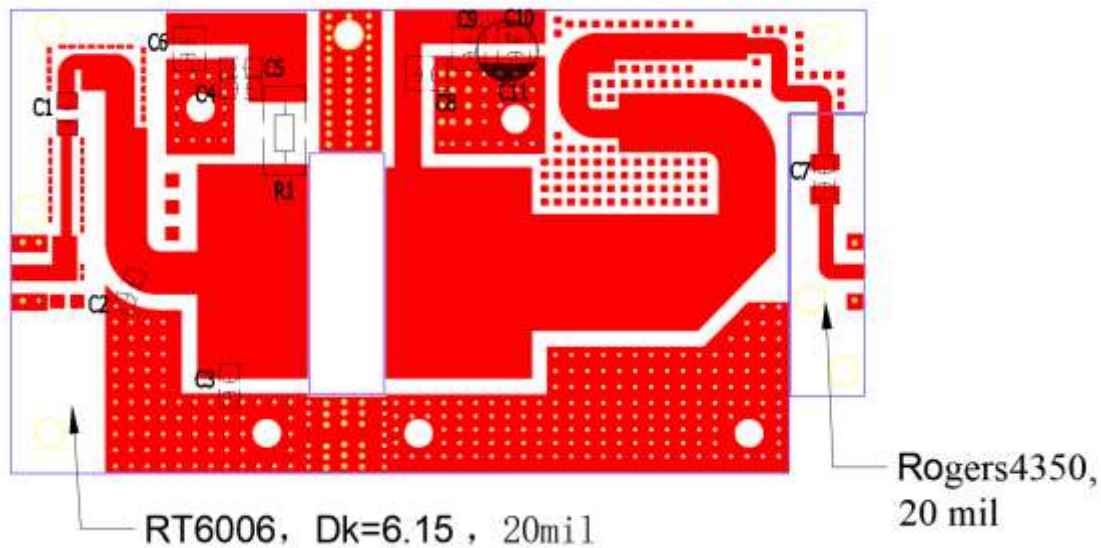
(1) Test Condition

Signal mode : CW, Frequency : 900-2000MHz

$V_{gs} = -3.35V$, $V_{ds} = 48V$, $I_{dq} = 250mA$

Freq(MHz)	Pin(dBm)	Pout(dBm)	Pout(W)	IDS(A)	Gain(dB)	Eff(%)	2th	3rd
900	41.07	53.77	238.23	7.07	12.7	70.20	-24.00	-13.00
1000	41.37	53.77	238.23	7.41	12.4	66.98	-30.00	-13.20
1100	40.65	53.85	242.66	8.17	13.2	61.88	-24.60	-13.00
1200	41.65	53.7	234.42	9.6	12.1	50.87	-22.60	-17.20
1300	41.5	54.2	263.03	9.45	12.7	57.99	-18.40	-19.70
1400	42.05	54.15	260.02	8.31	12.1	65.19	-16.40	-21.50
1500	41.69	53.75	237.14	7.6	12.1	65.00	-17.60	-21.70
1600	41.62	53.76	237.68	8.21	12.1	60.31	-19.60	-19.70
1700	41.75	53.81	240.44	8.67	12.1	57.77	-24.20	-19.90
1800	40.88	53.68	233.35	8.8	12.8	55.24	-30.00	-20.70
1900	40.82	53.85	242.66	8.66	13.0	58.38	-26.00	-23.00
2000	41.33	53.63	230.67	8.07	12.3	59.55	-24.60	-22.70

BOM of Test Circuit



Component	Description	Suggested Manufacturer
C11	470uF	
C6,C8,C10	10uF	
C1	30Pf/ MQ300805	
C2	1Pf/ MQ300805	
C3	2Pf/ MQ300805	
C4	20pF/ MQ300805	
C5	200pF/ MQ300805	
C7	30pF/ MQ301111	
C9	20pF/ MQ301111	
R1	51ohm/1210	Chip Resistor
PCB	RT6006, Dk=6.15, 20mil ; Rogers 4350 20mil	