

Product Description

Innotion's YPM484034H is a wideband power amplifier module. The YPM484034H operates from 100MHz to 4.8GHz and typically provides 2.5-watt saturated output power with large-signal gain of 33dB.



Features

- Operating Frequency 100MHz to 4.8GHz
- $P_{out}=2.5\text{-watt}$ @ $P_{in}=3\text{dBm}$, $V_{DD}=28\text{V}$, $V_{CC}=5\text{V}$
- Large Signal Gain=33dB @ $P_{in}=0\text{dBm}$, $V_{DD}=28\text{V}$, $V_{CC}=5\text{V}$
- Quiescent Current of Drain, $I_{dq}=190\text{mA}$ @ $V_{DD}=28\text{V}$, $V_{CC}=5\text{V}$

Absolute Maximum Ratings

Parameter	Rating	Unit
Drain Voltage, V_{DD}	+40	V
Collector Voltage, V_{CC}	+6	V
Input Power	-40 to 8	dBm
Drain Current, I_{DD}	+650	mA
Case Operating Temperature	+150	°C
Operating Junction Temperature	+225	°C
Storage Temperature	-65 to +150	°C



Caution!

Exceeding any one or a combination of the Absolute Maximum Rating conditions may cause permanent damage to the device. Extended application of Absolute Maximum Rating conditions to the device may reduce device reliability.

Pin Description

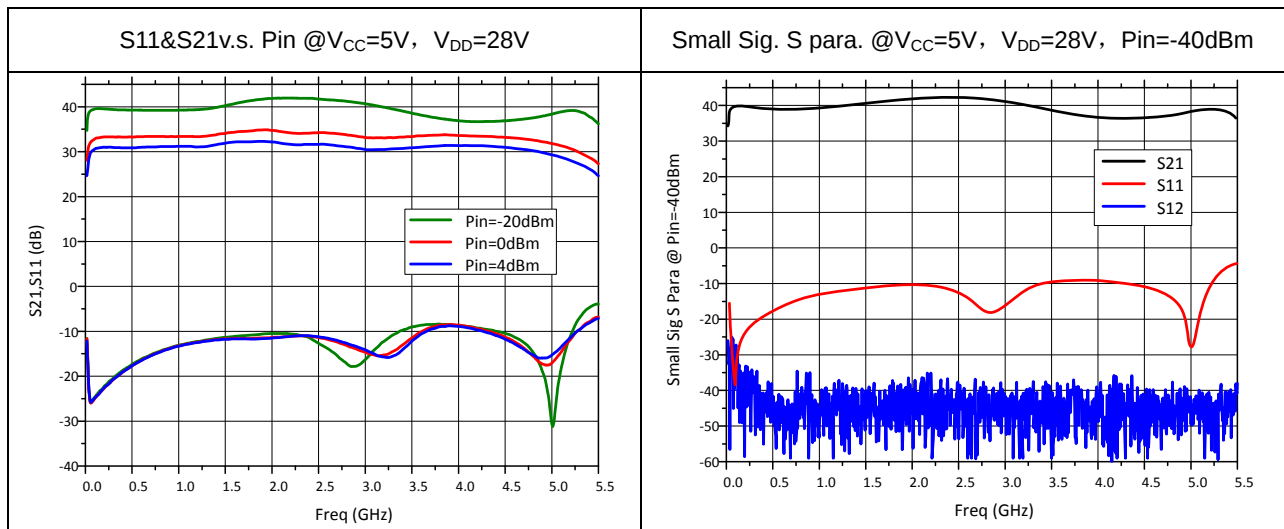
Pin No.	Symbol	Description
1	RFIN	RF input
2	V_{CC}	Supply voltage of V_{CC}
3	V_{DD}	Supply voltage of V_{DD}
4	RFOUT	RF output

Notes:

1. DC biases are supplied by through capacitor.
2. The negative voltage of Gate is provided by a power control unit inside the module.

Electrical Specifications

Typical Performance at +25 °C by Network Analyzer	(MHz)	100	1000	2400	3500	4800
S11 @Pin=-20dBm	dB	-24.6	-13.1	-11.4	-9	-14.6
S12 @Pin=-20dBm	dB	-27.3	-47.9	-42.4	-45.8	-42.4
Pout @Pin=0dBm	dBm	32.89	33.38	34.12	33.36	32.5
Pout @Pin=4dBm	dBm	34.64	35.2	35.62	34.85	34.13
DrainCurrent@Pout=30dBm	mA	244	263	289	350	265
DrainCurrent@Pout=34dBm	mA	370	373	420	530	394
Supply Voltage	V	VCC=+5, VDD=+28				
Quiescent Drain Current, Idq	mA	190				



Product Dimensions

