



ACMI085110-P34

X-band matched GaAs power amplifier module

Features:

Frequency: 8.5~11GHz

Saturated Output Power: $P_{sat} \geq 34\text{dBm}$

PowerGain: $\text{Gain} \geq 23.5\text{dB}$

Efficiency: $\eta = 40\%$ (type)

Port Matching: $Z_{in}/Z_{out} = 50\Omega$

Description:

ACMI085110-P34 is an internal matching GaAs power amplifier module, which adopts advanced co-planar internal matching MCM and thin film circuit technology. The typical working frequency range is 8.5~11GHz. This device can be used in different RF/Microwave system and subsystem. The high output power level, high efficiency and wide operating temperature range can make application very flexible.

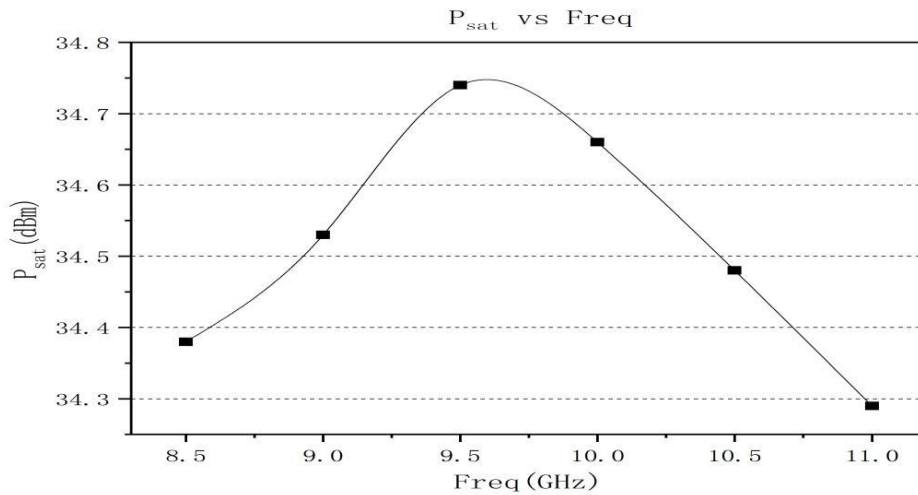
Maximun Ratings (TC=25°C, Not recommended working under this condition):

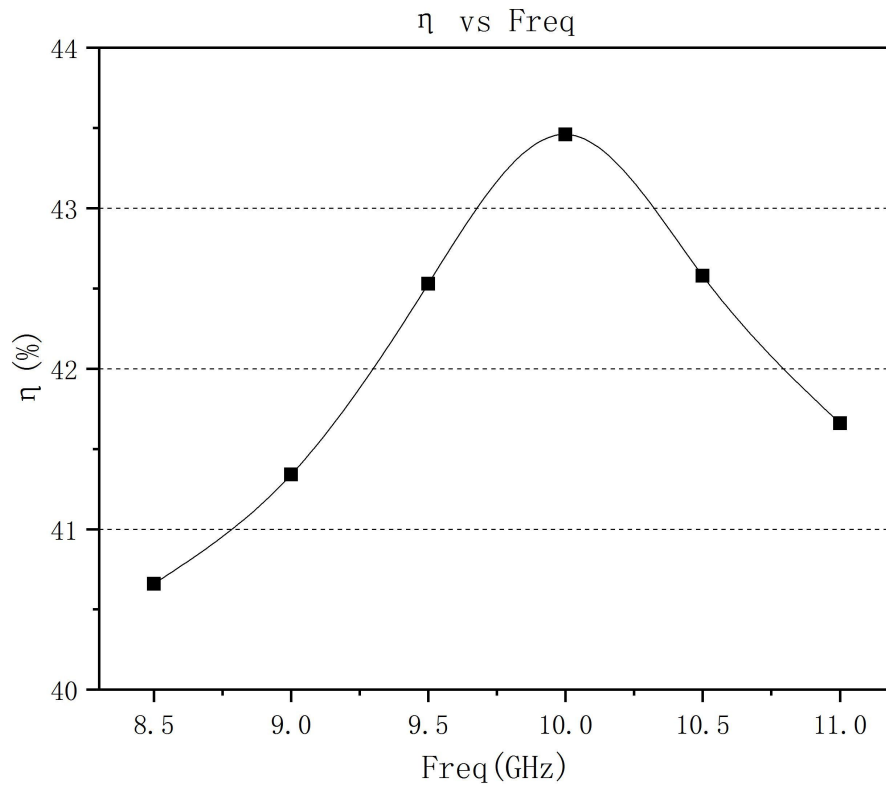
	Symbol	Value	Unit
Voltage between source and drain	V_{DS}	9	V
Voltage between gate and source	V_{GS}	-2	V
Storage Temperature Range	T_{stg}	-65 to +150	°C
Drain and Source Channel Temperature	T_{ch}	150	°C

Electrical Characteristics:

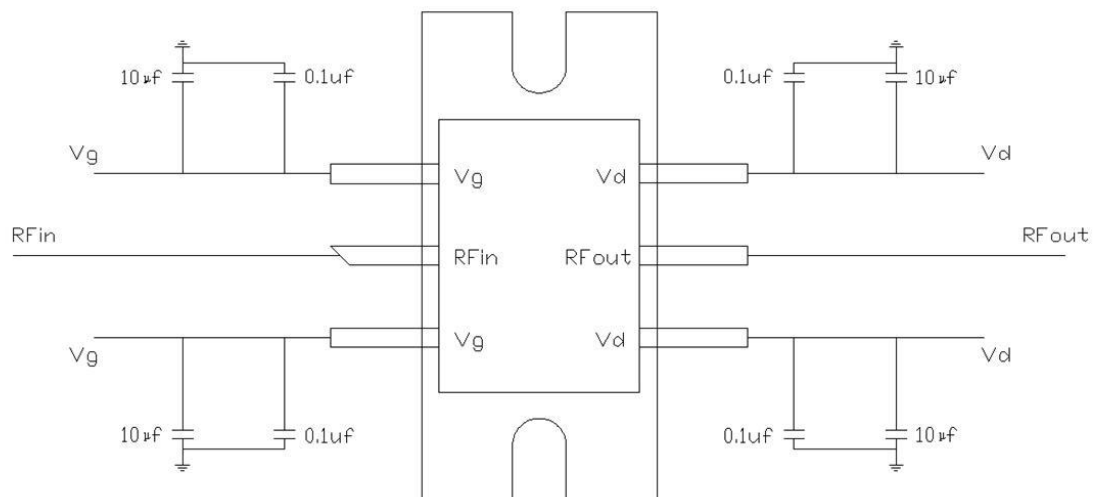
	Symbol	Test condition	Value			Unit
			Min	Typ	Max	
Drain Current	I_{dsr}	$V_{ds}=8V$ CW. $P_{in}: 10.5dBm$ Freq: 8.5~11GHz	-	0.8	-	A
Saturated Output Power	P_{sat}		34	-	-	dBm
Gain	G_p		23.5	-	-	dB
Efficiency	η		-	40	-	%
Gain Flatness	ΔG		-0.8	-	+0.8	dB

Typical Curve:





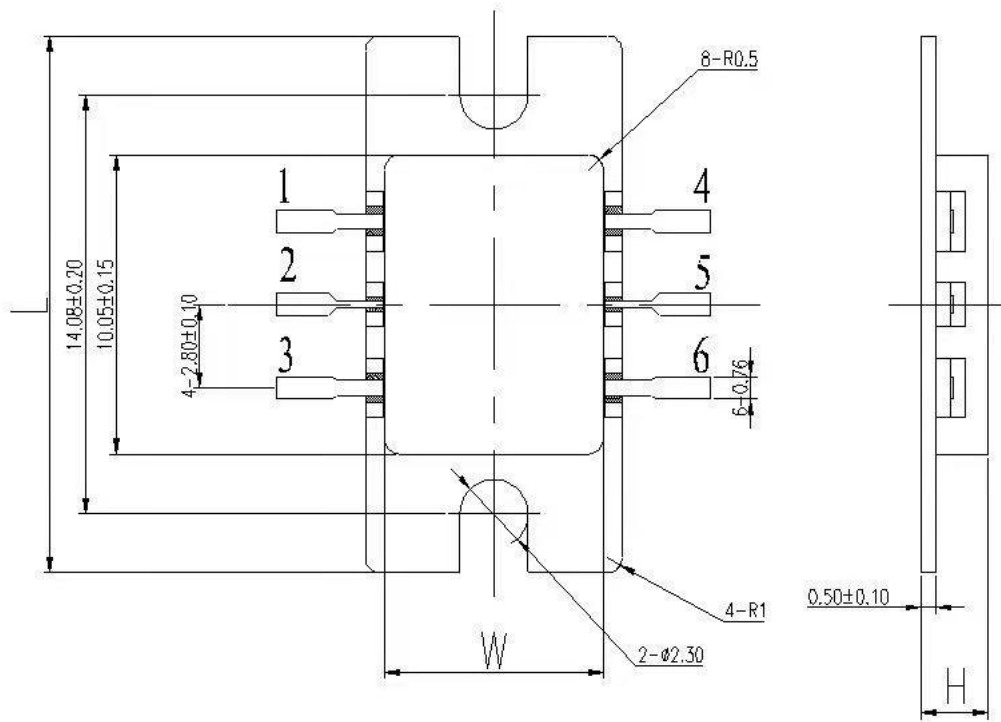
Application Circuit:



ESD Level:

ESD	Class III	2000V
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Outline:



Precautions for use:

- Pay attention to drying transportation and storage.
- Pay attention to anti-static during chip use and assembly, and wear grounding anti-static bracelet.
- When powering up, first apply grid power then add leakage.