# AnserRF

#### **Internal Matching GaAs Power Amplifier Module**

## ACMI044050-P40

### C-band matched GaAs power amplifier module

#### **Features:**

Frequency: 4.4~5GHz

Saturated Output Power: Psat≥40dBm

PowerGain: Gain≥24dB Efficiency: η=40%(type)

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

#### **Description:**

ACMI044050-P40 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 4.4~5GHz. 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	<b>V</b> DS	11	V
Voltage between gate and source	V <sub>G</sub> s	-3	V
Storage Temperature Range	$T_{stg}$	-65 to +150	°C
Drain and Source Channel Temperature	Tch	150	°C

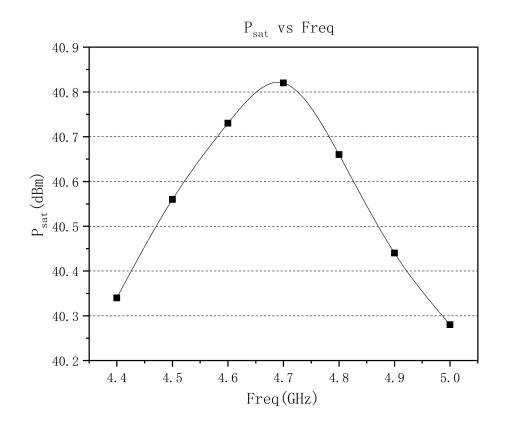


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#### **Electrical Characteristics:**

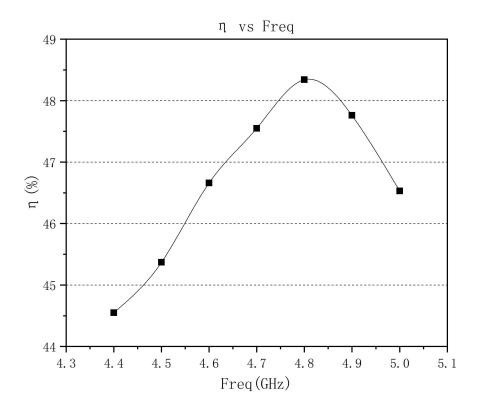
			Value			
	Symbol	Test condition	Min	Тур	Max	Unit
Drain Current	ldsr	Vds=10V CW. Pin: 16dBm Freq: 4.4~5GHz	-	2.5	-	Α
Saturated Output Power	Psat		40	-	-	dBm
Gain	Gp		24	-	-	dB
Efficiency	η		-	40	-	%
Gain Flatness	ΔG		-0.8	-	+0.8	dB

# **Typical Curve:**

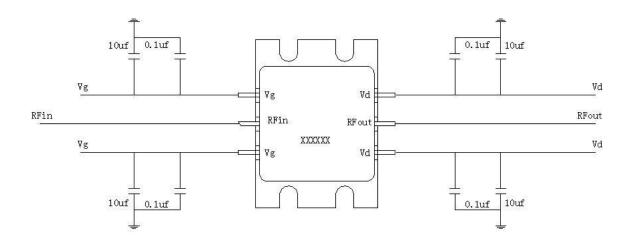




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# **Application Circuit:**



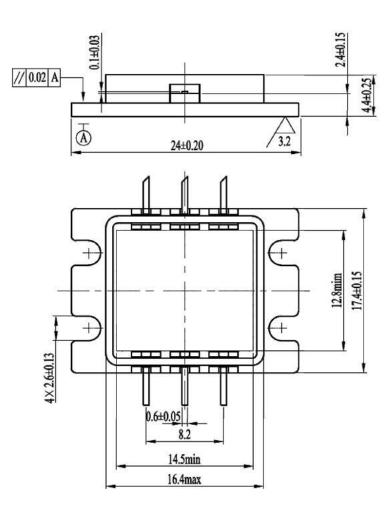


#### **Internal Matching GaAs Power Amplifier Module**

#### **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.