

## Internal Matching GaAs Device

# ACGI014015-P39-1

L-band matched GaAs Device

#### Features:

Frequency: 1.4~1.55GHz

1dB Output Power :  $P_{1dB} \ge 39dBm$ 

PowerGain: Gain≥10dB

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

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

#### Description:

ACGI014015-P39-1 is an internal matching GaAs device, which adopts advanced co-planar internal matching MCM and thin film circuit technology. The typical working frequency range is 1.4~1.55GHz. 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 $^{\circ}$ C, Not recommended working under this condition):

	Symbol	Value	Unit
Voltage between source and drain	Vds	11	V
Voltage between gate and source	Vgs	-3	V
Storage Temperature Range	Tstg	-65 to +150	°C
Drain and Source Channel Temperature	Tch	150	°C

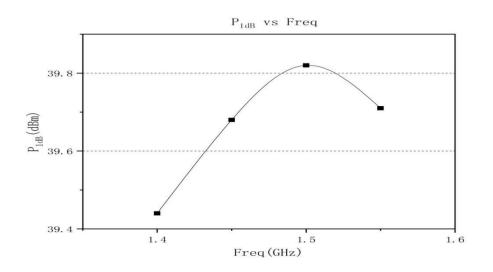
If you need more detailed product information, please contact our marketing personnel or designers. Contact: Peter.Zhang Email: peter.zhang@anserrf.com



### **Electrical Characteristics:**

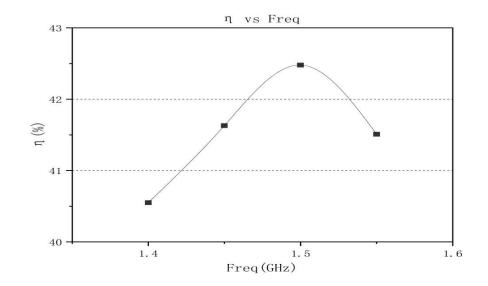
			Value			
	Symbol	Test condition	Min	Тур	Max	Unit
Drain Current	ldsr	Vds=10V CW. Pin: 29dBm Freq: 1.4~1.55GHz	-	2	-	А
1dB output power	P1dB		39	-	-	dBm
Gain	Gp		10	-	-	dB
Efficiency	η		-	40	-	%
Gain Flatness	ΔG		-0.8	-	+0.8	dB

### **Typical Curve:**

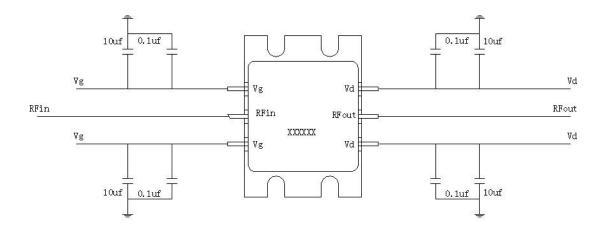


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### **Application Circuit:**



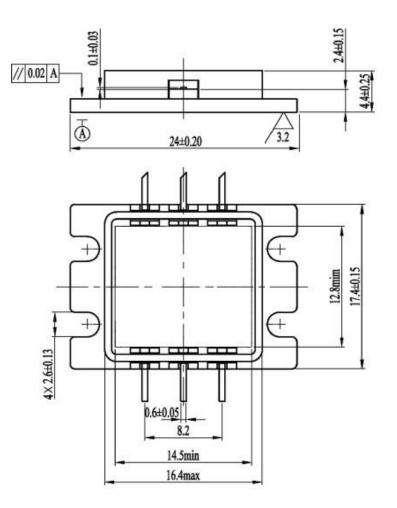
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#### **ESD** Level:

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.