02



Performance characteristics:

Frequency band: 8-12GHz
 Power supply: Vgg-1. 2V; Vdd1, Vdd2, Vdd3: + 5V

Gain: 26dB Efficiency: 40%

• Saturated output power: 30.5 dBm Chip size: 3.45 mm imes 2.75 mm imes 0.1 mm

Product Description:

CW-PA0812P01A is a GaAs MMIC power amplifier with a frequency range of 8-12GHz, an output power of 30.5 dBm and an efficiency of 40%. The chip adopts Vg:-1.2 V; Vd: + 5V power supply.

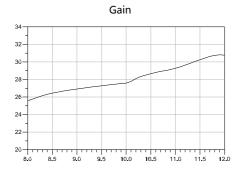
Electrical parameters: (TA=25 °C, Vgg=-1. 2V, Vdd1=Vdd2=Vdd3=+5V)

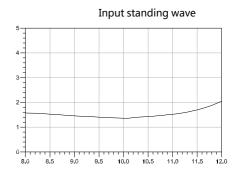
Minimum value	Typical value	Maximum value	Unit
	8-12		GHz
-	26	-	dB
-	1.5	-	dB
-	1.8	-	dB
-	30.5	-	dBm
-	250	-	mA
-	40	-	%
	-	8-12 - 26 - 1.5 - 1.8 - 30.5 - 250	8-12 - 26 - 1.5 - - 1.8 - - 30.5 - - 250 -

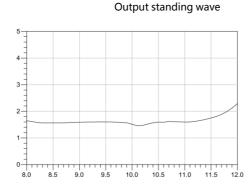
Use limit parameters:

ese mine parameters.		
Input power	23dBm	
Voltage	+ 7V	
Storage temperature	-65 ℃-150 ℃	
Operating temperature	-55 ℃-85 ℃	

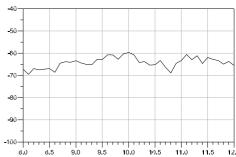
Typical curve:

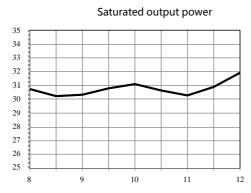


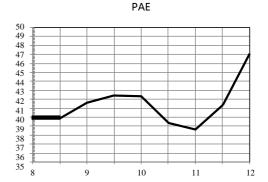




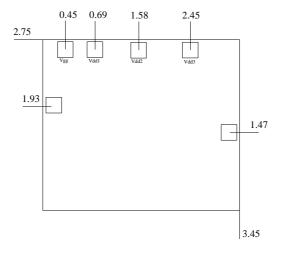
Reverse isolation





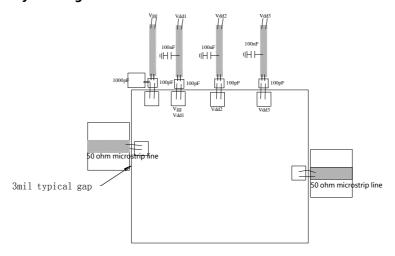


Dimension drawing: (in mm)





Suggested assembly drawing:



Instructions for use:

Storage: The chip must be placed in a container with electrostatic protection function and stored in nitrogen environment.

Cleaning treatment: Bare chips must be operated in a clean environment, and it is

forbidden to use liquid cleaner to clean the chips.

Electrostatic protection: Please strictly abide by ESD protection requirements to

avoid electrostatic damage of devices.

General operation: Please use vacuum chuck or precision pointed tweezers to take the chip.

Avoid touching the chip surface with tools or fingers during operation.

Mounting operation: The chip can be installed by AuSn solder eutectic welding or conductive

adhesive bonding process. The mounting surface must be clean and flat.

Bonding operation: Two bonding wires (recommended diameter 25um gold wire) are used for input and output, and the length of bonding wire is less than 250um. It is recommended to use as little ultrasonic energy as possible. Bonding starts at the pad point on the chip and ends at the package (or substrate).