



## 150W Wide Band Solid State EMC Benchtop Power Amplifier 8GHz~11GHz

- High output power +52dBm
- Aerospace and military application
- X-band radar
- High Peak to average handle capability
- All specifications can be modified upon request



Parameter	Min	Typ	Max	Units
Frequency Range	8-11GHz			GHz
Gain	45	46	47	dB
Gain Variation Over Temperature		6	8	dB/°C
Input Return Loss	-7	-15	-20	dB
Output Return Loss	-6	-15	-23	dB
Power @ 1dB Compression (P1dB)		50		
Saturated Power (Psat)		52		dBm
IM3				dBc
Supply Current (110V/ 220V AC)				A
Power Supply	27.5	28	28.5	V
Power Supply Ripple			75	mVp-p
Isolation S12	-50	-45	-40	dB
Input Max	5			dBm
Weight	4200			g
Impedance	50			Ohms
Input /Output Connector	N-Female			
Finishing	Black Paint			
Material	Aluminum/copper			

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## Amplifier safety precautions

High Power amplifiers are designed to generate significant amounts of RF energy and can generate high RF voltages and currents. If not properly terminated, they can generate potentially harmful high electromagnetic fields. They are capable of causing serious harm and injury unless proper safety precautions are followed. All personnel operating or maintaining the amplifiers must be trained and familiar with the appropriate safety precautions.

## Amplifier use

Ensure that the amplifier input and output ports are safely terminated into a proper 50 ohm load before turning on the power. Never operate the amplifier without a load.

In most cases, RF-Lambda amplifiers will withstand severe mismatches without damage. However, operation with poor loads is discouraged. If prolonged operation with poor or unknown loads is expected, an external device such as an isolator or circulator should be used to protect the amplifier.

Ensure that the power is off when connecting or disconnecting the input or output of the amp.

Prevent overdriving the amplifier. Do not exceed the recommended input power level.

Adequate heat-sinking required for RF amplifier modules. Please inquire.

Amplifiers do not contain Thermal protection, reverse DC polarity or over voltage protection with the exception of a few models. Please inquire.

Proper electrostatic discharge (ESD) precautions are recommended to avoid performance degradation or loss of functionality.



# RF-LAMBDA

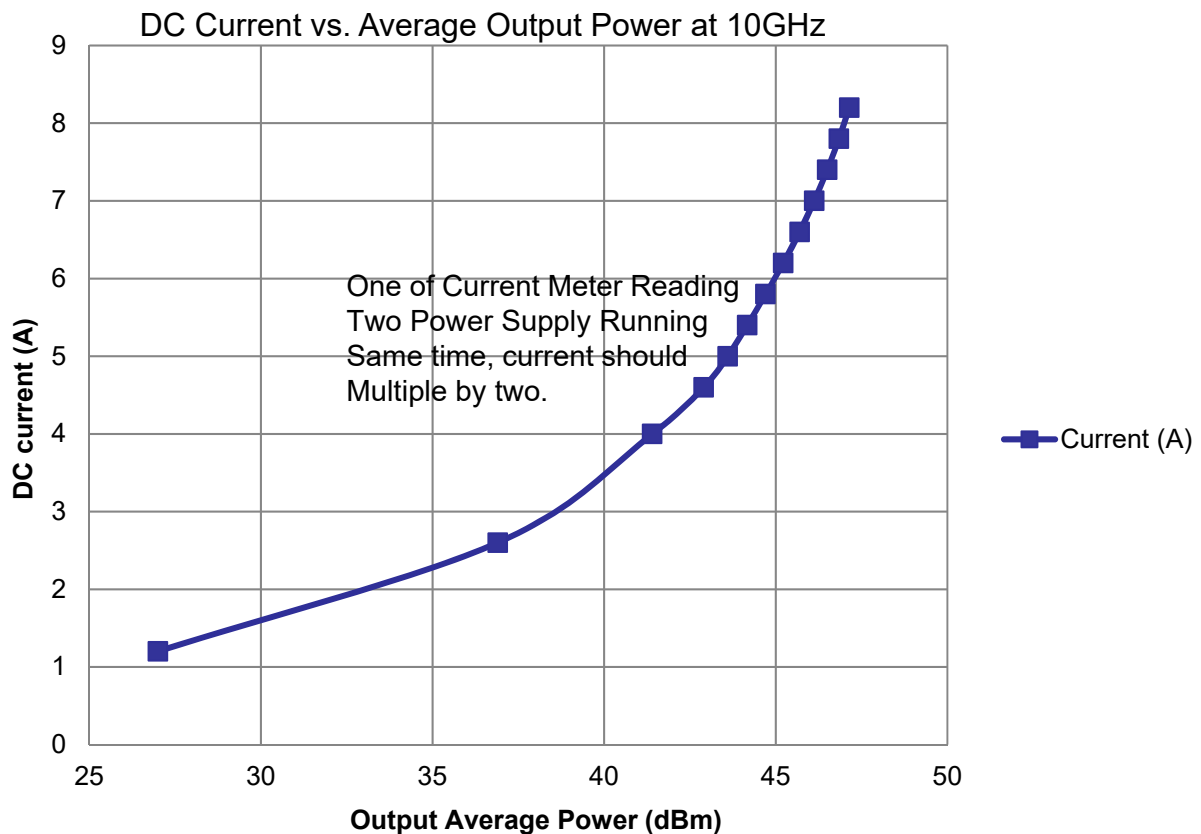
The power beyond expectations

RAMP08G11GD

Absolute Maximum Ratings	
Biasing	110V /220V
Input RF power	5 dBm
Storage Temperature (C°)	-50 ~ +125

Ordering Information		
Part No	ECCN	Description
RAMP08G11GD	XI(C)	8GHz~11GHz Power Amplifier

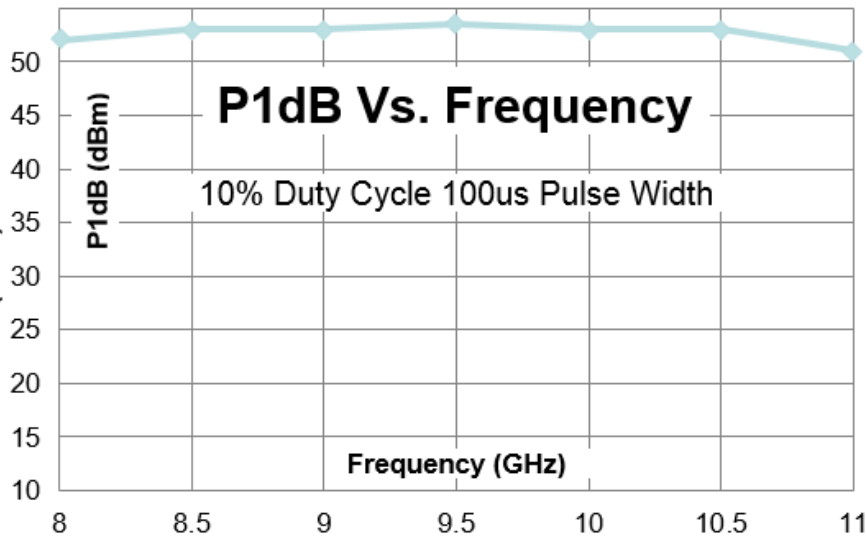
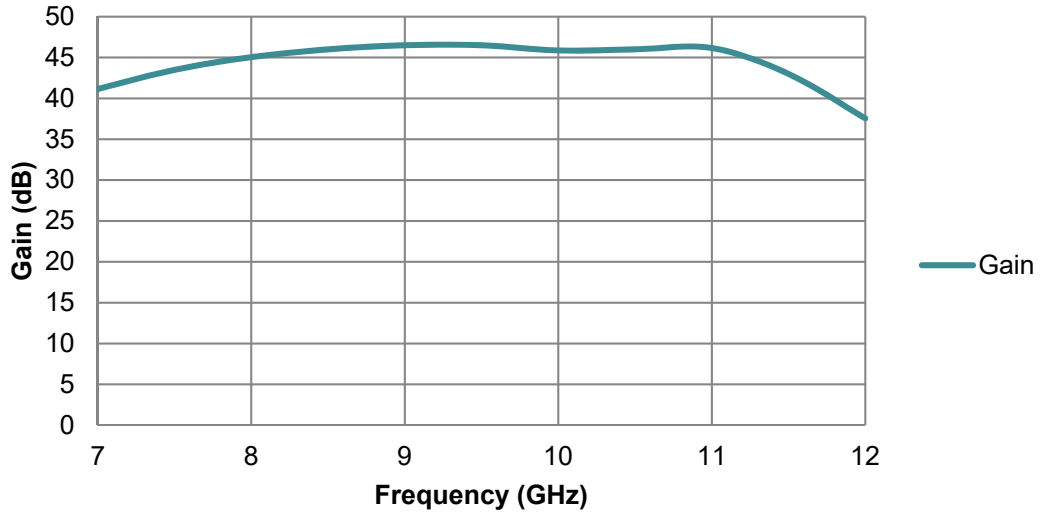
Biasing Up Procedure	
Step 1	Connect input and output with 50 Ohm source/load. ( in band VSWR<1.9:1 or >10dB return loss)
Step 2	Turn on AC power.
Step 4	Enable RF output
Power OFF Procedure	
Step 2	Turn off RF output power
Step 3	Turn Off DC power
Step 4	Disconnect input and output



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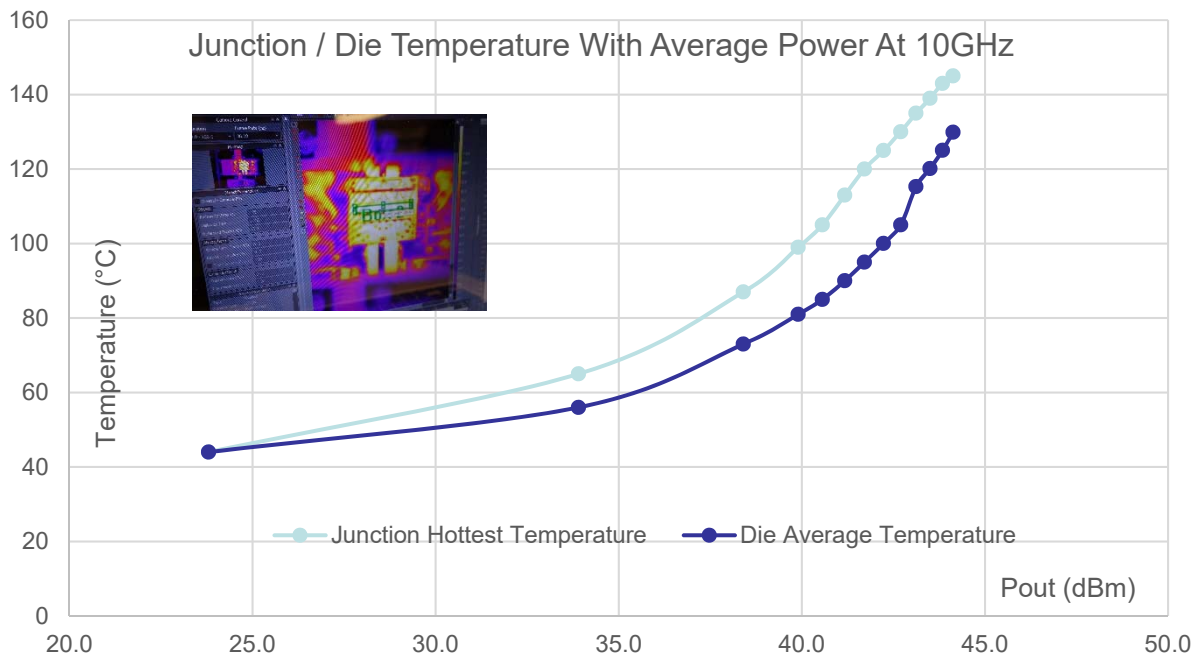
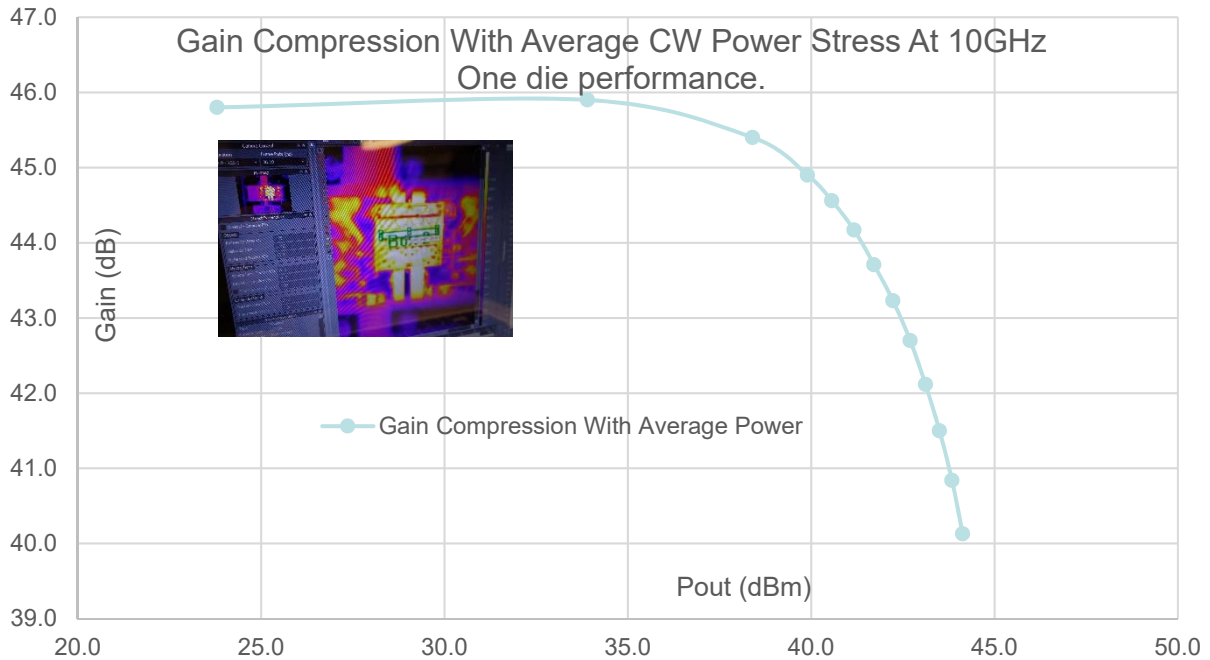


## Gain





## PA Stress Testing. ( data from single die)



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