



AC 110V/220V 9W Power Amplifier 27GHz~34GHz

- High output power up to 39dBm Psat
- Aerospace and military application
- High Peak to average handle capability
- High Linearity and low noise figure
- All specifications can be modified upon request



Parameter	Min	Type	Max	Units
Frequency Range	27 ~ 34			GHz
Gain	30	35	43	dB
Gain Variation Over Temperature		6	8	dB
Input Return Loss		10		
Output Return Loss		20		
Output Power For 1dB Compression (P-1dB)	36	37	38	dBm
Output Power For dB Compression (P-3dB)	36	38	39.5	
IM3 @ Pout/Tone = 33 dBm		-42		dBc
IM5 @ Pout/Tone = 33 dBm		-42		dBc
Supply Current (Idd) (Vdd=+28V)		400		mA
Power Supply		24		V
Isolation S12		70		dB
Input Max		22dBm		dBm
Weight	365			g
Impedance	50			Ohms
Input /Output Connector	2.92-Female			
Finishing	Gold plating			
Material	Aluminum/copper			

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The power beyond expectations

RAMP27G31GA

Absolute Maximum Ratings	
Biassing	110V /220V AC
Input continuous wave power	22dBm
Storage Temperature (C°)	-50 ~ +125

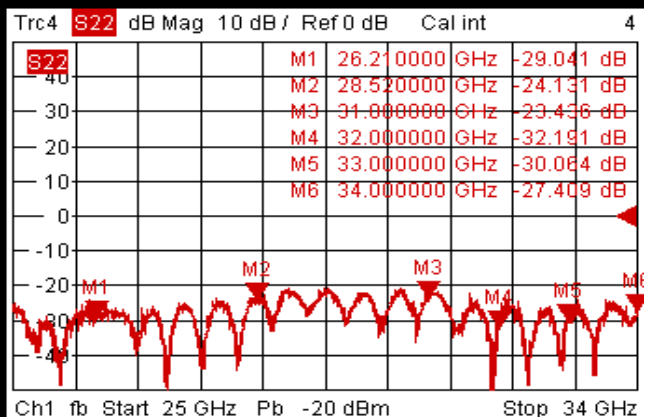
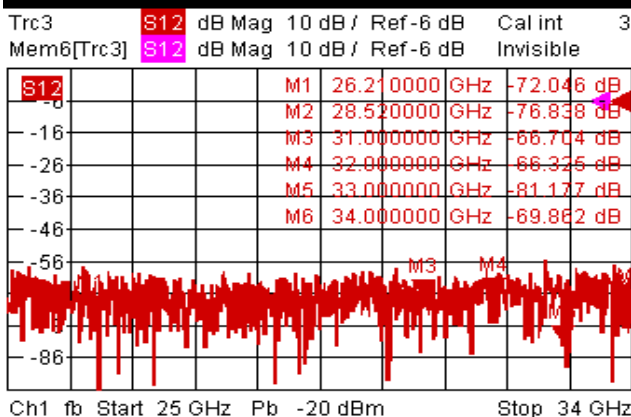
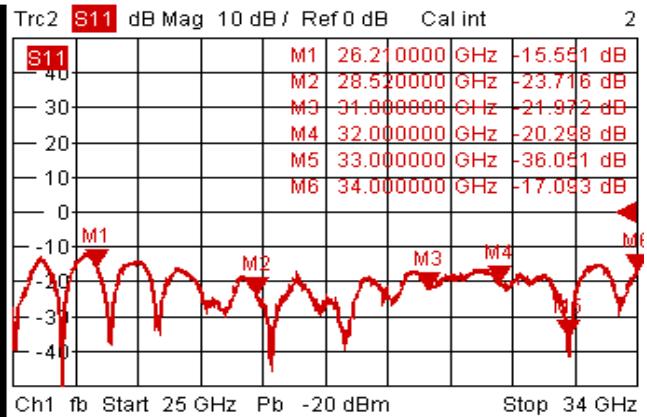
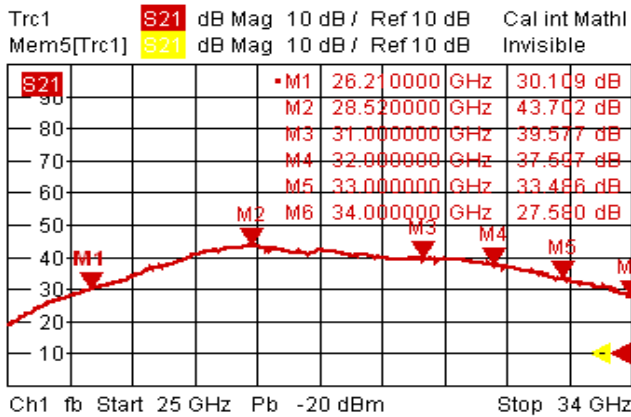
Ordering Information		
Part No	ECCN	Description
RAMP27G31GA	3A001.b.2.c	27GHz~34GHz Power Amplifier

Biassing Up Procedure	
Step 1	Connect input and output
Step 2	Connect Ground Pin
Step 3	Connect AC

Power OFF Procedure	
Step 1	Turn off AC
Step 2	Remove RF connection
Step 3	Remove Ground.

Environment specifications	
Operational Temperature (C°)	-45 ~ +85 (Case Temperature must be less than 85C all time)
Storage Temperature (C°)	-50 ~ +125
Altitude	30,000 ft (Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment)
Vibration	35g rms (15 degree 2KHz)
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msc

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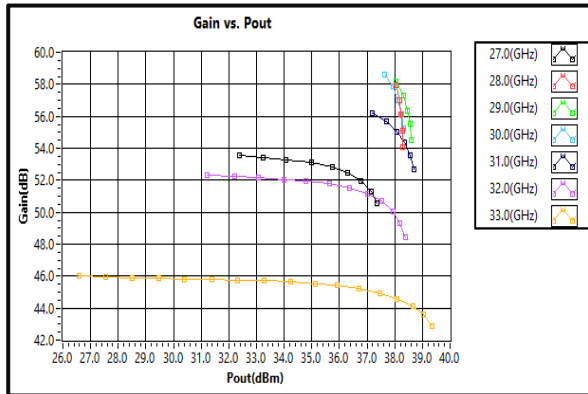


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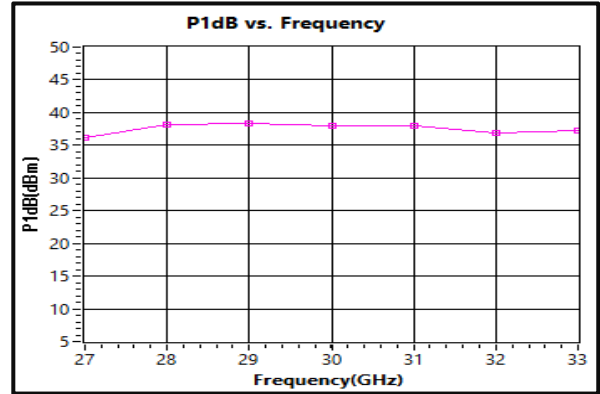
The power beyond expectations

RAMP27G31GA

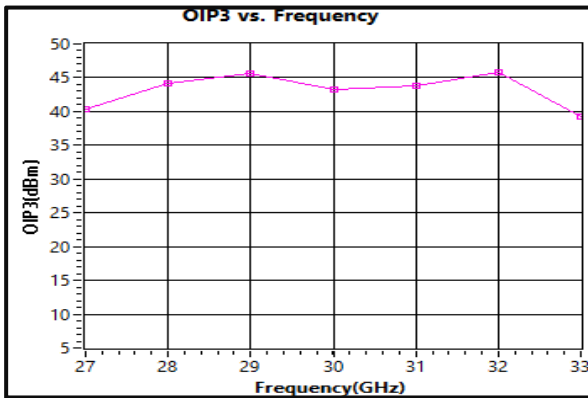
Gain vs. output power



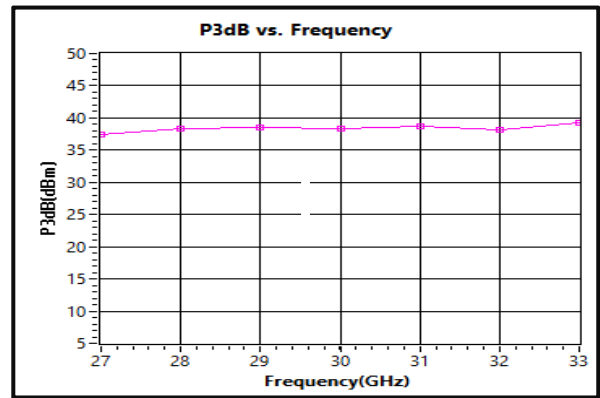
P1dB vs. Frequency



Output Third Order Intercept (IP3)



P3dB vs. Frequency

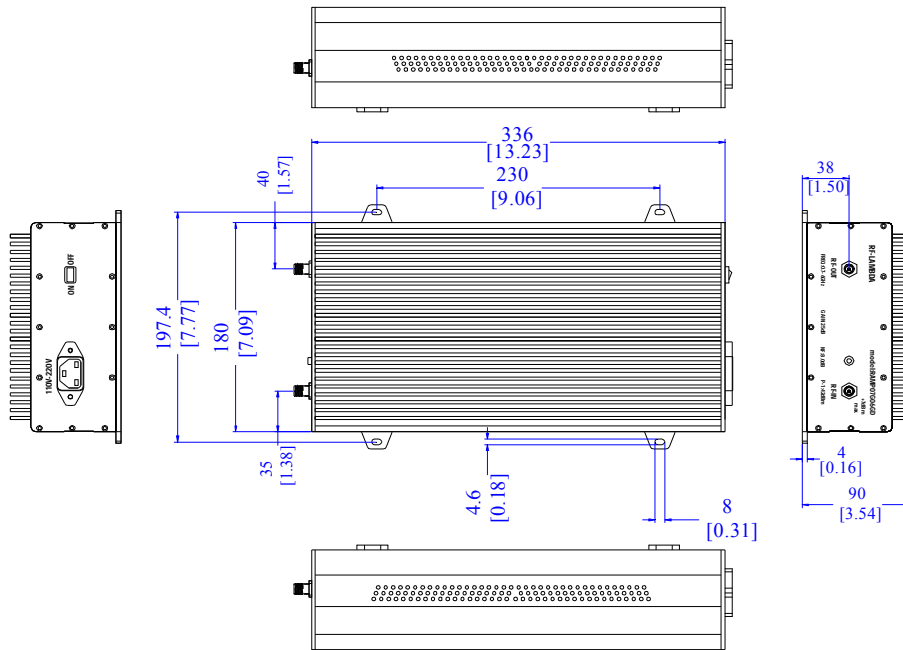


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Outline Drawing:

All Dimensions in mm (inches)



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