



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

RFLUPA27G33GA

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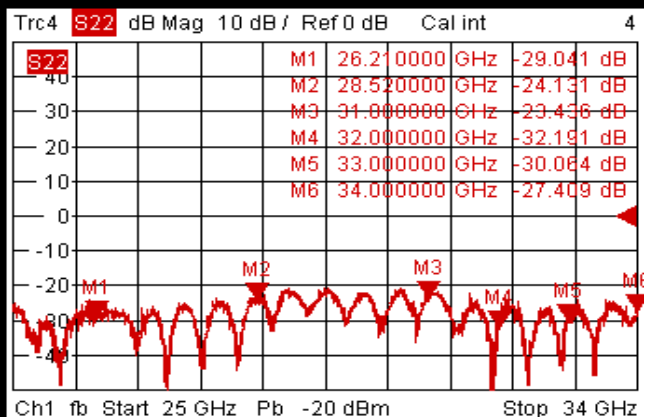
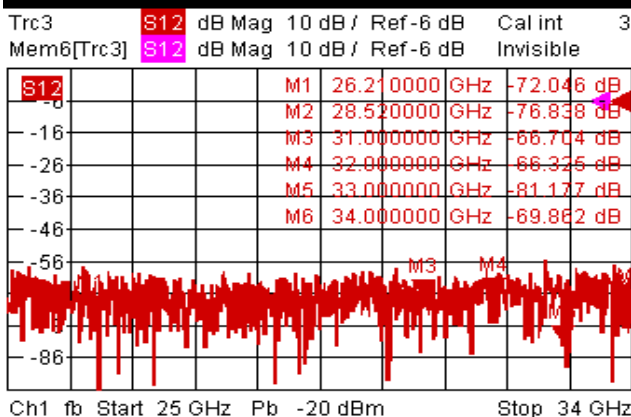
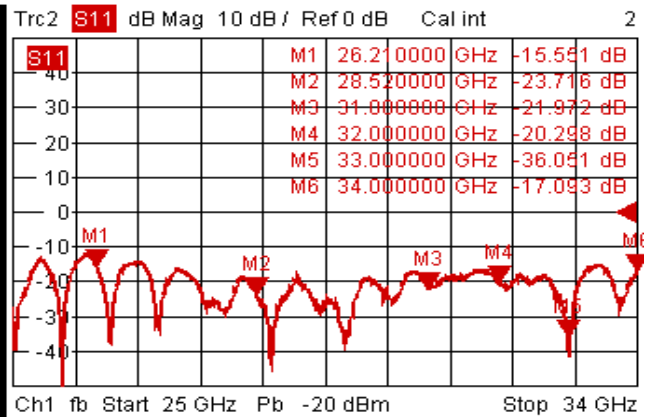
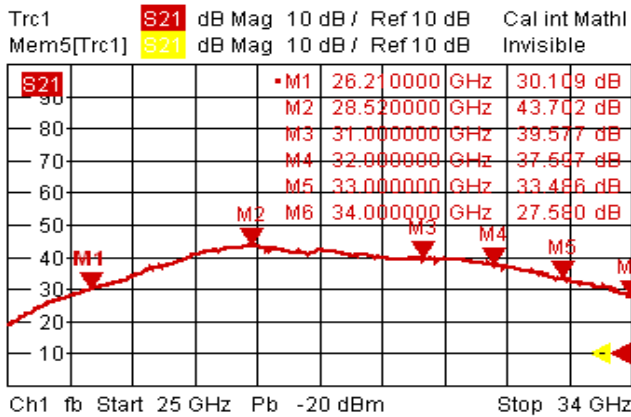
Absolute Maximum Ratings	
Biassing	+24V
Input Continuous Wave Power	22dBm
Storage Temperature (C°)	-50 ~ +125

Ordering Information		
Part No	ECCN	Description
RFLUPA27G33GA	3A001.b.2.c	27GHz~33GHz Power Amplifier

Biassing Up Procedure	
Step 1	Connect input and output
Step 2	Connect Ground Pin
Step 3	Connect 24V biassing

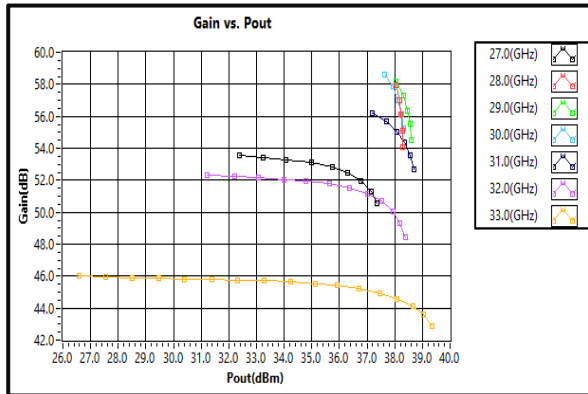
Power OFF Procedure	
Step 1	Turn off +24V biassing
Step 2	Remove RF connection
Step 3	Remove Ground.

Operational Temperature (C°)	-45 to+85
Storage Temperature (C°)	-50 to +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40°c
Shock	20G for 11msc half sin wave,3 axis both directions

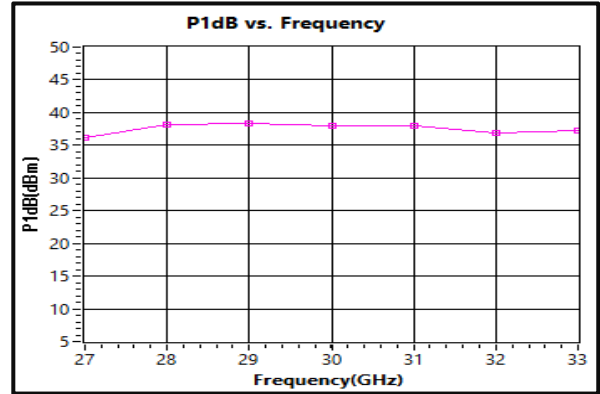




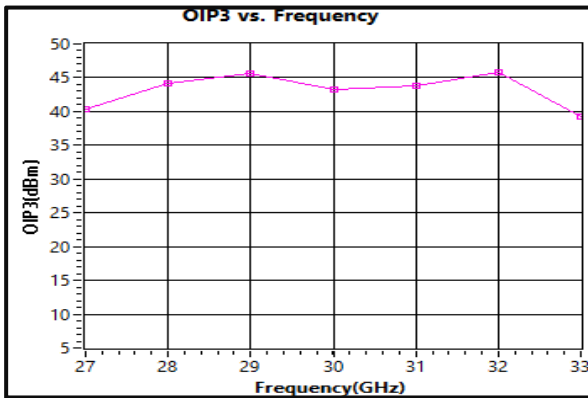
Gain vs. output power



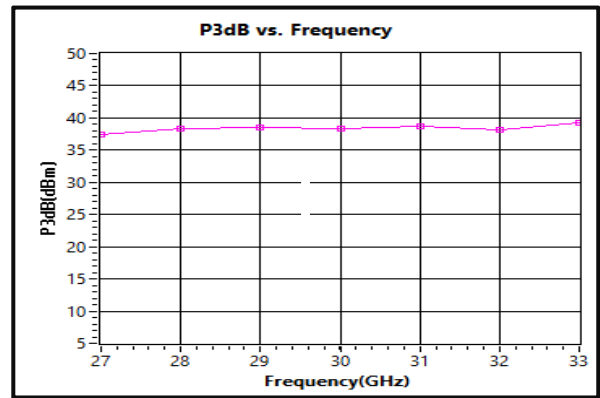
P1dB vs. Frequency



Output Third Order Intercept (IP3)



P3dB vs. Frequency

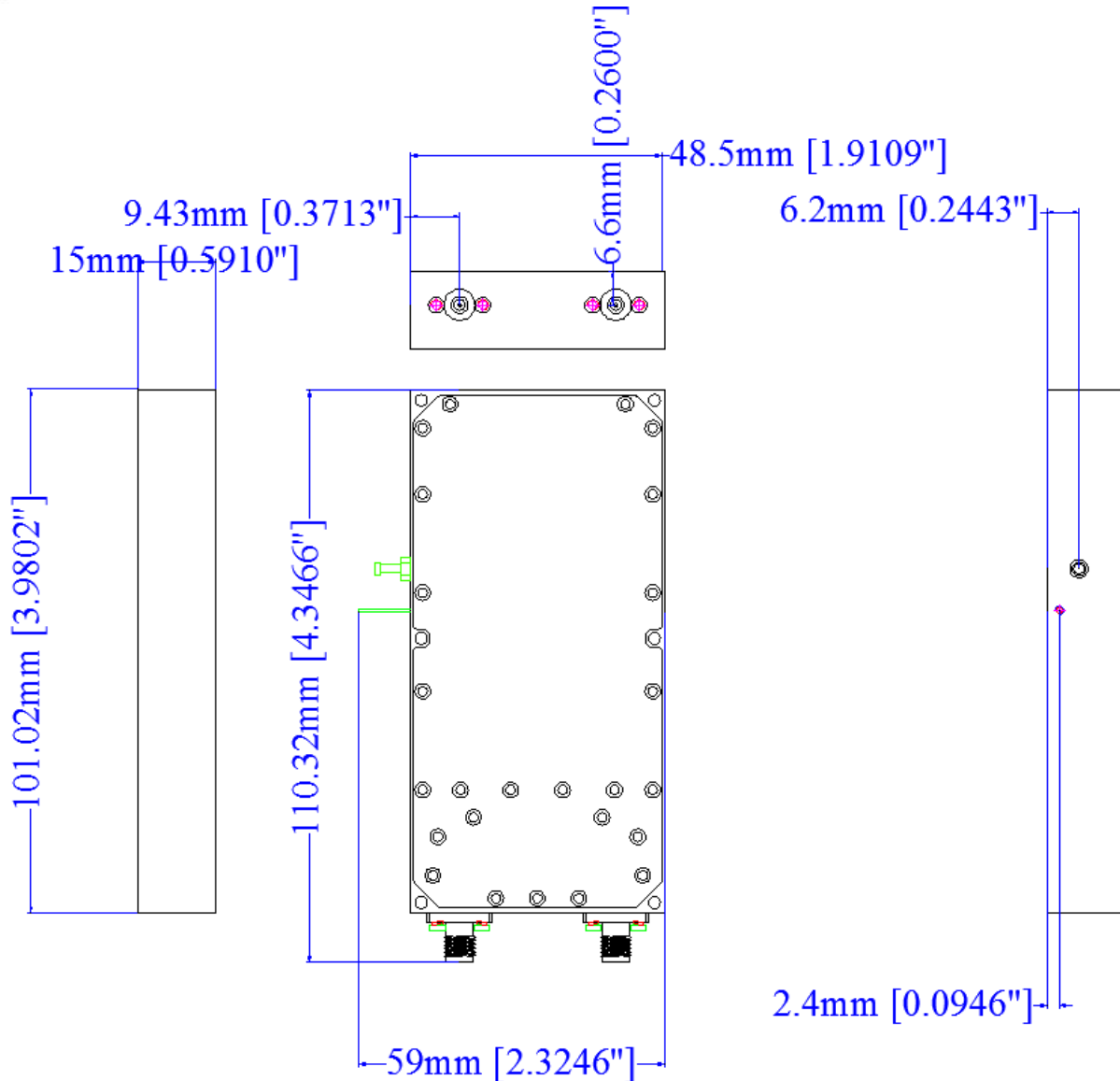




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Heat Sink required during operation.



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