



Ka Band 2W Power Amplifier 28~42GHz

- High output power up to 36dBm Psat
- Aerospace and military application
- High Peak to average handle capability
- High Linearity and low noise figure
- All specifications can be modified upon request



AC 110V/220V 2W Power Amplifier 28GHz~42GHz

Parameter	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Units
Frequency Range	28~30			30 ~ 40			40 ~ 42			GHz
Gain	23	28	33	30	34	40	28	31	34	dB
Noise Figure		8			8			8		dB
Input Return Loss		18			12			10		dB
Output Return Loss		7			7			7		dB
Output Power For 1dB Compression (P-1dB)	28	31	33	29	32	34	28	31	33	dBm
Saturated Output Power (Psat)		35			36			35		dBm
Supply Current (Idd) (Vdd=+28V)		440	1500		440	1500		440	1500	mA
Power Supply		24			24			24		V
Isolation S12	60	70		60	70		60	70		dB
Input Max		15			15			15		dBm
Weight	365			365			365			g
Impedance	50			50			50			Ohms
Input /Output Connector	2.92 mm - Female									
Finishing	Gold plating									
Material	Aluminum/copper									



RF-LAMBDA

The power beyond expectations

RAMP30G40GA

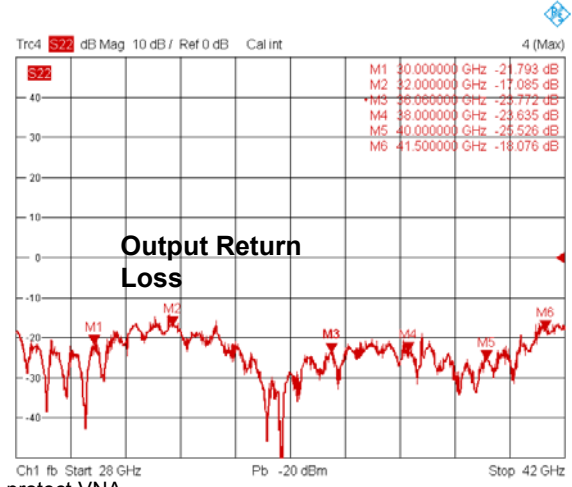
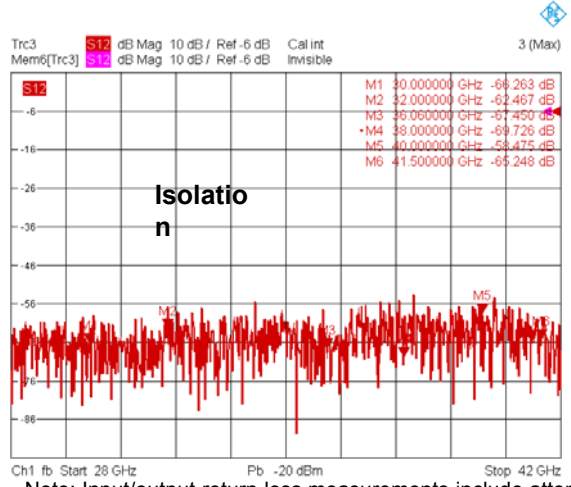
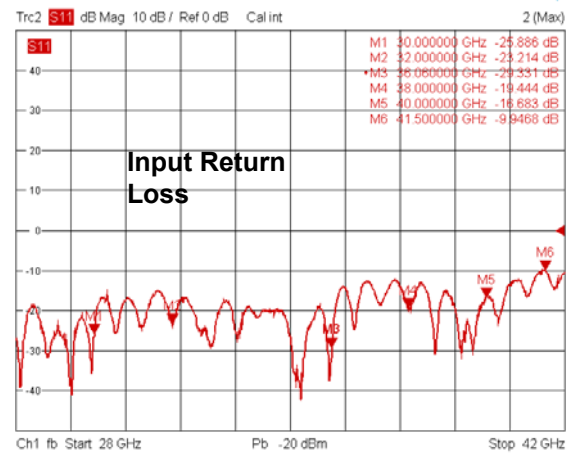
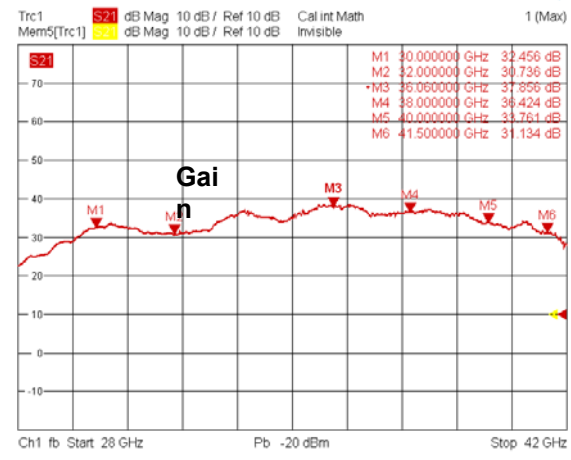
Absolute Maximum Ratings	
Biassing	110V /220V AC
Input continuous wave power	22dBm
Storage Temperature (C°)	-50 ~ +125

Ordering Information		
Part No	ECCN	Description
RAMP30G40GA	3A001.b.2.c	28GHz~42GHz 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 11msec



Note: Input/output return loss measurements include attenuators to protect VNA

AC 110V/220V 2W Power Amplifier 28GHz~42GHz

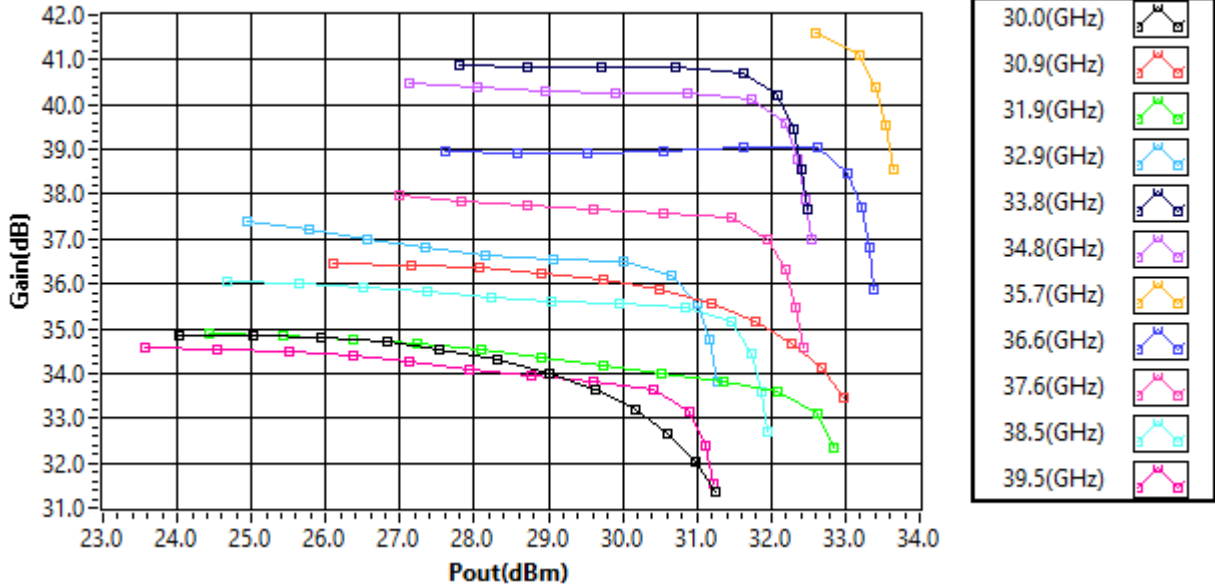


RF-LAMBDA

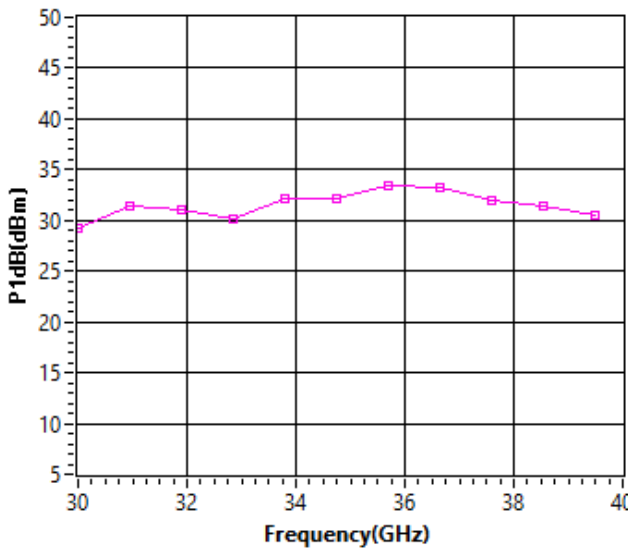
The power beyond expectations

RAMP30G40GA

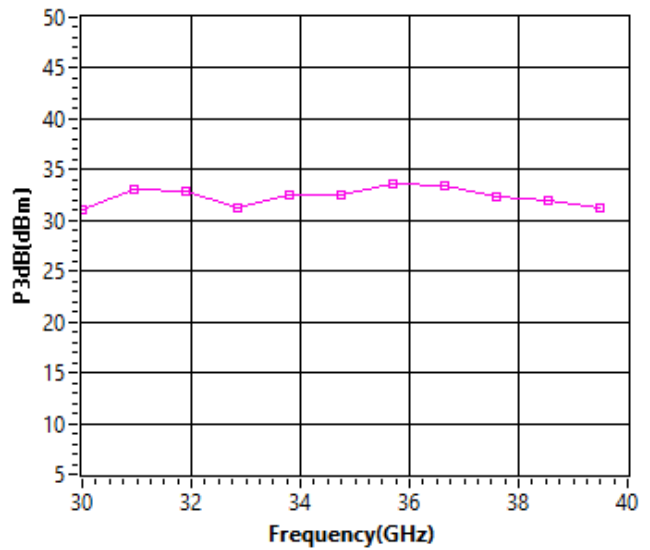
Gain vs. Pout



P1dB vs. Frequency



P3dB vs. Frequency



AC 110V/220V 2W Power Amplifier 28GHz~42GHz



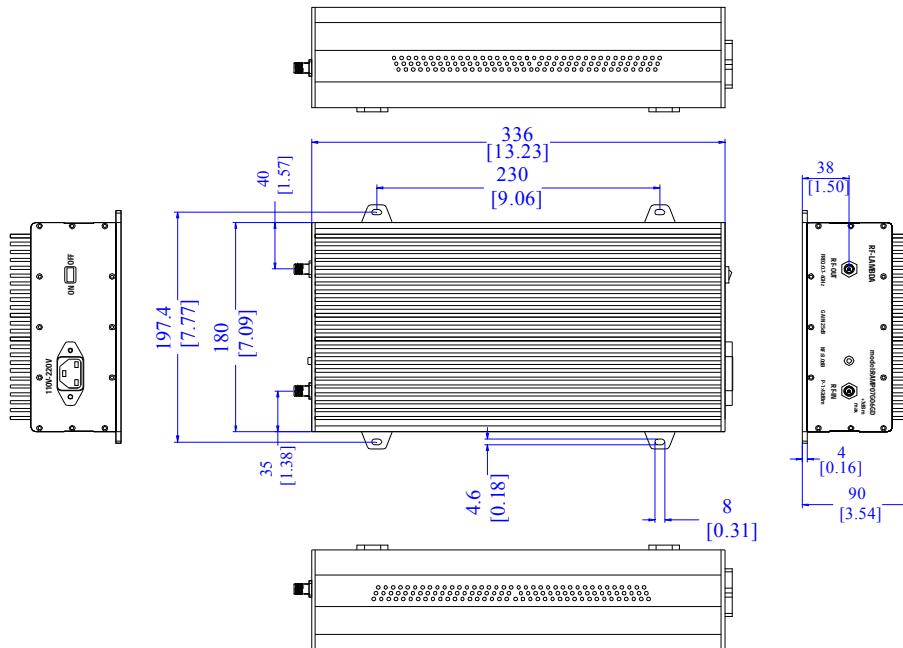
RF-LAMBDA

The power beyond expectations

RAMP30G40GA

Outline Drawing:

All Dimensions in mm (inches)



Important Notice

The information contained herein is believed to be reliable. RF-Lambda makes no warranties regarding the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for any of the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for the use of the information contained herein. The information contained herein is provided "AS IS, WHERE IS" and with all faults, and the entire risk associated with such information is entirely with the user. All information contained herein is subject to change without notice. Customers should obtain and verify the latest relevant information before placing orders for RF-Lambda products. The information contained herein or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information.

RF-Lambda products are not warranted or authorized for use as critical components in medical, life-saving, or life sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.

AC 110V/220V 2W Power Amplifier 28GHz~42GHz