



RF-LAMBDA

The power beyond expectations

RAMP16G45GA

Ultra Wide Band 110V/220V AC Low Noise Amplifier 16GHz~45GHz



- Output power 20dBm typical
- Low Noise Figure: 4dB typical.
- High P1dB >20dBm full band.
- No External Matching Required
- Applicable for base station ,repeaters of cellular network
- Aerospace and military application
- LMDS multi-carrier operation
- High peak to average handle capability
- All specifications can be modified upon request

Specification	Ultra Wide Band Lose Noise Amplifier		
	PN: RAMP16G45GA		
	Low	Med	High
Frequency Range(GHz)	16	36	45
Gain (dB)	32	34	37.5
Variation Part to Part	±2dB		
Variation Over Temperature	±2.5dB		
VSWR (input)	1.5	2.0	2.5
VSWR (output)	1.5	2.0	2.5
Isolation S12 (dB)	70	65	60
Noise Figure (dB)	4.5	5	6
P1dB Power (dBm)	23	20	20
Input Max. (dBm)	-10		
Weight (g)	25		
Impedance(Ohms)	50Ω		
Power Supply (V)	110V / 220V AC		
Current(mA)	N/A		
Input Connector	2.92mm-Female		
Output Connector	2.92mm-Female		
Finishing	Gold Plating		
Material	Aluminum		
Seal	Hermetically Sealed (Optional)		

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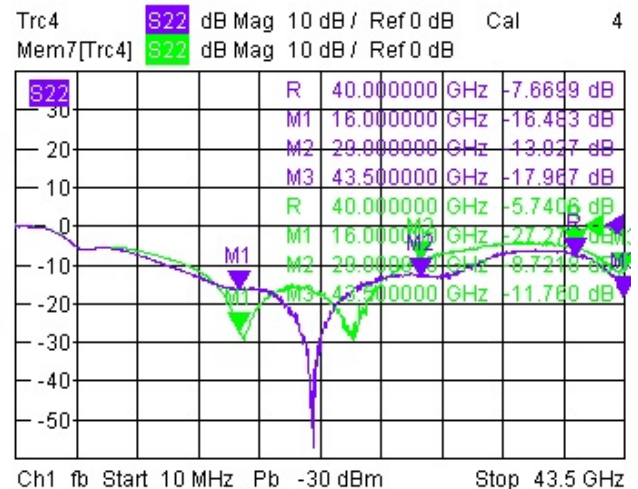
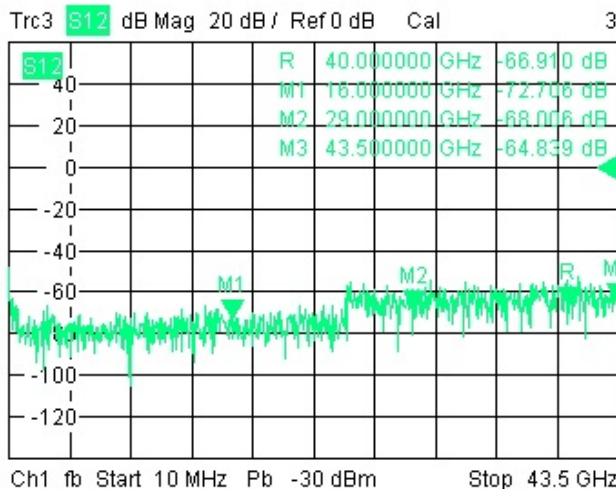
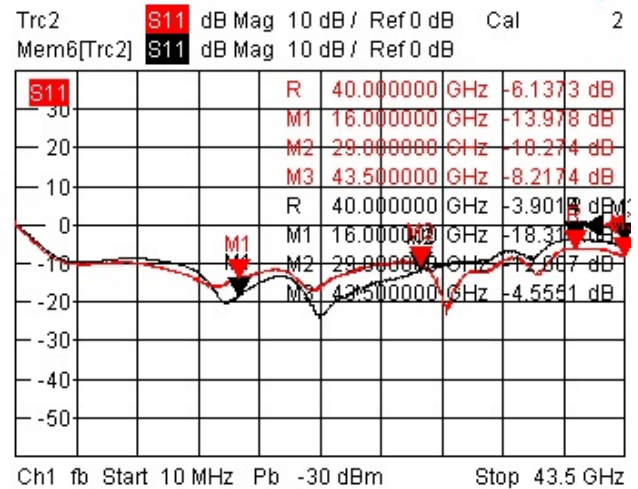
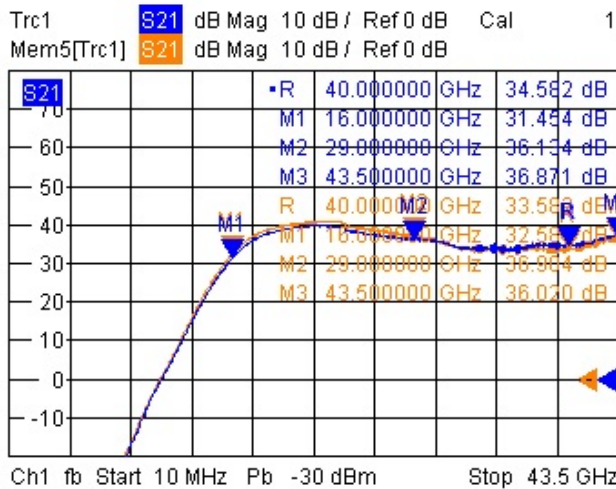
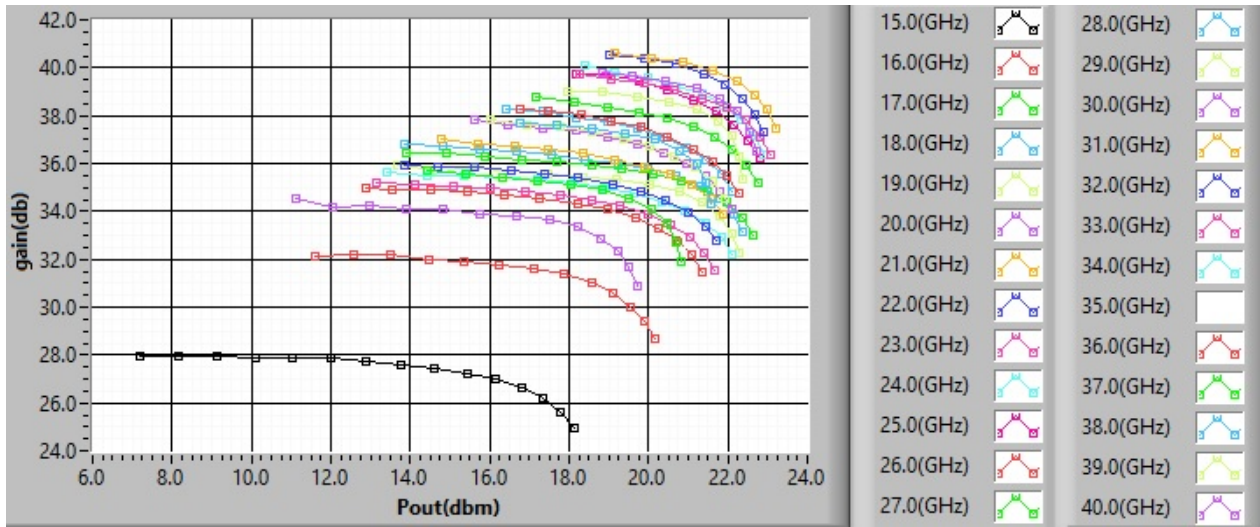


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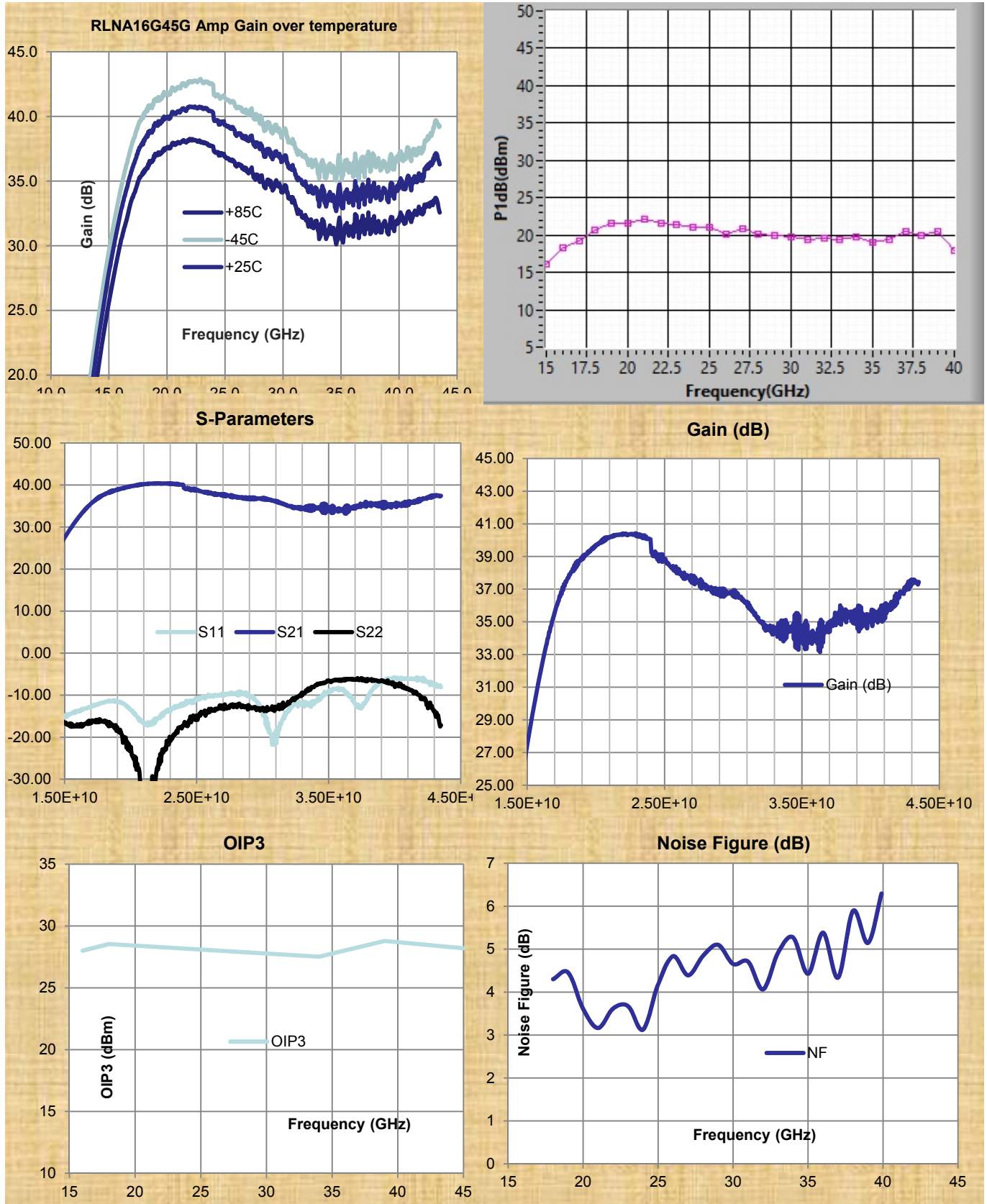


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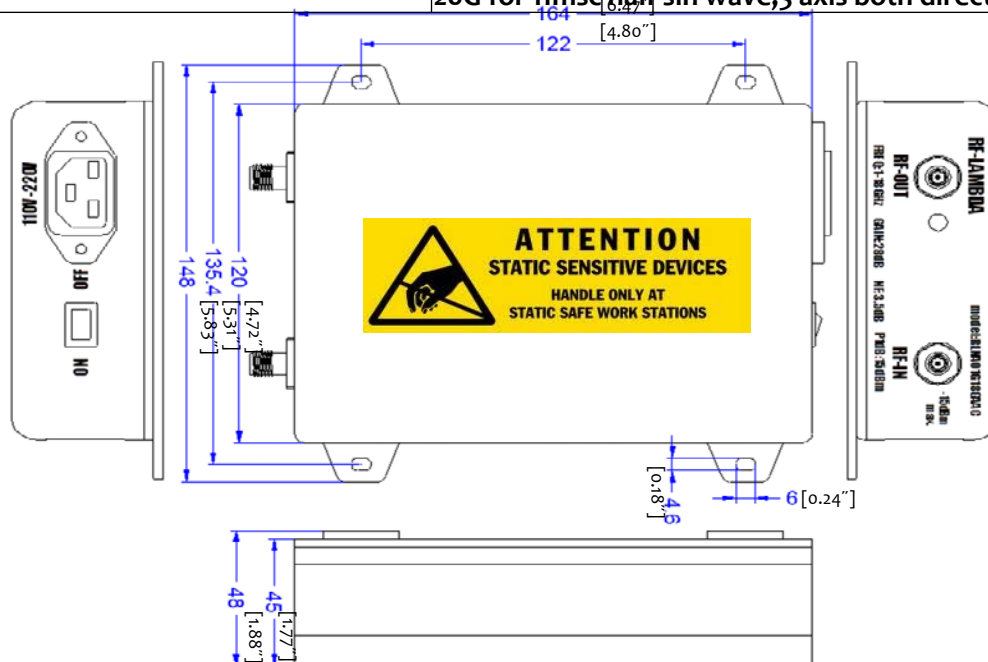
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Absolute Maximum Ratings	
Biasing	110V / 220V AC
Input RF power	-10dBm
Storage Temperature (C°)	-50 ~ +125

Ordering Information		
Part No	ECCN	Description
RAMP16G45GA	3A001.b.2.d	16-45GHz LNA Amplifier

Biasing Up Procedure	
Step 1	Connect input and output
Step 2	Connect Ground Pin
Step 3	Connect biasing
Power OFF Procedure	
Step 1	Turn off biasing
Step 2	Remove RF connection
Step 3	Remove Ground.

Environment specifications	
Operational Temperature (C°)	-45 ~ +85
Storage Temperature (C°)	-50 ~ +125
Altitude	30,000 ft. (Controlled environment)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msc half sin wave, 3 axis both directions



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