

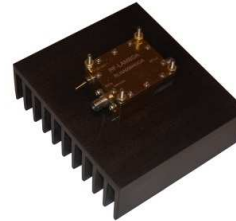


Ultra Wide Band Low Noise Amplifier 0.05GHz~40GHz

DC +12V Model

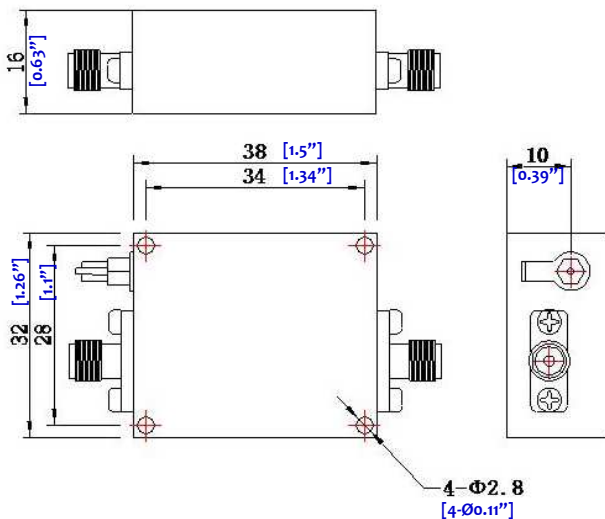
AC 110V/220V Model

- High Gain 28dB
- Applicable for base station, repeaters of cellular network
- LMDS multi-carrier operation
- Aerospace and military applications
- High Peak to average handle capability
- High Linearity and low noise figure
- All specifications can be modified upon request



Specification	Min.	Typ.	Max.	Units
Frequency	0.05		40	GHz
Noise Figure		5.0	7.5	dB
Gain (All temp)	25	28	-	dB
Flatness	-	±3.0	±4.0	dB
Input Power			-15	dBm
Isolation	-	50		dB
P1dB (Full Band)	14.0	16.0	-	dBm
OIP3		25		dBm
Input VSWR	-	2.5	3.5	:1
Output VSWR	-	2.5	3.5	:1
Voltage	11.0	12.0	15.0	V
Current		400	500	mA

*** AC model available upon request.



Heat Sink required during operation

Package: RL-03

Mechanical Environmental Spec.	
Operation Temperature:	-20°C to 70°C base plate
Vibration:	14.2g RMS (15-2000Hz) functional
	16.2g RMS (15-2000Hz) endurance, 1 hour /axis
Connectors:	RF SMA-F / N-F Removable
	Supply RFI filter solder Pin (or 110V AC power plug)
Mechanical shock	30G, 11mSec half sin wave, 3 axis both directions
Humidity	95% relative humidity, 65°C 96Hour
MTBF	50000 hour min
Case:	Conductive no paint
Dimension (L x W x H):	See Drawing (DC model)
	7.87" X 4.72" X 1.00" (AC model)

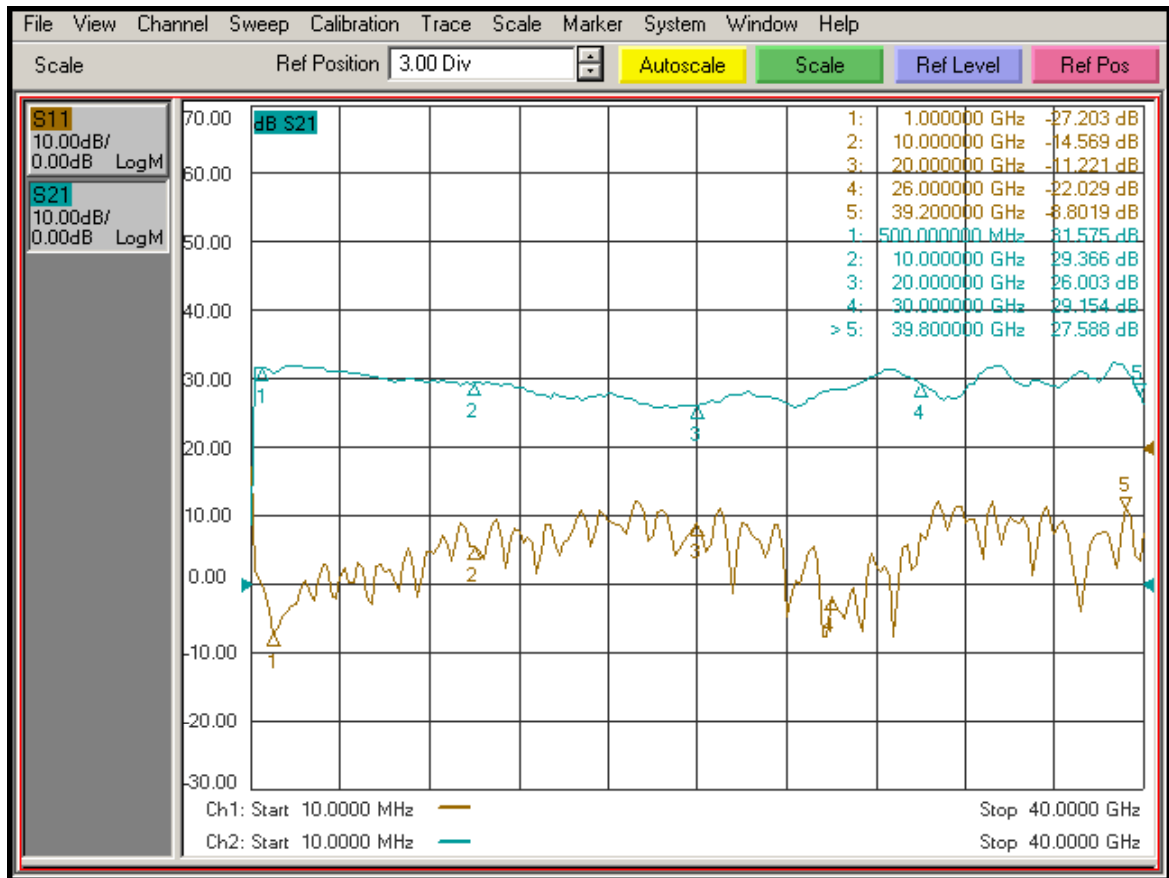
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RF-LAMBDA

The power beyond expectations

RLNA05M40GA



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SPA Test Report							
Product Type	LNA	Part Number	RLNA05M40GA	SN	1#		
Specification							
SN	Frequency (GHz)	S11 (dB)	S21 (dB)	S12 (dB)	S22 (dB)	P1dB (dBm)	Idd (mA)
Temperature 25°C							
1#	0.50	-20.30	30.70	-57	-15.7	16.90	440.00
1#	10.00	-15.60	30.40	-53	-20.1	16.80	
1#	20.00	-21.00	29.60	-42	-20.2	16.90	
1#	28.00	-13.10	33.30	-35	-12.2	16.70	
1#	36.00	-9.80	28.00	-46	-10.3	16.50	