

A-LNAK4-380053-S5S5

• Noise Figure: 2.0dB Typ.

- Gain: 35dB Typ.
- P1dB Output Power: +15dBm Typ.

Wide Band Low Noise Amplifier





6-18GHz



RF Parameters										
	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Unit
Frequency Range	6		8	8		12	12		18	GHz
Gain	35	39		35	38		35	38		dB
Gain Flatness		±0.5	±0.8		±1.5	±2.0		±1.5	±2.0	dB
Gain Variation Over Temperature (-45C~+85C)		±1.0			±1.0			±1.5		dB
Noise Figure		2.8	3.0		2.2	2.5		2.4	3.0	dB
Input Return Loss	10	12		10	12		9	11		dB
Output Return Loss	6	8		10	15		12	18		dB
Output Power for 1 dB Compression (P1dB)	13	15		14	16		14	16		dBm
Saturated Output Power (Psat)		16			17			17		dBm
Output Third Order Intercept (IP3)		24			26			26		dBm
Isolation S12		-60			-60			-55		dB
Supply Current (Idd) (Vcc=+12V)		180	220		180	220		180	220	mA
Input Max Power (no damage)		-12			-12			-12		dBm

Physical Specifications					
Weight	0.35 ounces (10g)	Impedance	50 ohms		
Input / Output Connectors	SMA Female	Material	Aluminium		
Finish	Standard: Gold 40 micron; Nickel 220 micron thickness	Package Sealing	Epoxy Sealing		



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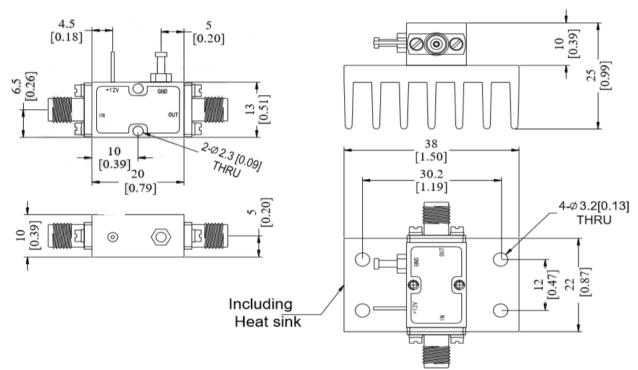


Absolute Maximum Ratings				
Operating Voltage	+12V±10%			
RF Input Power (Vcc= +12V)	-10dBm			
Biasing Up Procedure				
Step 1	Connect Ground Pin			
Step 2	Connect input and output			
Step 3	Connect +12V biasing			
Power Off Procedure				
Step 1	Turn off +12V biasing			
Step 2	Remove RF connection			
Step 3	Remove Ground			

Environmental			
Operating Temperature	-45°C to +85°C		
Storage Temperature	-55°C to +125°C		
Altitude	30,000 ft. max		
Vibration	25g RMS (15 degree 2KHz) endurance, 1 hour per axis		
Humidity	100% RH at 35°C, 95% RH at 40°C max.		
Shock	20g for 11msec half sine wave, 3 axis both directions		

All Dimensions in mm [inches]

Heat Sink required during operation (Sold separately)



Note 1: The specification provided is at nominal bias voltage and at 25°C unless otherwise specified

Note 2: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy. Note 3: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

