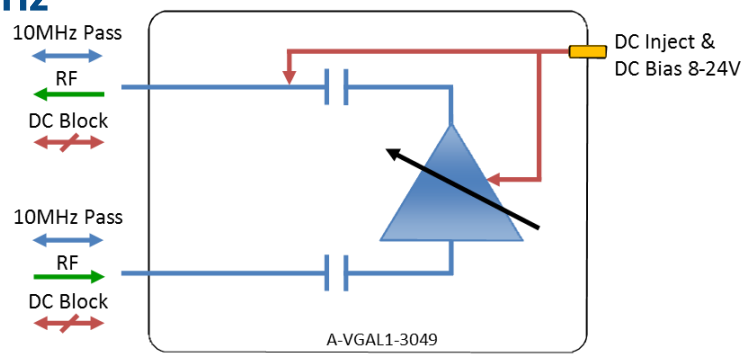
RF Components

Model Number:
A-VGAL1-3049

L-Band Smart Amplifier

850 - 2150 MHz



- 10 MHz pass
- DC blocked
- Remotely controlled with ETL's Smart Controller CTR-9900

Available with RF connector options:

- 50 Ω SMA
- 50 Ω N-type
- 50 Ω BNC
- 75 Ω BNC
- 75 Ω F-type.

Amplifier

RF Parameters						
A-VGAL1-3049-XXXX		S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range		850 - 2150 MHz				
RF Connectors		50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Gain (dB)		8 - 38	8 - 38	8 - 38	8 - 38	8 - 38
Gain vs Freq. variation (dB)	Typ.	± 0.75	± 0.75	± 0.8	± 1.0	± 1.0
	Max	± 1.5	± 1.5	± 1.8	± 2.0	± 2.0
Input Return Loss (dB)	Typ.	18	18	14	14	14
	Min	15	15	12	10	10
Output Return Loss (dB)	Typ.	18	18	14	14	14
	Min	15	15	12	10	10
Output P1dB GCP** (dB)	Typ.	15	15	15	15	15
	Min	13	13	13	13	13
Output IP3 (dBm)	Typ.	25	25	25	25	25
Noise Figure (dB)	Typ.	9	9	9	9	9
**Gain Compression Point						

Broadcast

Marine Oil & Gas

SNG & VSAT

Satellite Teleport

RF Components

Model Number: A-VGAL1-3049

L-Band Smart Amplifier

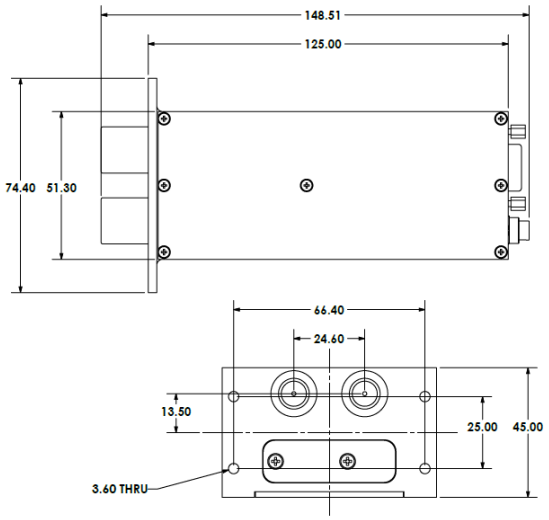
Technical specifications and operating parameters

Environmental		
Operating Temperature		0˚C to +55˚C
Storage Temperature		-20˚C to +75˚C
Location		Indoor use Only
Humidity	Max	85% non-condensing
Altitude	Max	10,000 feet

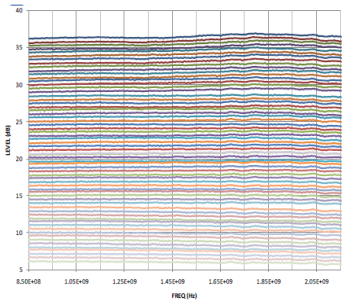
Max Operating Parameters	
Input RF Power	+24dBm
DC Voltage	28V on all RF ports
DC Current	500mA for LNB supply
DC Consumption	N/A

❗ Operation beyond these limits may cause instantaneous and permanent damage.

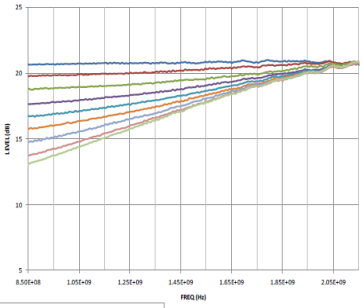
Physical Dimensions (mm)

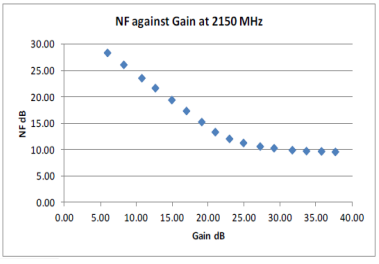


Gain Control Characteristics



Slope Control Characteristics





Note: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved specification accuracy.

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