

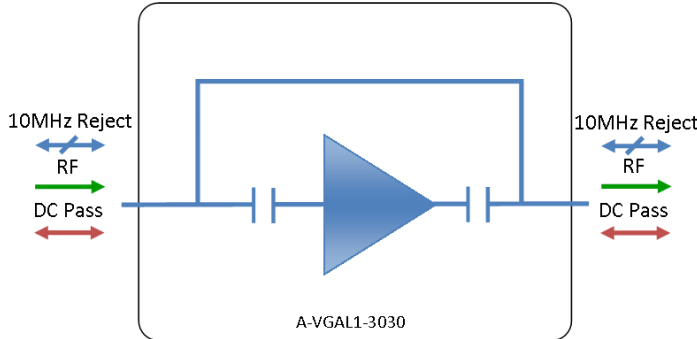


RF Components

L-band Variable Gain Amplifier

850-2150 MHz

Model Number:
A-VGAL1-3030



- Passes DC and blocks 10MHz
- Gain selectable from 0 to 30dB in 1dB gain steps
- Requires 8-24V inline Bias

Available with RF connector options:

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

Compact

Housed in rugged compact enclosure

Flexible Mounting

Tapped screw & through hole mounting options

8-24V
DC inline Bias

850-2150 MHz
Operating frequency range.

RF Parameters					
A-VGAL1-3030	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850-2150 MHz				
RF Connectors	50 Ω SMA	50 Ω N-Type	50 Ω BNC	75 Ω BNC	75 Ω F-Type
Gain (dB)	0-30	0-30	0-30	0-30	0-30
Flatness \pm (dB)	0.3	0.3	0.4	0.6	0.8
Input Return Loss (dB)	15	15	14	10	10
	12	12	12	8	8
Output Return Loss (dB)	15	15	14	10	10
	12	12	12	8	8
Output P1dB GCP** (dBm)	18	18	18	18	18
	15	15	15	15	15
Output IP3 (dBm)	27	27	27	27	27
Noise Figure (dB)	12	12	12	12	12
**Gain Compression Point					

Broadcast



Marine Oil & Gas



SNG & VSAT



Satellite Teleport





RF Components

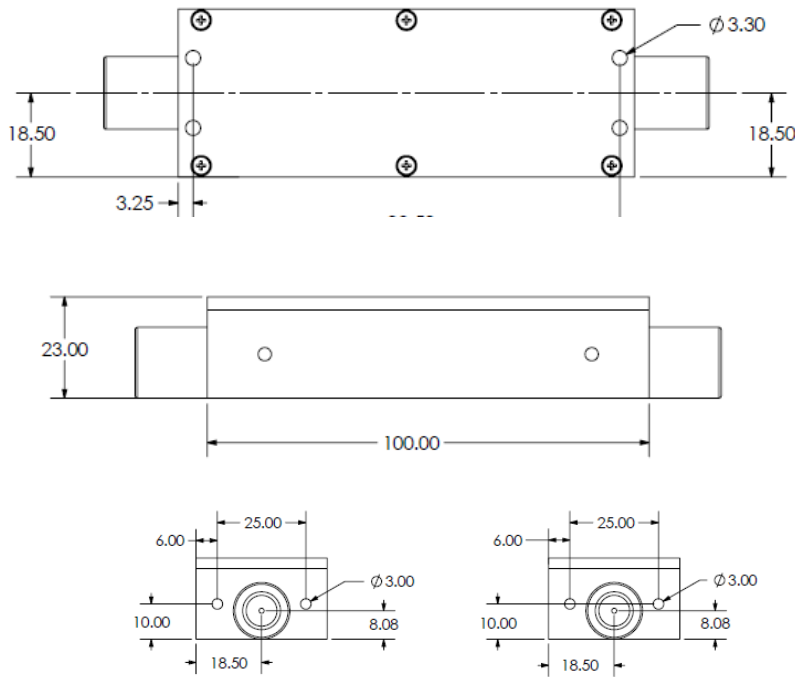
Model Number: A-VGAL1-3030 L-band Variable Gain Amplifier

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 above mean sea level

Max Operating Parameters	
Input RF Power	16 dBm (40mW)
DC Voltage	35V on RF ports, 30V on DC Bias
DC Current	Max 2A Max
DC Consumption	200 mA Max 160 mA Typ

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

Physical Dimensions (mm)



Gain Settings							
Switch Settings	1	2	3	4	5	6	Other Features
Attenuation	16	8	4	2	1	n/a	Attenuation settings when the selected switch is at ON state
Max Gain	1	1	1	1	1	n/a	Max gain (0dB attenuation setting)
Min Gain	0	0	0	0	0	n/a	Min gain (31dB attenuation setting)

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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