

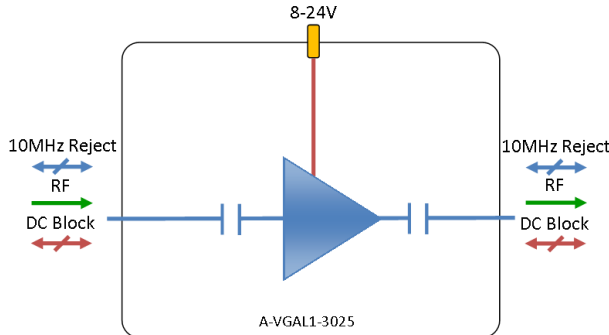


RF Components

L-band Variable Gain Amplifier

850-2150 MHz

Model Number:
A-VGAL1-3025



- Flat frequency versus gain characteristics
- DC and 10MHz block
- Gain selectable from 0 to 30dB
- Requires 8-24V for external 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

External DC powering

850-2150 MHz

Operating frequency range.

RF Parameters					
A-VGAL1-3025	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)	0-30	0-30	0-30	0-30	0-30
Flatness ± (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** (dB)	15	15	15	15	15
	12	12	12	12	12
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

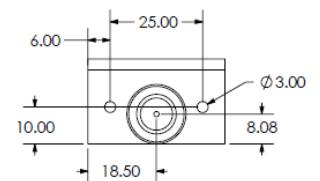
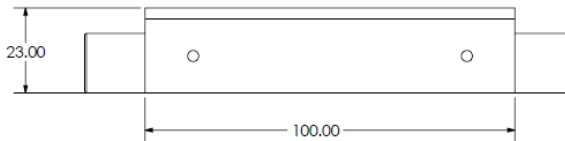
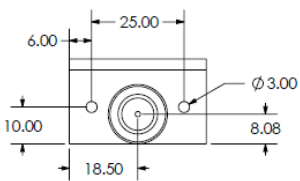
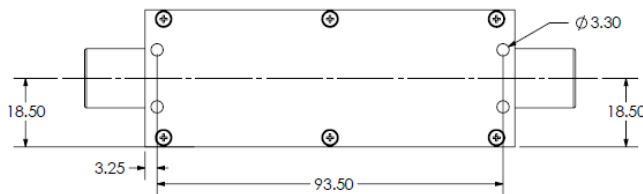
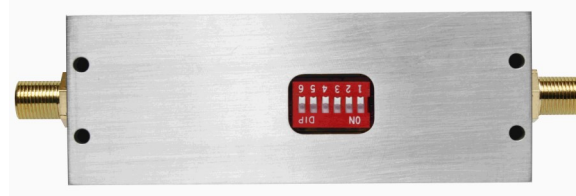
Model Number: A-VGAL1-3025 L-band Variable Gain Amplifier

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

Max Operating Parameters		
Input RF Power		+24 dBm (250mW)
DC Voltage		35V on any RF port
DC Current	Max	N/A
DC Consumption		100mA Max, 80mA typical

! 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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