



A-VGAL1-3025

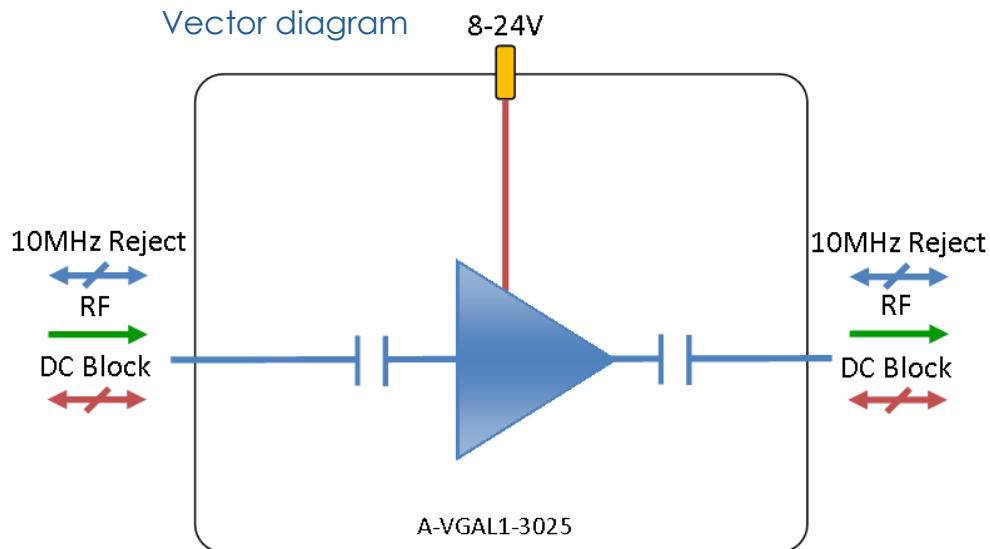
RF Engineering &
Custom Build

L-band Variable Gain Amplifier



The 3025 Variable gain amplifier offer flat frequency versus gain characteristics over 850 to 2150MHz, ports are DC and 10MHz block. Gain selectable from 0 to 30dB Gain. Requires 8-24V for external Bias

This component is available with the following RF connector options: 50 Ω SMA, N-type, BNC and 75 Ω BNC or F-type.



RF Parameters

A-VGAL1-3025-xxxx	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850-2150 MHz	850-2150 MHz	850-2150 MHz	850-2150 MHz	850-2150 MHz
RF Connectors	50 Ω SMA	50 Ω N-Type	50 Ω BNC	75 Ω BNC	75 Ω F-Type
Gain*	0-30 dB	0-30 dB	0-30 dB	0-30 dB	0-30 dB
Flatness*	± 0.3 dB	± 0.3 dB	± 0.4 dB	± 0.6 dB	± 0.8 dB
Input Return Loss	15 dB typ	15 dB typ	14 dB typ	10 dB typ	10 dB typ
	12 dB min	12 dB min	12 dB min	8 dB min	8 dB min
Output Return Loss	15 dB typ	15 dB typ	14 dB typ	10 dB typ	10 dB typ
	12 dB min	12 dB min	12 dB min	8 dB min	8 dB min
1 dB GCP*	15 dBm typ	15 dBm typ	15 dBm typ	15 dBm typ	15 dBm typ
	12 dBm min	12 dBm min	12 dBm min	12 dBm min	12dBm min
IP3*	27	27	27	27	27
Noise Figure*	12	12	12	12	12

1dB Gain Compression Point (1dB GCP) is in relation to output power.

* At max gain setting

BROADCAST



MARINE OIL & GAS



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SATELLITE TELEPORT





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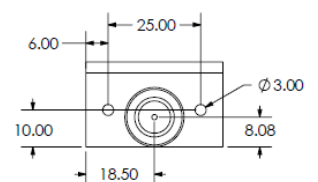
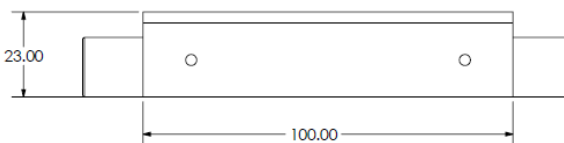
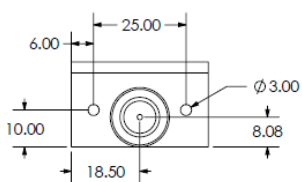
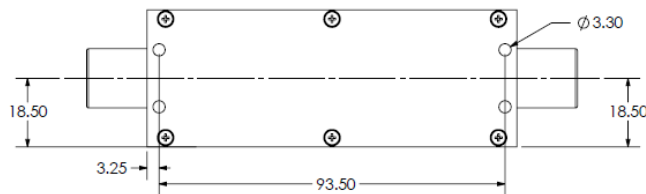
L-band Variable Gain Amplifier

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

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

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

Mechanical Dimensions



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)

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Feature set for alternative L-Band Gain Block Amplifiers

Model Number	Bias Option	Frequency vs. Gain	Gain Options (dB)	Other Features
A-GABL1-3110-3114	External	Flat	10-30	DC block on all ports
A-GABL1-3204	External	Flat	Unity	10MHz pass and DC block on both ports
A-GABL1-3205	External	Flat	Unity	10MHz pass and DC block on both ports
A-GABL1-3140-3143	External	Flat	10-25	10MHz pass and DC block on both ports
A-GABL1-3206	External	Flat	20	10MHz pass and DC block on both ports
A-GABL1-3217-3218	External	Flat	20-25	10MHz and DC pass on all ports
A-GABL1-3210	External	Flat	10	10MHz and DC pass on all ports
A-GABL1-3216	External	Flat	25	10MHz and DC pass on all ports
A-GABL1-3213-3214	External	Flat	10-20	DC block on output port
A-GABL1-3222	External	Flat	30	DC block on output port
A-GABS2-3223	External	Flat	25	DC block on all ports
A-GABL1-3130-3134	In-line	Flat	10-30	DC pass on all ports
A-GABL1-3215	In-line	Flat	25	DC block on all ports
A-GABL1-3219-3221	In-line	Flat	10-20	DC block on input port only
A-GABL1-3135	In-line	Flat	10-20	DC block on input port only
A-GABL1-3136	In-line	Flat	Unity	10MHz and DC pass on all ports
A-GABL1-3137	In-line	Flat	Unity	10MHz and DC pass on all ports
A-GABL1-3139	In-line	Flat	10	10MHz and DC pass on all ports
A-GABL1-3207-3209	In-line	Flat	15-28	10MHz and DC pass on all ports
A-GABL1-3331-3335	In-line	Flat	10-30	DC pass on all ports Tubular design
A-GABL1-3336-3340	In-line	Flat	10-30	DC block on input port Tubular design
A-GABL1-3341-3345	In-line	Flat	10-30	10MHz and DC pass on all ports Tubular design
A-GABL1-3347-3351	In-line	Flat	10-30	DC block on output port Tubular design
A-GABL1-3352-3356	In-line	Flat	10-30	10MHz and DC block on all ports Tubular design
A-GABL1-3357-3361	In-line	Flat	10-30	10MHz and DC block on all ports Tubular design
A-GABL1-3145-3147	External	3dB +ve slope	10-20	DC block on all ports
A-GABL1-3229	External	3dB +ve slope	10	DC pass on all ports
A-GABL1-3151-3153	In-line	3dB +ve slope	10-20	DC block on input port only
A-GABL1-3330	In-line	3dB +ve slope	10	DC pass on all ports

* Custom designs available on request

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