

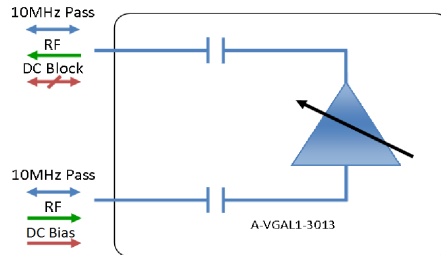


Model Number:
A-VGAL1-3013

RF Components

Variable Gain L-Band Amplifier

850 - 2150 MHz



- 0 to 30dB gain settable in 1dB steps
- Built in regulator
- Requires 24V on input RF port.
- 10MHz block on both ports, RF output is DC blocked and Input is DC Bias.

Available with RF connector options:

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

Compact

Housed in rugged compact enclosure

Flexible Mounting

Tapped screw & through hole mounting options



850-2150 MHz
Operating frequency range. L-Band ready



RF Parameters					
A-VGAL1-3013-XXXX	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
Gain vs Freq. variation (dB)	Typ. ± 0.8	± 0.8	± 1.0	± 1.2	± 1.2
	Max ± 1.2	± 1.2	± 1.4	± 1.5	± 1.5
Input Return Loss (dB)	Typ. 20	20	20	14	14
	Min 15	15	15	10	10
Output Return Loss (dB)	Typ. 20	20	20	14	14
	Min 15	15	15	10	10
Output P1dB GCP** (dB)	Typ. 15	15	15	15	15
	Min 12	12	12	12	12
Output IP3 (dBm)	Typ. 30	30	30	30	30
Noise Figure (dB)	Typ. 8	8	8	8	8

**Gain Compression Point

Broadcast



Marine Oil & Gas



SNG & VSAT



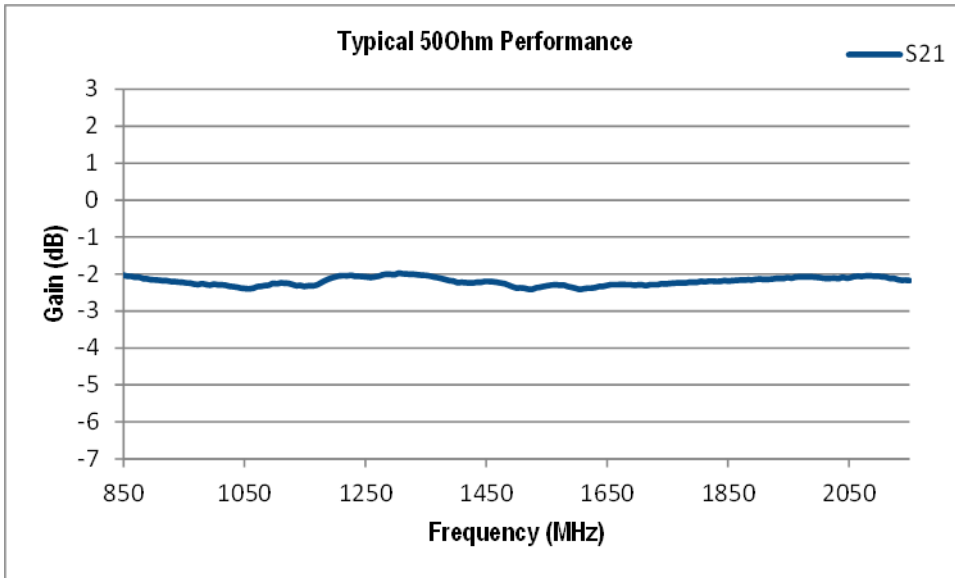
Satellite Teleport



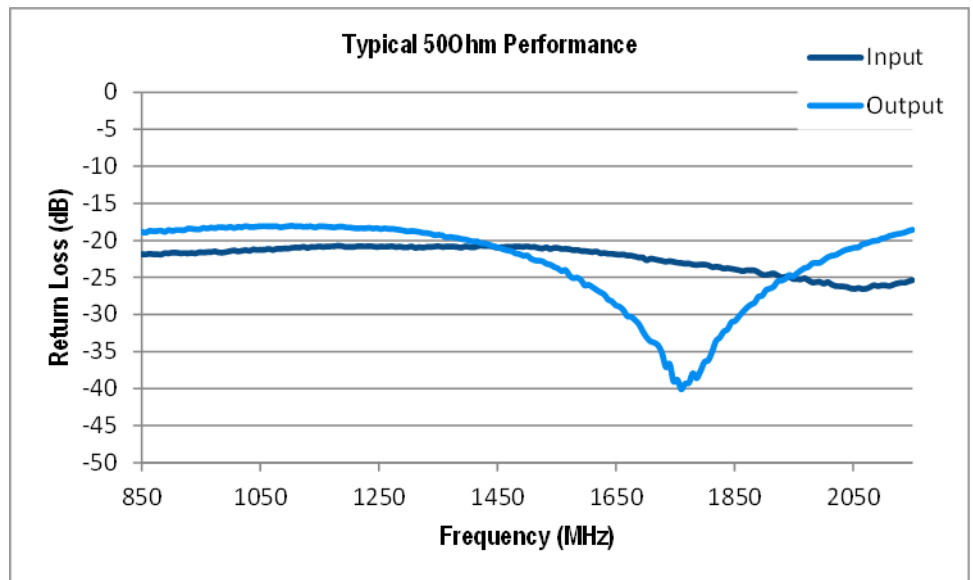


RF Components

Model Number:
A-VGAL1-3013



Gain (dB)



Return Loss (dB)

Broadcast



Marine Oil & Gas



SNG & VSAT



Satellite Teleport

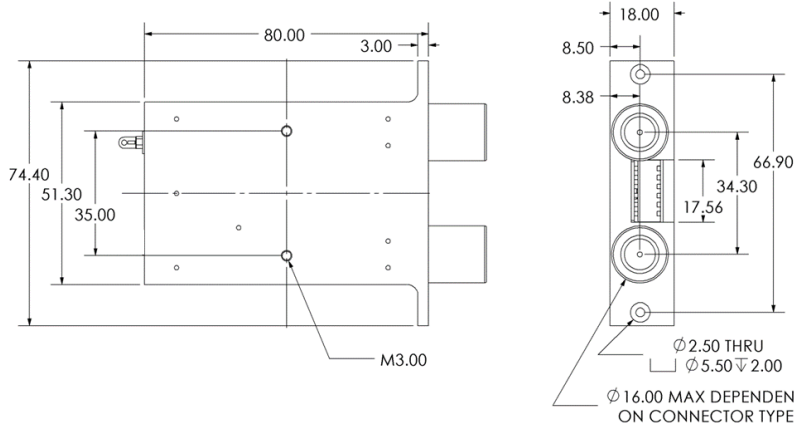




RF Components

Model Number:
A-VGAL1-3013
Variable Gain L-Band Amplifier

Physical Dimensions (mm)



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

Max Operating Parameters	
Input RF Power	+24dBm (40mW)
DC Voltage	Requires 24V on input RF port
DC Current	500mA

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

Gain Setting							Notes
Switch Settings	1	2	3	4	5	6	
Attenuation	16	8	4	2	1	n/a	Attenuation settings when the selected switch is at ON state
DC Injection	n/a	n/a	n/a	n/a	n/a	0 for DC OFF 1 for DC ON	Options A-VGAL1-3015 only
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)



VGA Mounting Panel
 Now available for mounting in our Scorpion 19" 1U chassis Model: SCP-1U-10

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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