

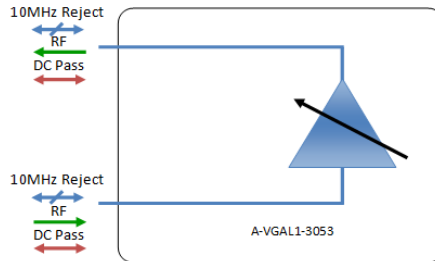


Model Number:  
**A-VGAL1-3053**

RF Components

# Variable Gain L-Band Amplifier

850 - 2150 MHz



- 0 to 30dB gain settable in 1dB steps
- Built in regulator
- Requires 8-24V on RF power line
- All ports 10MHz reject & DC pass

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



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



RF Parameters					
A-VGAL1-3053-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)	0 - 30	0 - 30	0 - 30	0 - 30	0 - 30
Gain vs Freq. variation (dB)	Typ.	± 0.8	± 0.8	± 1.0	± 1.2
	Max	± 1.2	± 1.2	± 1.4	± 1.5
Input Return Loss (dB)	Typ.	15	15	15	10
	Min	12	12	12	8
Output Return Loss (dB)	Typ.	15	15	15	10
	Min	12	12	12	8
Output P1dB GCP** (dB)	Typ.	18	18	18	18
	Min	15	15	15	15
Output IP3 (dBm)	Typ.	27	27	27	27
Noise Figure (dB)	Typ.	12	12	12	12

\*\*Gain Compression Point

### Broadcast



### Marine Oil & Gas



### SNG & VSAT



### Satellite Teleport

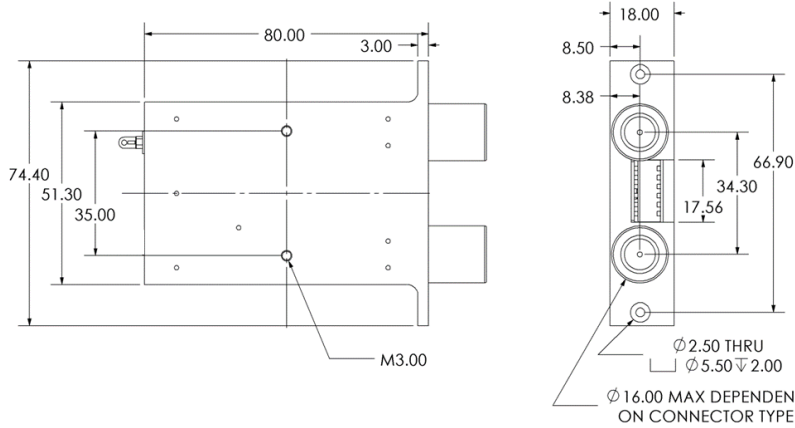




RF Components

Model Number:  
**A-VGAL1-3053**  
Variable Gain L-Band Amplifier

**Physical Dimensions (mm)**



Environmental	
Operating Temperature	-10°C to +65°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	24V on any 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)



**NEW**  
**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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