



RF Components

Variable Gain L-Band Amplifier

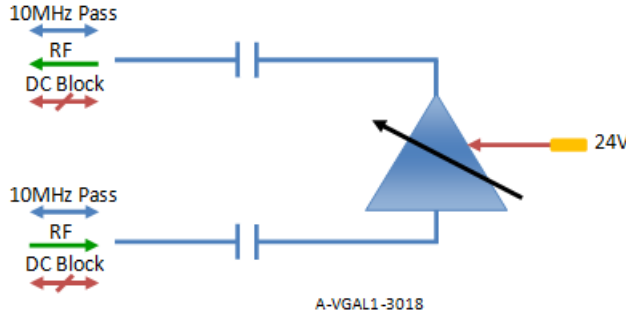
850 - 2150 MHz

Model Number:
A-VGAL1-3018

- 0 to 30dB gain settable in 1dB steps
- Built in regulator
- Requires 24V external powering
- All ports DC blocked & 10MHz pass

Available with RF connector options:

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



A-VGAL1-3018



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-VGAL1-3018-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.	20	20	20	14
	Min	15	15	15	10
Output Return Loss (dB)	Typ.	20	20	20	14
	Min	15	15	15	10
Output P1dB GCP** (dB)	Typ.	15	15	15	15
	Min	12	12	12	12
Output IP3 (dBm)	Typ.	30	30	30	30
Noise Figure (dB)	Typ.	8	8	8	8

**Gain Compression Point (measured at max gain)

Broadcast



Marine Oil & Gas



SNG & VSAT



Satellite Teleport

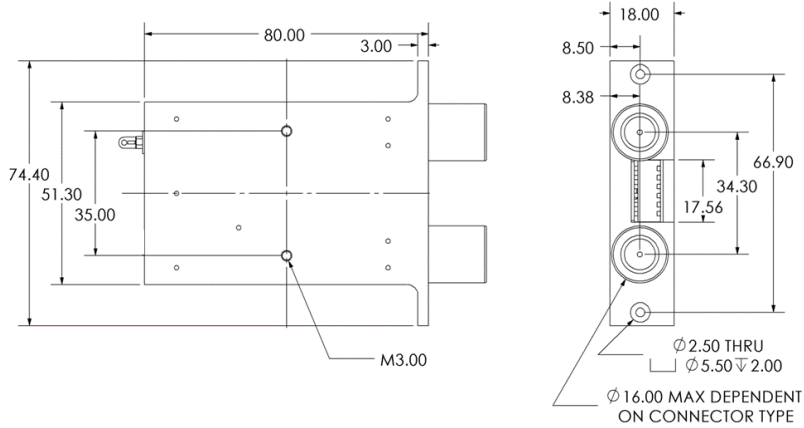




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Physical Dimensions (mm)



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 external powering
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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