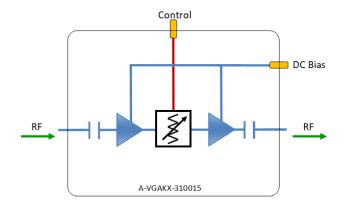


# Model Number: A-VGAKX-310015

**RF Components** 

# **Wideband Variable Gain Amplifier**

5-18 GHz



- 0-26dB Gain Range
- External DC power
- TTL/SPI control
- DIP switch control option also available (please enquire)

Available with RF connector options:

• 50 Ω 2.92mm



RF Parameters				
A-VGAKX-310015-XXXX				
	5 - 18GHz			
	0 - 26			
Gain Flatness (± dB) Full band Any 36MHz				
	0.5			
Тур	14			
Min	10			
Тур	23			
Min	18			
Тур	33			
Min	28			
Тур	3.5			
Max	4.5			
	Full band y 36MHz  Typ  Min  Typ  Min  Typ  Min  Typ  Min			

Broadcast Mar



**Marine Oil & Gas** 



SNG & VSAT



**Satellite Teleport** 





#### Technical specifications and operating parameters

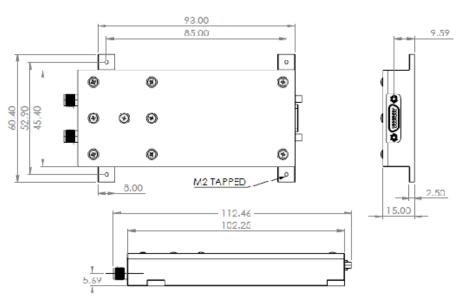
Environmental				
Operating Temperature		-20°C to +65°C		
Storage Temperature		-20°C to +65°C		
Location		Indoor use Only		
Humidity	Max	85% non-condensing		
Altitude	Max	10,000 feet		

	Interface
RF Connectors	50Ω 2.92mm Female
DC/Comms Connector	15W Micro-D Plug
Mounting	4 x M2 tapped holes

Max Operating Parameters				
Input RF Power	-10dBm			
DC Voltage	12 – 24V			
DC Current	N/A			
DC Consumption	250 mA			

Operation beyond these limits may cause instantaneous and permanent damage.

### **Physical Dimensions (mm)**





## Marine Oil & Gas



### **SNG & VSAT**



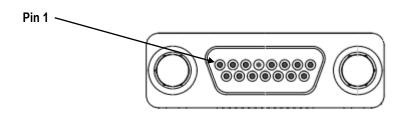
### Satellite Teleport



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#### Connector pin-out and control information



	Pin Descriptions				
Pin Number	Function	Description			
1	0.5dB bit				
2	1dB bit				
3	2dB bit	Pins are internally pulled up to 3V3, connect each pin to ground to activate the attenuator bits.  Leave all pins open/pulled high for max gain.  32dB bit pin only applicable on units with >30dB attenuation			
4	4dB bit				
5	8dB bit				
6	16dB bit	range. Must be left unconnected otherwise.			
7	32dB bit or N/C				
8	Alarm	Open-drain alarm. Pin is internally shorted to ground when an internal fault is detected. 250mA max current sink to this pin.			
9	Serial +	Serial data +ve pin (RS-485/422).			
10	GND	Must be connected to DC ground.			
11	Serial -	Serial data -ve pin (RS-485/422).			
12	N/C	Must be left unconnected.			
13	GND	Must be connected to DC ground.			
14	+V in	Supply voltage (12-24V DC).			
15	+V in	Supply voltage (12-24V DC).			

When using serial control to set the gain, all parallel control pins (pins 1-7) must be left unconnected or pulled high. If one of these pins is connected to ground then it will overwrite the last serial command setting. The parallel pins must all be set to N/C or pulled high again before another serial command can be sent.







