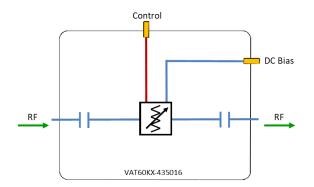


Model Number: VAT60KX-435016

RF Components

Wideband 60dB Variable Attenuator

1-24 GHz



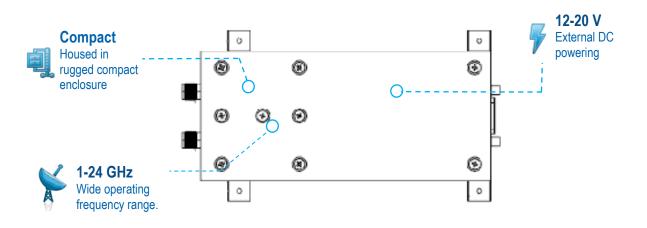
• Wide attenuation range 0-60dB

- Small 0.5dB Minimum Step
- 7.0dB Insertion Loss at 24GHz
- TTL/SPI control
- DIP switch control option also available (please enquire)

Available with RF connector options:

• 50 Ω 2.92mm













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Technical specifications and operating parameters

RF Parameters				
VAT60KX-435016		K5K5		
Frequency Range		1-24 GHz		
RF Connectors		50Ω 2.92mm		
Insertion Loss (dB)*	Max	7.0		
Attenuation Range (dB)		0-60		
Attenuation Step Size (dB)		0.5		
Return Loss (dB)	Min	8		
Input P0.1dB (dBm)	Min	27		
Input IP 3 (dBm)	Тур	50		
Performance at 25°C *At 0dB Attenuation Setting				

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	

Max Operating Parameters		
RF Power on Input RF Power on Output	25 dBm 16 dBm	
DC Voltage	12 –20V	
DC Current	N/A	
DC Consumption	250 mA	

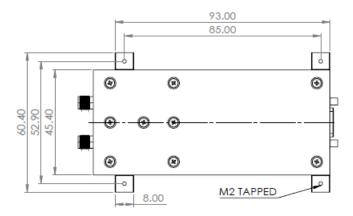
Operation beyond these limits may cause instantaneous and permanent damage.

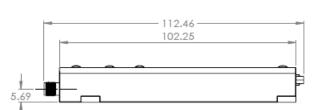
9.59

2.50

15.00

Physical Dimensions (mm)









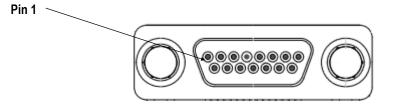
SNG & VSAT



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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	
4	4dB bit	ground to activate the attenuator bits. Leave all pins open/pulled high for max gain.	
5	8dB bit	32dB bit pin only applicable on units with >30dB attenuation	
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.









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