RF Components

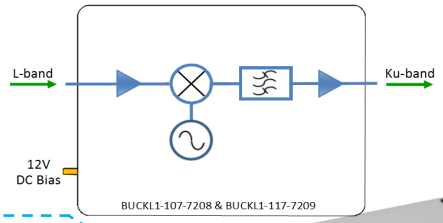
Model Number:
BUCK1-107-7208

- High stability frequency conversion with PLL oscillator set at 9750MHz.
- Requires 12V DC external powering

Available with RF connector options:
- 50 Ω SMA

Non-Inverting Block Up Converter

L-Band to Ku-Band 950-1950 MHz - 10.70-11.70 GHz



950-1950 MHz - 10.7-11.7 GHz
Operating frequency range, L-band to Ku-band.

Compact
Housed in rugged compact enclosure

12V
External DC powering

Mounting
Through hole

RF Parameters			
BUCK1-107-7208		50 ohm SMA	
LO Frequency		9750 MHz	
Ku Band Output Frequency		10700 - 11700 MHz	
L-band IF Input Frequency		950 - 1950 MHz	
Frequency Accuracy		±10 kHz	
Image band rejection	Min	60 dB	
Output P1dB	Min	+27 dBm	
Input Power for P1dB	Typ.	-12 dBm ±3dB	
Maximum Input Power (no damage)		0 dBm	
LO breakthrough	Max	-40 dBm	
Spurious Signals (in-band)	Typ.	-50 dBc	NB: -50 dBc typical is for L-Band IF inputs in the range 950-1050MHz. All other input frequencies are subject to -50 dBc Max.
Spurious Signals & Harmonics (DC to LO freq. & 14 to 20 GHz)	Typ.	-60 dBc	
Phase Noise (Typ.)		-70 dBc/Hz @ 1 kHz -80 dBc/Hz @ 10 KHz -95 dBc/Hz @ 100 KHz -120 dBc/Hz @ 1MHz	
Group Delay Variation		5 ns (Max.) in any 36MHz	NB: Within the pass band
Power Supply Voltage		+12 V DC ±5%	
Current Draw @ +12V DC	Max.	1.1 A	

Broadcast

Marine Oil & Gas

SNG & VSAT

Satellite Teleport

RF Components

Model Number:
BUCK1-107-7208
Non-Inverting Block Up Converter

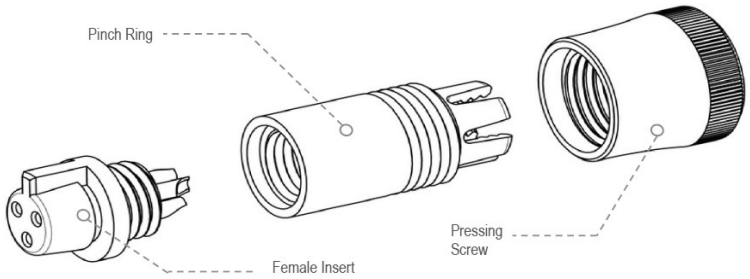
Technical specifications and operating parameters

Environmental		
Operating Temperature		0˚C to +40˚C
Storage Temperature		-40˚C to +85˚C
Location		Indoor use Only
Humidity	Max	85% non-condensing
Altitude	Max	10,000 feet

Physical Specification	
Connector Layout	All RF and DC connectors on the same face
Connector Types	RF - SMA Female ,3 Pin male socket DC binder
Mounting Holes	4-Off M4
Cable part no. :	ACC-CON-91021

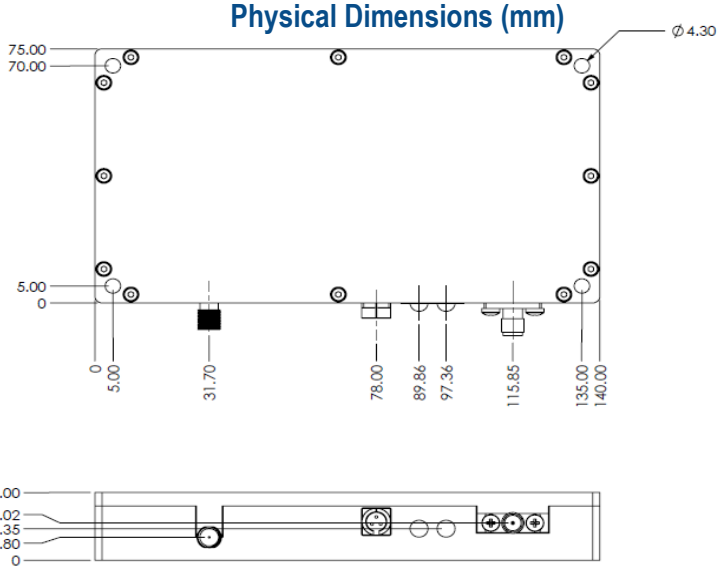
❗ Operation beyond these limits may cause instantaneous and permanent damage.

DC binder 3 Pin :



Recommended Wiring
Pin 1 - +12VDC
Pin 2 - GND
Pin3 - N/C
The chosen cable must be of sufficient capacity to handle 1A

Physical Dimensions (mm)



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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