

8-16 W LITE Ku-BAND BUC

DATASHEET



SATELLITE COMMUNICATIONS

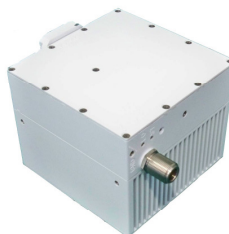
THE ALGA LOW COST LITE KU-BAND BUC

The Alga low cost LITE Ku-band BUC is built for VSAT stabilized platforms and mobile stations, while also offering benefits for fixed site and offshore applications. Weighing less than 5 lbs, makes it ideal for feed mounting.



KEY FEATURES

- From 8W to 16W P1db
- 4.7 x 4.7 x 4.0 inches
- 4.6lbs only
- Dual LO (Switchable).
Covers both regular and ext. Ku
- Superior phase noise, exceeding
IESS308/309



Dual LO
(Switchable)

COST EFFECTIVE SOLUTION FOR THE FUTURE

SALES@ALGA.CA | WWW.ALGA.CA | 1-514-694-8666

ALGA
microwave

LITE Ku-BAND BUC Specifications

ELECTRICAL CHARACTERISTICS

	8W	10W	12W	16W	
RF Output at 1 dB GCP	+39 dBm	+40 dBm	+41 dBm	+42 dBm	
Output Frequency Range	Standard Band: 14.00-14.50 GHz; Extended Band: 13.75-14.50 GHz				
Input Frequency Range	Standard Band: 950 – 1450 MHz; Extended Band: 950 – 1700 MHz				
Local Oscillator Frequency	Standard Band: 13.05 GHz ; Extended Band: 12.80 GHz				
Gain Stability Over Temperature	± 1.5 dB nominal; ± 2.0 dB max				
Gain Variation at fixed temperature	± 2.0 dB over full band;± 0.5 dB over 40 MHz				
Linear Gain	65 dB nominal				
Output VSWR	1.20:1				
Intermodulation	-25 dBc, with 2 equal carriers at 3dB total power back off from rated power				
10MHz Reference	0dBm ± 5.0 dB (Optional – Internal)				
	@ 100 Hz	@ 1 KHz	@ 10 KHz	@ 100 KHz	@ 1 MHz
Phase Noise Requirement	-135 dBc/Hz max	-140 dBc/Hz max	-143 dBc/Hz max	143 dBc/Hz max	
Local Oscillator Phase Noise	-62 dBc/Hz max	-73 dBc/Hz max	-90 dBc/Hz max	-100 dBc/Hz max	-110 dBc/Hz max
Output Spurious	-55 dBc max.				
Receive Band Noise Power Density	-150 dBm/Hz max.				
Input Impedance	50 Ohms				
Input VSWR	1.50:1				
Power requirement	+36 to +72 VDC (48 VDC nominal); +18 to +26 VDC 924 VDC nominal) OPTIONAL				
Power consumption (at rated power)	85W	90W	120W	130W	

INTERFACE

Output Interface	Waveguide, WR75G (Grooved)
Input Interface	N-Type Female, 50 Ohms

MECHANICAL

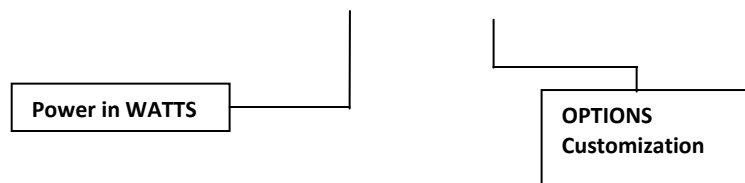
Cooling	Forced Air
Dimensions (L x W x H)	4.7 x 4.7 x 4.0 in (120 x 120 x 102 mm)
Weight	4.6 lbs (2.1 kg)

ENVIRONMENTAL

	Temperature Range (ambient)	Humidity	Altitude
	-40°C to + 55°C (operating); -40°C to + 75°C (storage)	0 to 100% (condensing)	10,000 ft ASL

ORDERING INFORMATION To place an order, build your specific Ku-BAND BUC by specifying the following in your ordering number:

Ordering Number: ALTX – LITE – KU - ____ - OPTIONS



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