

# 8-16 W LITE Ku-BAND BUC



SATELLITE COMMUNICATIONS

## THE MITEC VSAT™ LOW COST LITE KU-BUC

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



## KEY FEATURES

- From 8W to 16W  $P_1$ db
- 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

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# 8/10/12/16W KU-BAND BUC

ELECTRICAL CHARACTERISTICS	8 W	10W	12W	16W
RF Output at 1 dB GCP	+39 dBm	+40 dBm	+41 dBm	+42 dBm
Linear Gain	65 dB nominal			
Gain Variation at fixed temperature	Over full band: $\pm 2.0$ dB; over 40 MHz: $\pm 0.5$ dB			
Gain Stability Over Temperature Range	$\pm 1.5$ dB typ, $\pm 2.0$ max			
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			
Output VSWR	1.20:1			
Intermodulation	-25 dBc, with 2 equal carriers at 3 dB total power backoff from rated power			
10 MHz Reference	0 dBm $\pm 0.5$ dB, (Optional - Internal)			
Local Oscillator Phase Noise	Phase Noise Requirements: -135 dBc/Hz max @ 100 Hz, -140 dBc/Hz max @ 1 KHz, -143 dBc/Hz max @ 10 KHz; -143 dBc/Hz max @ 100 KHz -62 dBc/Hz max @ 100 Hz, -73 dBc/Hz max @ 1 KHz, -90 dBc/Hz max @ 10 KHz, -100 dBc/Hz max @ 100 KHz, -110 dBc/Hz max @ 1 MHz			
Output Spurious	-55 dBc max.			
Receive Band Noise Power Density	-150 dBm/Hz max.			
Input Impedance	50 Ohms			
Input VSWR	1.50:1			
Power Requirements	+36 to +72 VDC (48 VDC nominal)   +18 to +26 VDC (24 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" (120 x 120 x 102 mm)
Weight	4.6lbs (2.1 kg)

## ENVIRONMENTAL

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

## ORDERING INFORMATION

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

BUC Model Number

Ordering Number: ALTX - LITE - KU - - OPTIONS



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