



# 5W Ku-Band Block Up Converter

## KEY FEATURES

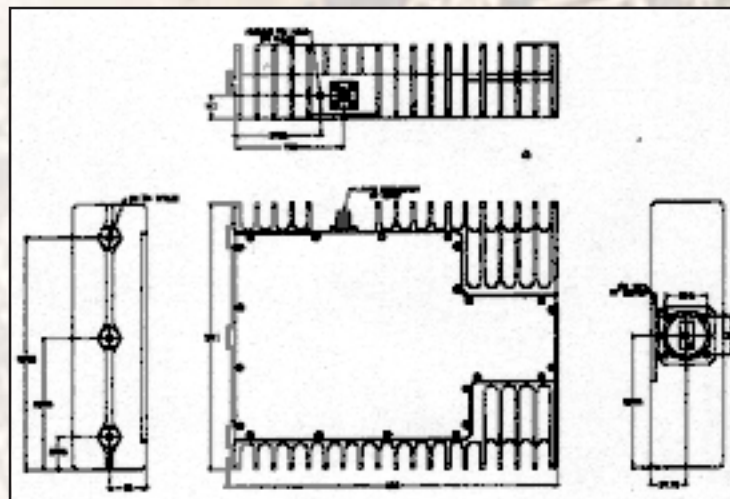
- ◆ Small package size and weight
- ◆ Feed horn mounting
- ◆ Powered through IF cable
- ◆ Low power consumption (<48W)
- ◆ High power efficiency (5W min @P1dB over temperature)
- ◆ Side Connector
- ◆ RoHS Compliant
- ◆ Two year Warranty
- ◆ Low in-band noise emissions
- ◆ Temperature compensated gain control

## ABO5KU / ABO5KUF



This small and light weight 5W L-to Ku-Band Block Up Converter is designed to be mounted on the feed horn. High power efficiency resulting in low current (<2 amps) consumption allows user to pass DC supply voltage via IF cable. The unit is ideal for network and point to point, data distribution, portable and emergency applications.

## Mechanical Drawing





## 5W Ku-Band Block Up Converter

### TECHNICAL SPECIFICATIONS

RF Frequency	14.00 to 14.50 GHz
Local Oscillator	13.05 GHz
IF Frequency	950 to 1,450 MHz
Output Power @ P1dB min over temperature	5W (+37 dBm min.)
IF Connector	N-Type or F-Type
Power Supply	+15 VDC~+26 VDC via IF Cable 48 W Max
Output Interface	WR-75 Grooved
Linear Gain	60 dB nominal
Gain Variation	
Over 54 MHz	1.5 dB p_p
Over 500 MHz	2.5 dB p_p
Over Operating Temperature	2.5 dB p_p @ Fixed Frequency
Requirement for External Reference	via IF cable
Frequency	10 MHz (sine-wave)
Input Power	-5 to +5 dBm @ Input port
Phase Noise	-30 dBc/Hz max. @ 10 Hz -60 dBc/Hz max. @ 100 Hz -70 dBc/Hz max. @ 1 kHz -80 dBc/Hz max. @ 10 kHz -90 dBc/Hz max. @ 100 kHz -100 dBc/Hz max @ 1 MHz
Noise Figure	20 dB max
Input V.S.W.R.	2 : 1 max
Output V.S.W.R.	2 : 1 max.
Mute	Shut off the BUC in case of L.O. unlocked
Input Interface	ABO5KU ABO5KUF
	50 Ohm (N-type IF In) 75 Ohm (F-type IF In)
Temperature Range (ambient)	
Operating	-40 deg C to +55 deg C
Storage	-40 deg C to +75 deg C
Dimensions & Housing	225 (L) x 180 (W) x 50 (H) mm 9" (L) x 7.2" (W) x 2" (H) inches
Weight	2.5 kg (5.5 lbs) max