



# 4W Ku-Band Block Up Converter

## KEY FEATURES

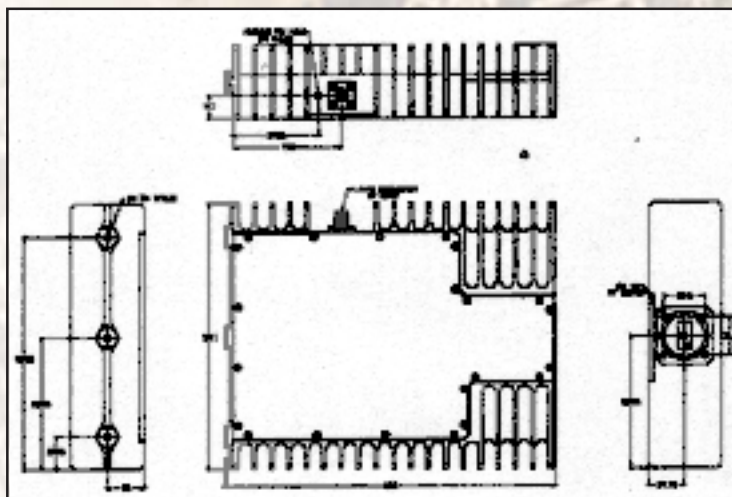
- ◆ Small package size and weight
- ◆ Feed horn mounting
- ◆ Powered through IF cable
- ◆ Low power consumption (<45W)
- ◆ High power efficiency (4W min @P1dB over temperature)
- ◆ Side Connector
- ◆ RoHS Compliant
- ◆ Two year Warranty
- ◆ Low in-band noise emissions
- ◆ Temperature compensated gain control

## ABO4KU / ABO4KUF



This small and light weight 4W 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





# 4W Ku-Band Block Up Converter

## TECHNICAL SPECIFICATIONS

<b>RF Frequency</b>	14.00 to 14.50 GHz
<b>Local Oscillator</b>	13.05 GHz
<b>IF Frequency</b>	950 to 1,450 MHz
<b>Output Power @ P1dB min over temperature</b>	4W (+36 dBm min.)
<b>IF Connector</b>	N-Type or F-Type
<b>Power Supply</b>	+15 VDC~+26 VDC via IF Cable 45 W Max
<b>Output Interface</b>	WR-75 Grooved
<b>Linear Gain</b>	60 dB nominal
<b>Gain Variation</b> Over 54 MHz Over 500 MHz Over Operating Temperature	1.5 dB p_p 2.5 dB p_p 2.5 dB p_p @ Fixed Frequency
<b>Requirement for External Reference</b>	via IF cable
Frequency Input Power	10 MHz (sine-wave) -5 to +5 dBm @ Input port
<b>Phase Noise</b>	-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
<b>Noise Figure</b>	20 dB max
<b>Input V.S.W.R.</b>	2 : 1 max
<b>Output V.S.W.R.</b>	2 : 1 max.
<b>Mute</b>	Shut off the BUC in case of L.O. unlocked
<b>Input Interface</b> ABO4KU ABO4KUF	50 Ohm (N-type IF In) 75 Ohm (F-type IF In)
<b>Temperature Range (ambient)</b> Operating Storage	-40 deg C to +55 deg C -40 deg C to +75 deg C
<b>Dimensions &amp; Housing</b>	225 (L) x 180 (W) x 50 (H) mm 9" (L) x 7.2" (W) x 2" (H) inches
<b>Weight</b>	2.5 kg (5.5 lbs) max