

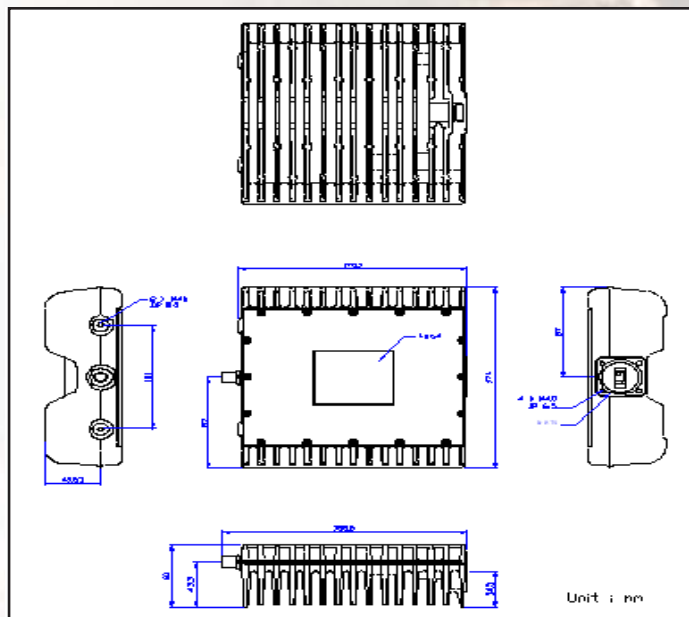


# 4W Ku-Band Block Up Converter

## KEY FEATURES

- ◆ Small package size and weight
- ◆ Feed horn mounting
- ◆ Powered through IF cable
- ◆ Low power consumption (<38W)
- ◆ High power efficiency (4W min @P1dB over temperature)
- ◆ RoHS compliant
- ◆ Three-year warranty

### Mechanical Drawing



## ABA4KU / ABA4KUF



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 ( $\leq 2$  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.



# 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~+24 VDC via IF cable 38 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	0.7 dB p_p 2.0 dB p_p 2.2 dB p_p @ fixed frequency
<b>Over operating temperature</b>	2.2 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>	-53 dBc/Hz max. @ 10 Hz -63 dBc/Hz max. @ 100 Hz -73 dBc/Hz max. @ 1 kHz -83 dBc/Hz max. @ 10 kHz -93 dBc/Hz max. @ 100 kHz -110 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> ABA4KU ABA4KUF	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>	176 (L) x 174 (W) x 60 (H) mm 6.95" (L) x 6.9" (W) x 2.4" (H)
<b>Weight</b>	1.9 kg (4.18 lbs) max