

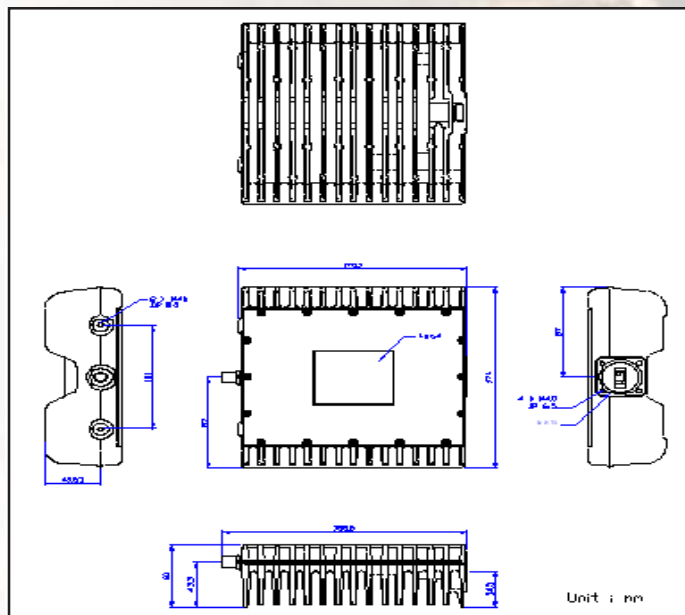


4W Ku-Band Block Up Converter

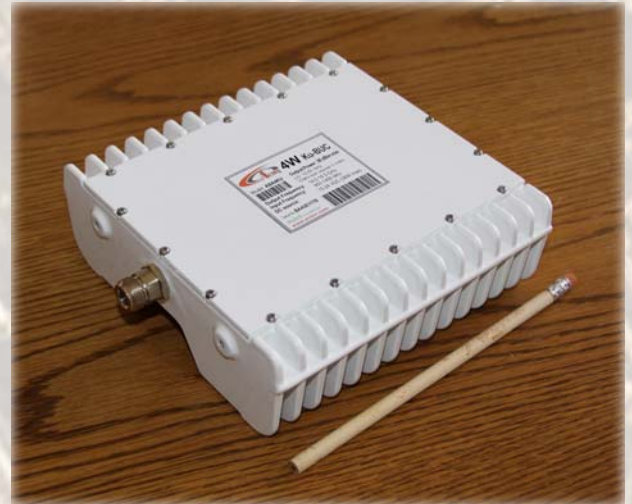
KEY FEATURES

- ◆ 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 (≤ 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

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	4W (+36 dBm min.)
IF connector	N-type or F-type
Power supply	+15 VDC~+24 VDC via IF cable 38 W max
Output interface	WR-75 Grooved
Linear gain	60 dB nominal
Gain variation over 54 MHz over 500 MHz	0.7 dB p_p 2.0 dB p_p 2.2 dB p_p @ fixed frequency
Over operating temperature	2.2 dB p_p @ fixed frequency
Requirement for external reference	via IF cable
frequency input power	10 MHz (sine-wave) -5 to +5 dBm @ input port
Phase noise	-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
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 ABA4KU ABA4KUF	50 Ohm (N-type IF in) 75 Ohm (F-type IF in)
Temperature range (ambient) operating storage	-40 deg C to +55 deg C -40 deg C to +75 deg C
Dimensions & housing	176 (L) x 174 (W) x 60 (H) mm 6.95" (L) x 6.9" (W) x 2.4" (H)
Weight	1.9 kg (4.18 lbs) max