



3W Ku-Band Block Up Converter

KEY FEATURES

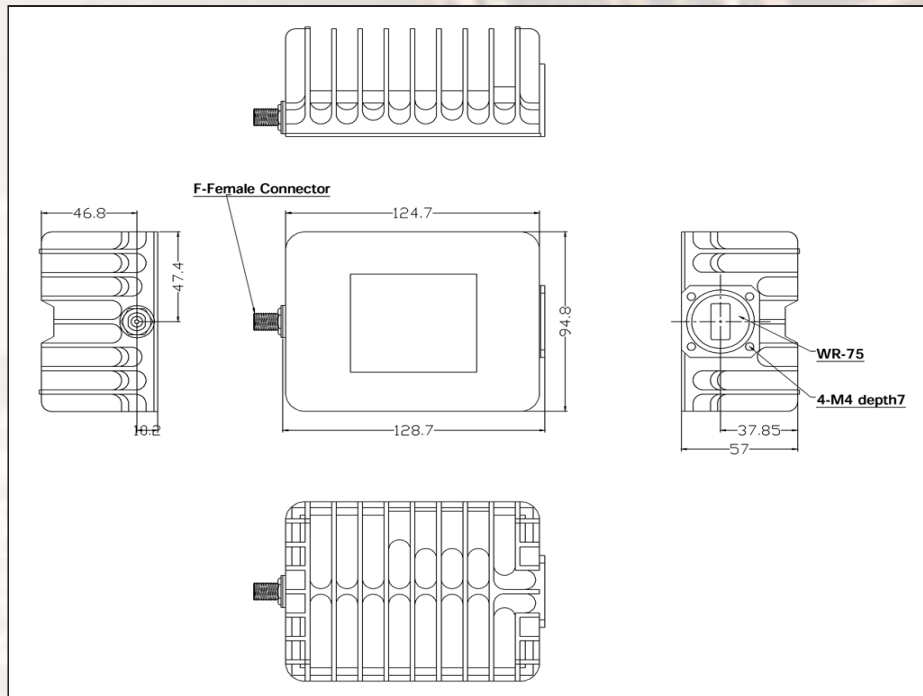
- ◆ Smallest package size and weight
- ◆ Feed horn mounting
- ◆ Powered through IF cable
- ◆ Low power consumption (<18W)
- ◆ 14.00-14.50 GHz / 13.75-14.25 GHz / 13.75-14.50 GHz options
- ◆ High power efficiency (3W min @P1dB over temperature)
- ◆ RoHS compliant
- ◆ Three-year warranty

ABAN3KU / ABAN3KUF
ABAN3KUL / ABAN3KULF
ABAN3KUX / ABAN3KUXF



This small and light weight 3W L-To Ku-Band Block Up Converter is designed to be mounted on the feed horn. High power efficiency resulting in low current (< 1 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



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TECHNICAL SPECIFICATIONS

RF frequency	ABAN3KU ABAN3KUL ABAN3KUX	14.00 to 14.50 GHz 13.75 to 14.25 GHz 13.75 to 14.50 GHz
Local oscillator	ABAN3KU ABAN3KUL ABAN3KUX	13.05 GHz 12.80 GHz 12.80 GHz
IF frequency		950 to 1,700 MHz
Output power @ P1dB min over temperature		3W (+35 dBm min.)
IF connector		N-type or F-type
Power supply		+15 VDC~+24 VDC via IF cable 18 W max
Output interface		WR-75 Grooved
Gain		60 dB nominal
IMD3		-32 dBc max
L.O. leakage		-50 dBm max
Spurious		-50 dBc max
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		
Requirement for external reference		via IF cable
frequency		10 MHz (sine-wave)
input power		-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	ABAN3KU ABAN3KUF	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		128.7 (L) x 94.8 (W) x 57 (H) mm 5.06" (L) x 3.73" (W) x 2.24" (H)
Weight		0.72 kg (1.58 lbs) max