6W Ku-Band Block Up Converter

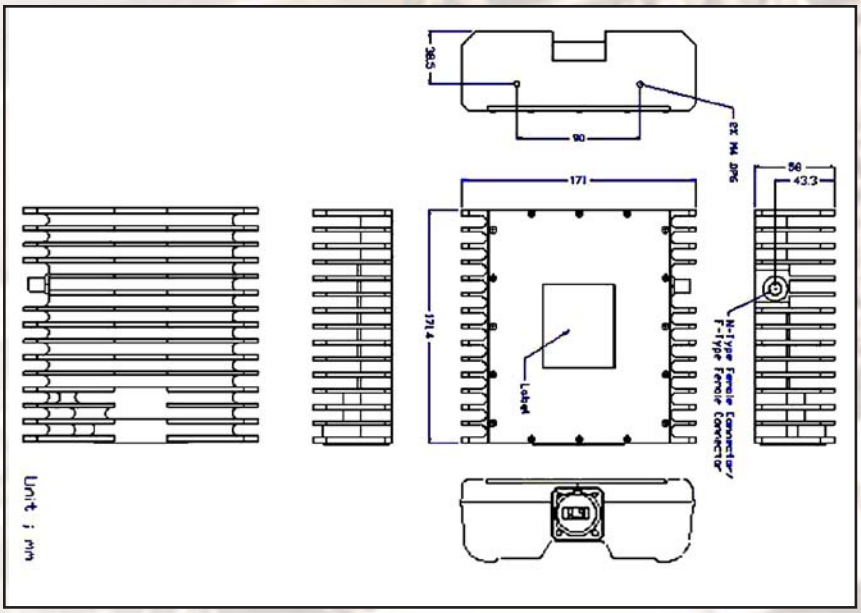
KEY FEATURES

- Small package size and weight
- Feed horn mounting
- Powered through IF cable
- Low power consumption (<44W)
- High power efficiency (6W min @P1dB over temperature)
- Side connector
- 14.00-14.50 GHz / 13.75-14.25 GHz / 13.75-14.50 GHz options
- RoHS compliant
- Three-year warranty

ABA6KUS / ABA6KUSF
ABA6KUL / ABA6KULF
ABA6KUX / ABA6KUXF

This small and light weight 6W 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



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TECHNICAL SPECIFICATIONS		
RF frequency	**ABA6KUS** **ABA6KUL** **ABA6KUX**	14.00 to 14.50 GHz 13.75 to 14.25 GHz 13.75 to 14.50 GHz
Local oscillator	**ABA6KUS** **ABA6KUL** **ABA6KUX**	13.05 GHz 12.80 GHz 12.80 GHz
IF frequency		950 to 1,700 MHz
Output power @ P1dB min over temperature		6W (+38 dBm min.)
IF connector		N-type or F-type
Power supply		+15 VDC~+24 VDC via IF cable 44 W max
Output interface		WR-75 Grooved
Gain		60 dB nominal
IMD3		-30 dBc max
L.O. leakage		-50 dBm max
Spurious		-50 dBc max
Gain variation **over 54 MHz** **over 500 MHz** **Over operating temperature**		 0.7 dB p_p 2.0 dB p_p 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	**ABA6KUS** **ABA6KUSF**	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		172.4 (L) x 171 (W) x 58 (H) mm 6.89” (L) x 6.84” (W) x 2.32” (H)
Weight		1.9 kg (4.18 lbs) max