



2W Ku-Band Block Up Converter

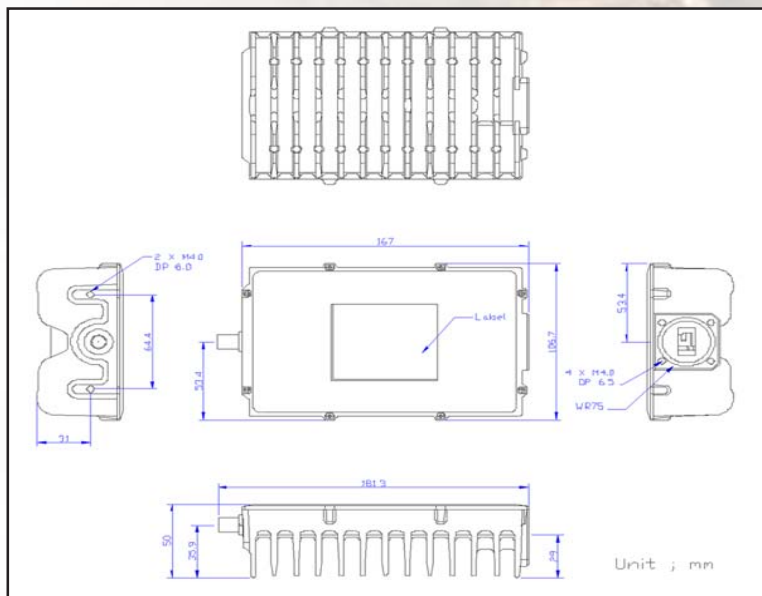
KEY FEATURES

- ◆ Small package size and weight
- ◆ Feed horn mounting
- ◆ Powered through IF cable
- ◆ Low power consumption (<17W)
- ◆ High power efficiency (2W min @P1dB over temperature)
- ◆ RoHS compliant
- ◆ Three-year warranty
- ◆ 14.00-14.50 GHz / 13.75-14.25 GHz / 13.75-14.50 GHz options

ABA2KU / ABA2KUF
ABA2KUL / ABA2KULF
ABA2KUX / ABA2KUXF



Mechanical Drawing



This small and light weight 2W 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.



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TECHNICAL SPECIFICATIONS		
RF frequency	ABA2KU ABA2KUL ABA2KUX	14.00 to 14.50 GHz 13.75 to 14.25 GHz 13.75 to 14.50 GHz
Local oscillator	ABA2KU ABA2KUL ABA2KUX	13.05 GHz 12.80 GHz 12.80 GHz
IF frequency		950 to 1,700 MHz
Output power @ P1dB min over temperature		2W (+33 dBm min.)
IF connector		N-type or F-type
Power supply		+15 VDC~+24 VDC via IF cable 17 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
Over operating temperature		2.2 dB p_p @ fixed frequency
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	ABA2KU ABA2KUF	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		165 (L) x 107 (W) x 49 (H) mm 6.6" (L) x 4.3" (W) x 1.9" (H)
Weight		1.1 kg (2.2 lbs) max