



4W Low Ku-Band Block Up Converter

KEY FEATURES

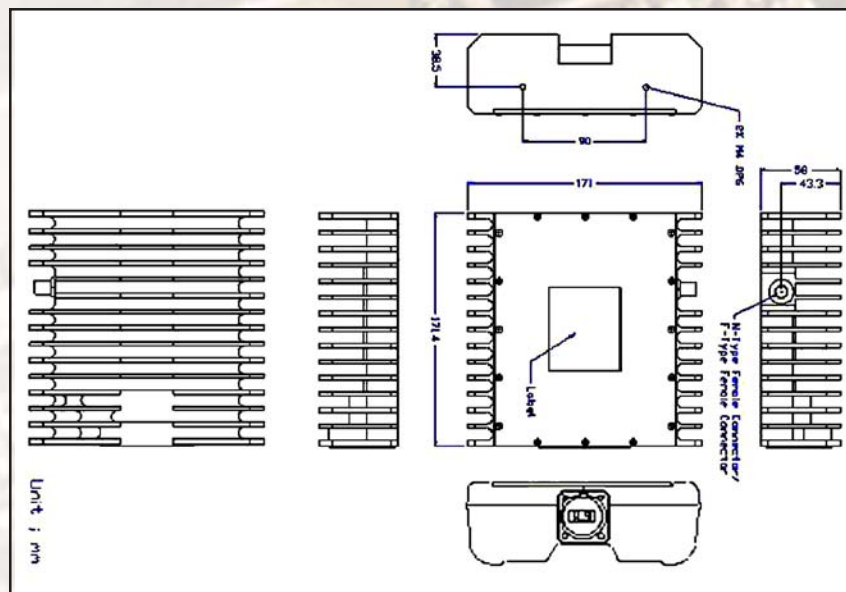
- ◆ Small package size and weight
- ◆ Feed horn mounting
- ◆ Powered through IF cable
- ◆ Low power consumption (<38W)
- ◆ High power efficiency (4W min @P1dB over temperature)
- ◆ Side connector
- ◆ 12.75-13.25 / 13.00-13.50 / 12.75-13.50 GHz options
- ◆ RoHS compliant
- ◆ Three-year warranty

ABA4LKL / ABA4LKLKLF
ABA4LKM / ABA4LKMFL
ABA4LKX / ABA4LKXFL



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.

Mechanical Drawing





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TECHNICAL SPECIFICATIONS

RF frequency	ABA4LKL ABA4LKM ABA4LKX	12.75 to 13.25 GHz 13.00 to 13.50 GHz 12.75 to 13.50 GHz
Local oscillator	ABA4LKL ABA4LKM ABA4LKX	11.80 GHz 12.05 GHz 11.80 GHz
IF frequency		950 to 1,700 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
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	1.0 dB p_p 1.6 dB p_p
Over operating temperature		1.4 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	ABA4LKL ABA4LKLF	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		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