



3W Low Ku-Band Block Up Converter

KEY FEATURES

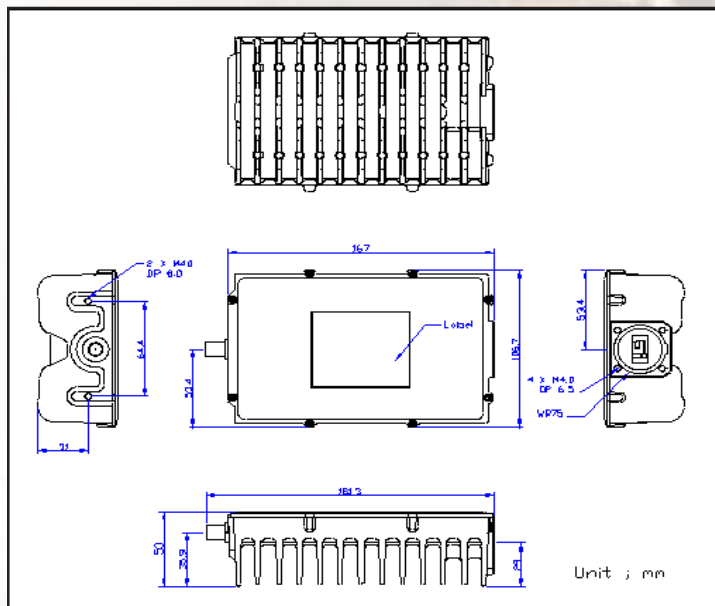
- ◆ Small package size and weight
- ◆ Feed horn mounting
- ◆ Powered through IF cable
- ◆ Low power consumption (<24W)
- ◆ High power efficiency (3W min @P1dB over temperature)
- ◆ RoHS compliant
- ◆ Three-year warranty
- ◆ 12.75-13.25 GHz / 13.00-13.50 GHz / 12.75-13.50 GHz options

ABA3LKL / ABA3LKLF
ABA3LKM / ABA3LKMF
ABA3LKX / ABA3LKXF



This small and light weight 3W L-To Low 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	ABA3LKL ABA3LKM ABA3LKX	12.75 to 13.25 GHz 13.00 to 13.50 GHz 12.75 to 13.50 GHz
Local oscillator	ABA3LKL ABA3LKM ABA3LKX	11.80 GHz 12.05 GHz 11.80 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 24 W max
Output interface		WR-75 Grooved
Linear gain		62 dB nominal
Gain variation	over 54 MHz over 500 MHz	1.2 dB p_p 2.0 dB p_p 2.0 dB p_p @ fixed frequency
Over operating temperature		2.0 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	ABA3LK ABA3LKF	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