



2W Ka-Band Block Up Converter

KEY FEATURES

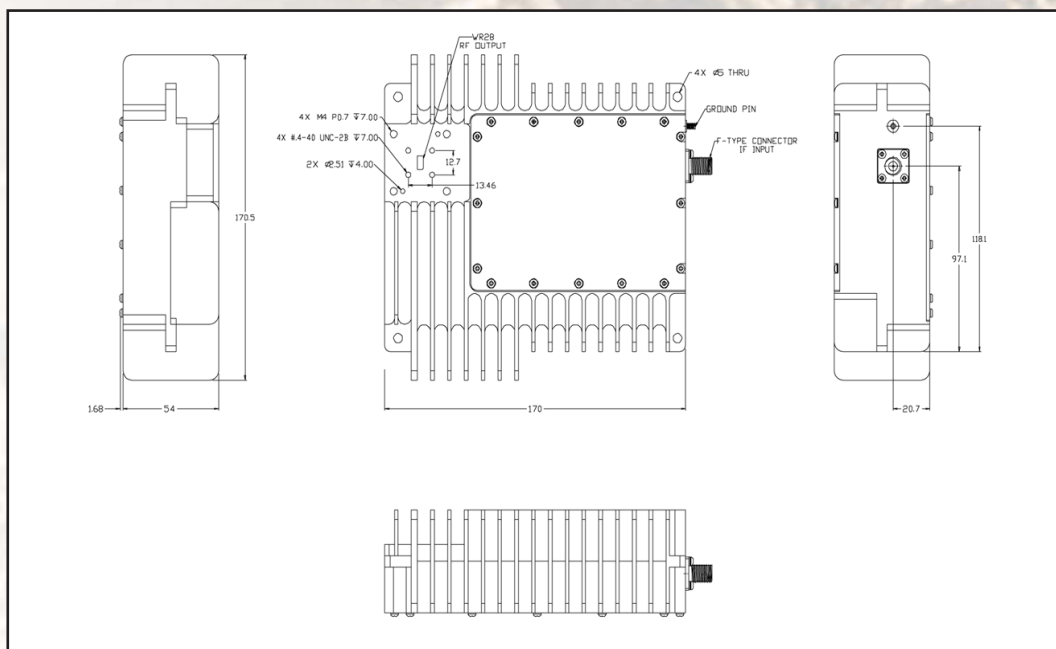
- ◆ Smallest package size and weight
- ◆ Feed horn mounting
- ◆ Powered through IF cable
- ◆ Low power consumption(<36W)
- ◆ High power efficiency(2W min @P1db over temperature)
- ◆ RoHS compliant
- ◆ Rear connector
- ◆ Three-year warranty

ABA2KA/ABA2KAF



This is the smallest and lightest 2W L-To Ka-Band Block Up Converter and it is designed to be mounted on the feed horn. This unit is ideal for portable and mobile applications. High power efficiency resulting in low current (<1.6 amps) consumption allows user to pass DC supply voltage via IF cable.

Mechanical Drawing





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TECHNICAL SPECIFICATIONS		
RF frequency	ABA2KA	29.5 to 30 GHz
Local frequency Local oscillator		14.275 GHz 28.55 GHz
IF frequency		950 to 1,450 MHz
Output power @ P1dB min over temp.		2W (+33 dBm min.)
IF connector		N-type or F-type
Power supply – auto-ranging		+18 VDC~+30 VDC via IF cable 36 W max
Output interface		WR-28 Grooved
Gain		50 dB min., 60 dB max.
Return loss		> 10 dB
Spurious		
	< - 43dBm	3.4 GHz – 10.7 GHz
	< - 37dBm	10.7 GHz – 21.2 GHz
	< - 37dBm	19.7 GHz – 21.2 GHz
	< - 37dBm	21.2 GHz – 40.0 GHz
Requirement for external reference		via IF cable
	frequency	10 MHz (sine-wave)
	input power	-5 to +5 dBm @ input port
		-55 dBc/Hz max. @ 100 Hz -65 dBc/Hz max. @ 1 kHz -75 dBc/Hz max. @ 10 kHz -95 dBc/Hz max. @ 100 kHz -110 dBc/Hz max @ 1 MHz
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	ABA2KA ABA2KAF	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		170 (L) x 170.5 (W) x 54 (H) mm 6.8" (L) x 6.82" (W) x 2.16" (H)
Weight		1.6 kg (3.7 lbs) max