



2W C-Band Block Up Converter

KEY FEATURES

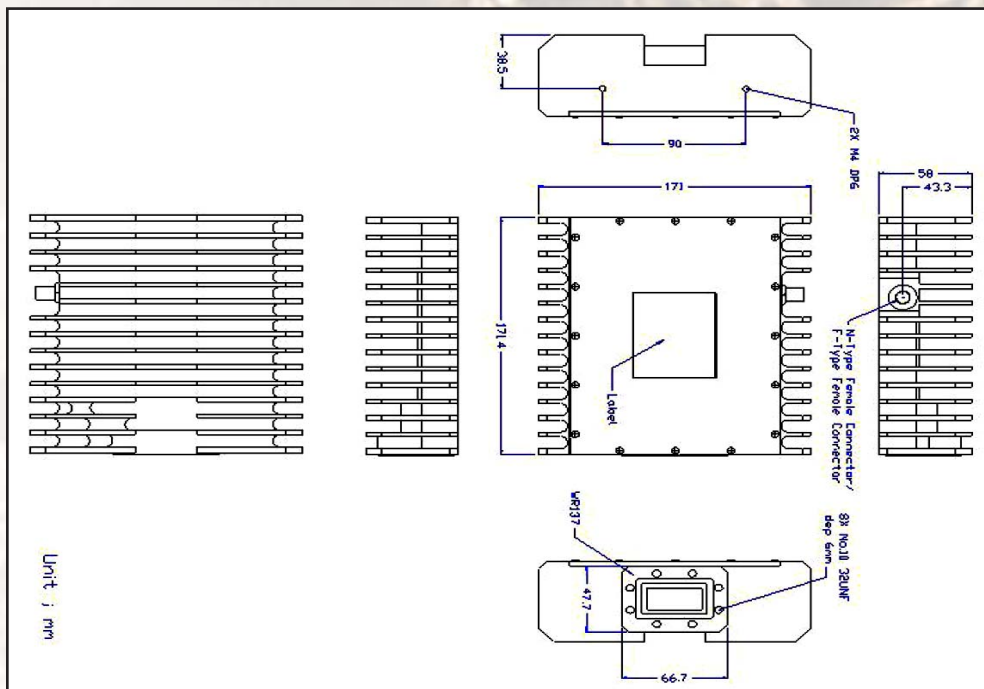
- ◆ Small package size and weight
- ◆ Feed horn mounting
- ◆ Powered through IF cable
- ◆ Low power consumption (<35W)
- ◆ High power efficiency (2W min @P1dB over temperature)
- ◆ Standard, Palapa and Extended C-Band options
- ◆ RoHS compliant
- ◆ Three-year warranty

ABA2C / ABA2CF
ABA2CP / ABA2CPF
ABA2CE / ABA2CEF



This small and light weight 2W L-To C-Band Block Up Converter is designed to be mounted on the feed horn. High power efficiency resulting in low current (≤ 1.5 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	ABA2C ABA2CP ABA2CE	5.850 to 6.425 GHz 6.425 to 6.725 GHz 6.725 to 7.025 GHz
Local oscillator	ABA2C ABA2CP ABA2CE	4.90 GHz, non-inverting 5.275 GHz, non-inverting 5.75 GHz, non-inverting
IF frequency	ABA2C ABA2CP ABA2CE	950 to 1,525 MHz 1,150 to 1,450 MHz 975 to 1,275 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 35 W max
Output interface		CPR-137 Grooved
Gain		60 dB nominal
IMD3		-30 dBc max
L.O. leakage		-45 dBm max
Spurious		-50 dBc max
Gain variation	over 40 MHz over 575 MHz	1.0 dB p_p 2.0 dB p_p 2.0 dB p_p @ fixed frequency
Over operating temperature		
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	ABA2C ABA2CF	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		
		175 (L) x 160 (W) x 64 (H) mm 6.89" (L) x 6.52" (W) x 2.52" (H)
Weight		1.8 kg (3.97 lbs) max