



# 2W C-Band Block Up Converter

## KEY FEATURES

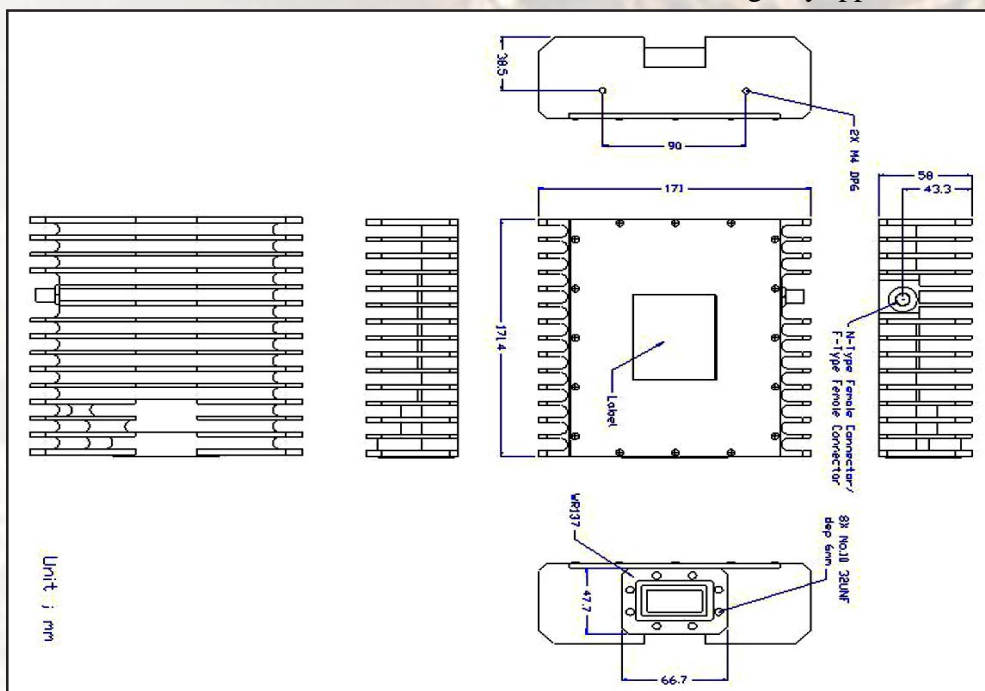
- ◆ Small package size and weight
- ◆ Feed horn mounting
- ◆ Powered through IF cable
- ◆ Low power consumption (<35W)
- ◆ High power efficiency (2W min @P1dB over temperature)
- ◆ Standard, Palapa and Extended C-Band options
- ◆ RoHS compliant
- ◆ Three-year warranty

## 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 ( $\leq 1.5$  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





## 2W C-Band Block Up Converter

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
Linear gain		60 dB nominal
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