



5W C-Band Block Up Converter

KEY FEATURES

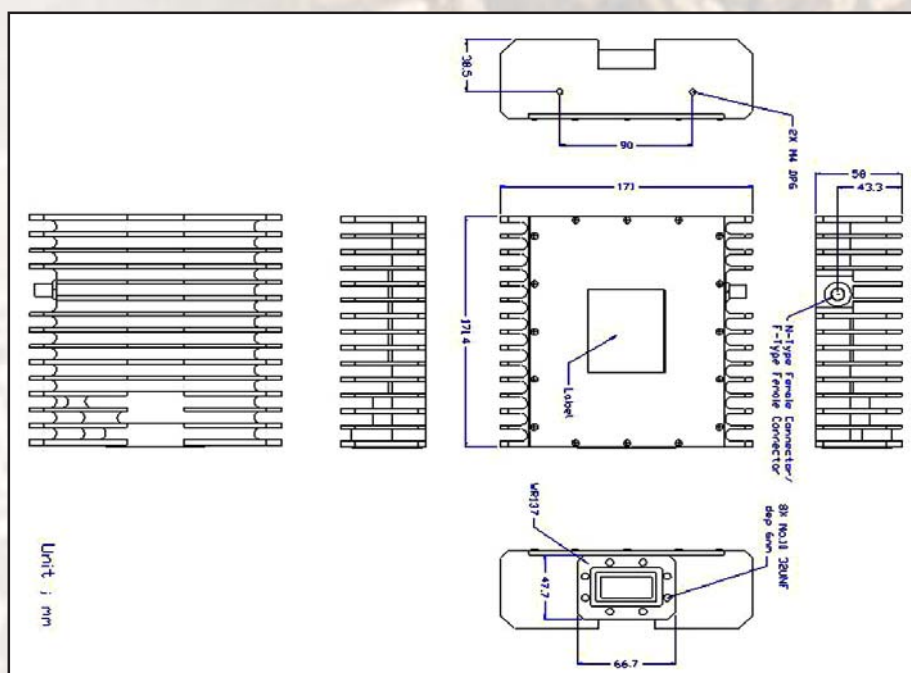
- ◆ Small package size and weight
- ◆ Feed horn mounting
- ◆ Powered through IF cable
- ◆ Low power consumption (<54W)
- ◆ High power efficiency (5W min @P1dB over temperature)
- ◆ Side Connector
- ◆ RoHS Compliant
- ◆ Two year Warranty

ABA5C / ABA5CF



This small and light weight 5W L-To C-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





5W C-Band Block Up Converter

TECHNICAL SPECIFICATIONS

RF Frequency	5.85 to 6.425 GHz
Local Oscillator	4.90 GHz
IF Frequency	950 to 1,525 MHz
Output Power @ P1dB min over temperature	5W Linear (+37 dBm min.)
IF Connector	N-Type or F-Type
Power Supply	+15 VDC~+24 VDC via IF Cable 54 W max
Output Interface	CPR-137 Grooved
Linear Gain	60 dB nominal
Gain Variation	
Over 40 MHz	1.0 dB p_p
Over 575 MHz	4.0 dB p_p
Over Operating Temperature	4.0 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	-30 dBc/Hz max. @ 10 Hz
	-60 dBc/Hz max. @ 100 Hz
	-70 dBc/Hz max. @ 1 kHz
	-80 dBc/Hz max. @ 10 kHz
	-90 dBc/Hz max. @ 100 kHz
	-100 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	ABA5C ABA5CF
	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