



# 5W C-Band Block Up Converter

## KEY FEATURES

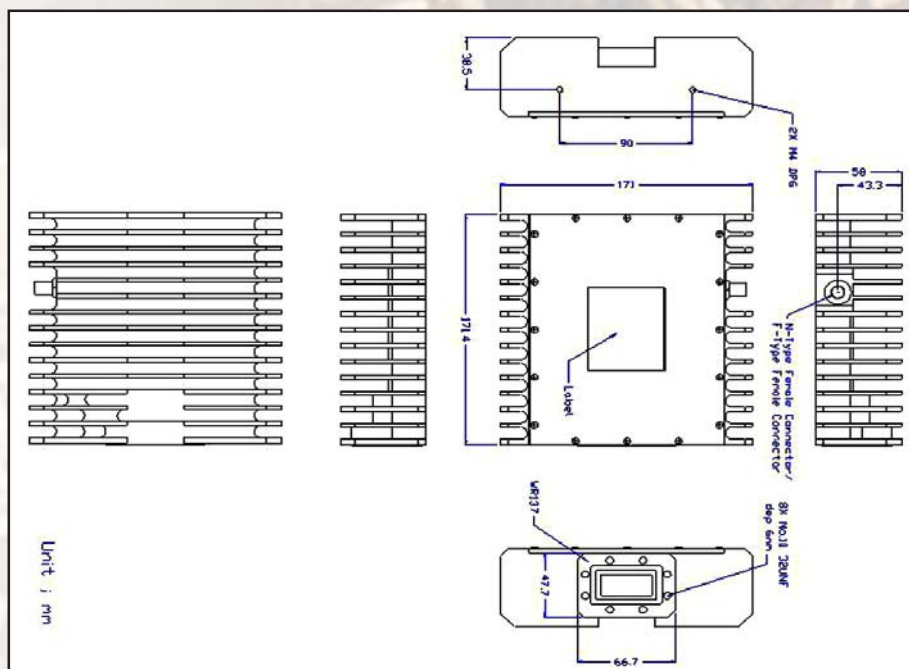
- ◆ Small package size and weight
- ◆ Feed horn mounting
- ◆ Powered through IF cable
- ◆ Low power consumption (<54W)
- ◆ High power efficiency (5W min @P1dB over temperature)
- ◆ Side Connector
- ◆ RoHS Compliant
- ◆ Two year Warranty

## ABA5CS / ABA5CSF



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 ( $\leq 2$  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

<b>TECHNICAL SPECIFICATIONS</b>	
<b>RF Frequency</b>	5.85 to 6.425 GHz
<b>Local Oscillator</b>	4.90 GHz
<b>IF Frequency</b>	950 to 1,525 MHz
<b>Output Power @ P1dB min over temperature</b>	5W Linear (+37 dBm min.)
<b>IF Connector</b>	N-Type or F-Type
<b>Power Supply</b>	+15 VDC~+24 VDC via IF Cable 54 W max
<b>Output Interface</b>	CPR-137 Grooved
<b>Linear Gain</b>	60 dB nominal
<b>Gain Variation</b>	
<b>Over 40 MHz</b>	1.0 dB p_p
<b>Over 575 MHz</b>	4.0 dB p_p
<b>Over Operating Temperature</b>	4.0 dB p_p @ Fixed Frequency
<b>Requirement for External Reference</b>	via IF cable
Frequency	10 MHz (sine-wave)
Input Power	-5 to +5 dBm @ Input port
<b>Phase Noise</b>	-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
<b>Noise Figure</b>	20 dB max
<b>Input V.S.W.R.</b>	2 : 1 max
<b>Output V.S.W.R.</b>	2 : 1 max.
<b>Mute</b>	Shut off the BUC in case of L.O. unlocked
<b>Input Interface</b>	<b>ABA5CS</b> <b>ABA5CSF</b>
<b>50 Ohm (N-type IF In)</b>	
<b>75 Ohm (F-type IF In)</b>	
<b>Temperature Range (ambient)</b>	
Operating	-40 deg C to +55 deg C
Storage	-40 deg C to +75 deg C
<b>Dimensions &amp; Housing</b>	172.4 (L) x 171 (W) x 58 (H) mm 6.89" (L) x 6.84" (W) x 2.32" (H)
<b>Weight</b>	1.9 kg (4.18 lbs) max