



# 10W Full C-Band Block Up Converter

## KEY FEATURES

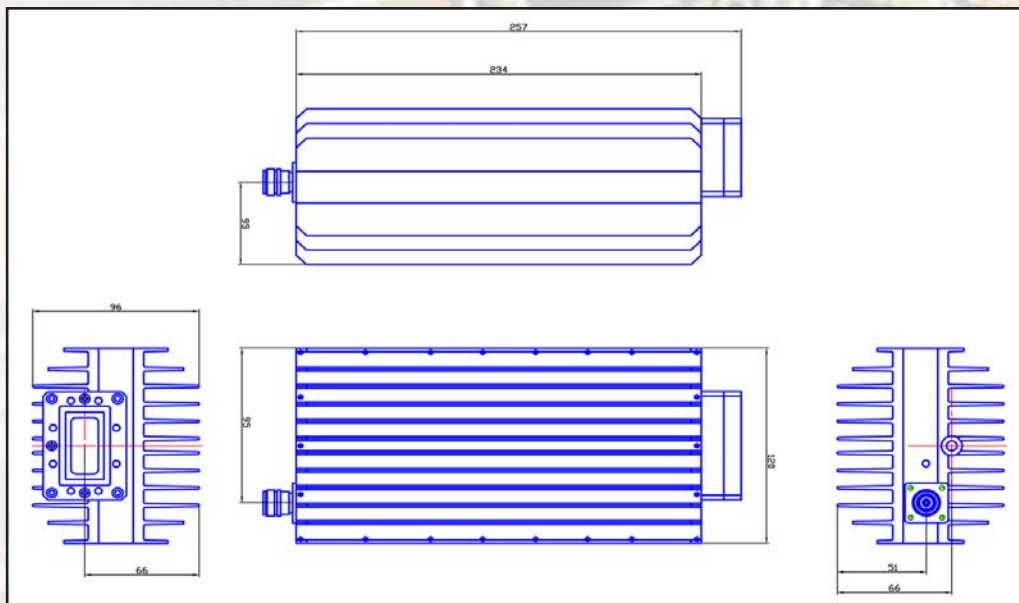
- ◆ Smallest package size and weight
- ◆ 5.875 - 7.200 GHz Output
- ◆ Double- L.O. (switchable 4.9 & 5.5 GHz)
- ◆ Field-exchangeable (F/N) IF connector
- ◆ High Power Efficiency (10W min @P1dB)
- ◆ 18 - 72 VDC Autoranging Power
- ◆ Power and Lock Status LED
- ◆ RoHS Compliant
- ◆ Advanced M & C Interface / FSK (Optional)
- ◆ Three-year Warranty

## ABE10XC / ABE10XCF



This is a unique Full C-Band (5.875-7.200GHz) 18-72 VDC (autoranging) powered unit designed for mobile applications especially when an earth station needs to be able to use different C-Band (Standard, Palapa or INSAT) transponders or satellites. It's light enough to be mounted on a feed horn of any antenna.

## Mechanical Drawing





# 10W Full C-Band Block Up Converter

## TECHNICAL SPECIFICATIONS

<b>RF Frequency</b>	5.875 to 7.200 GHz
<b>Local Oscillator</b>	4.90, 5.5 GHz - Switchable
<b>IF Frequency</b>	950 to 1.700 MHz
<b>Output Power @ P1dB G.C.P.</b>	10W (+40 dBm min.)
<b>IF Connector</b>	N-Type or F-Type field exchangeable
<b>Power Supply - Auto Ranging via IF connector</b>	18 – 72 VDC, 75 W Max
<b>Output Interface</b>	CPR 137
<b>Linear Gain</b>	68 dB nominal
<b>Requirement for External Reference:</b>	<b>via IF cable</b>
Frequency	10 MHz (sine-wave)
Input Power	-5 to +5 dBm @ Input port
<b>Gain Variation</b>	1.0 dB p_p
<b>Over 40 MHz</b>	1.8 dB p_p
<b>Over 500 MHz</b>	1.2 dB p_p @ Fixed Frequency
<b>Over Operating Temperature</b>	
<b>Phase Noise</b>	-100 dBc/Hz max. @ 100 KHz
	-90 dBc/Hz max. @ 10 KHz
	-80 dBc/Hz max @ 1 KHz
	-70 dBc/Hz max @ 100 Hz
<b>Noise Figure</b>	15 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 HPA if L.O. unlocked
<b>Status LED</b>	
<b>RED</b>	Summary Alarm
<b>GREEN</b>	All OK
<b>YELLOW</b>	Standard LO 4.9 GHz
<b>YELLOW blinking</b>	Extended LO 5.5 GHz
<b>Input Interface</b>	
<b>ABE10XC</b>	50 Ohm (N-type IF In)
<b>ABE10XCF</b>	75 Ohm (F-type IF In)
<b>Temperature Range (ambient)</b>	
Operating	-40 deg C to +55 deg C
Storage	-55 deg C to +85 deg C
<b>Dimensions &amp; Housing</b>	257 (L) x 120 (W) x 96 (H) mm
	9.4" (L) x 4.8" (W) x 3.84" (H)
<b>Weight</b>	2.5 kg (5.5 lbs) max