



# 30W Full C-Band Block Up Converter

## KEY FEATURES

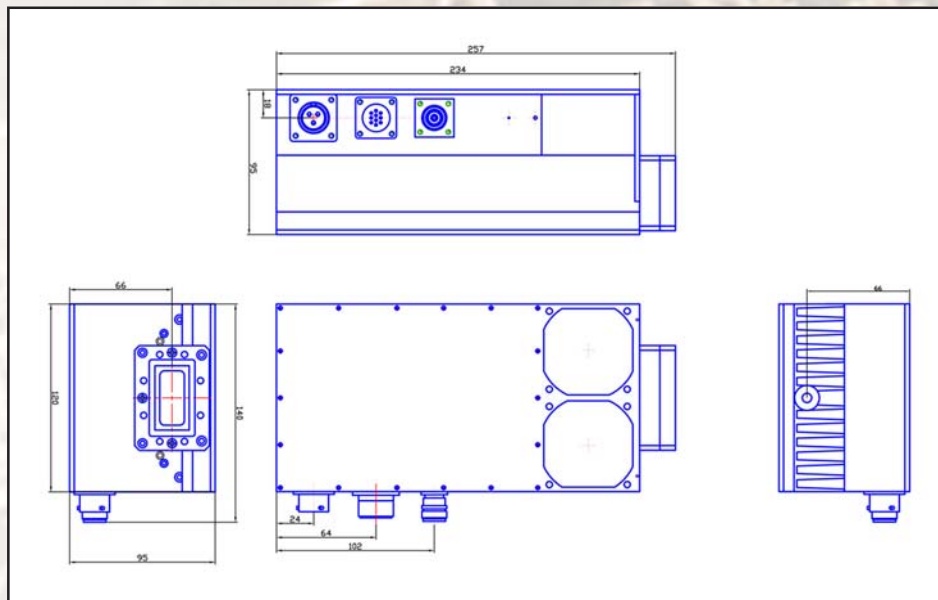
- ◆ Smallest package size and weight
- ◆ 5.875 - 7.200 GHz output
- ◆ High power efficiency (30W min @P1dB over temperature)
- ◆ Double- L.O. (electronically switchable 4.9 & 5.5 GHz)
- ◆ Digital temperature compensation
- ◆ Field-exchangeable (F/N) IF connector
- ◆ 80 - 240 VAC or 18 - 72 VDC auto-ranging power (155W max)
- ◆ Power and lock status LED
- ◆ Advanced M & C interface / FSK (optional)
- ◆ RoHS compliant
- ◆ Three-year warranty

## ABE30XC / ABE30XCF ABD30XC / ABD30XCF



This is a unique Full C-Band (5.875-7.200 GHz) 30W Block Up Converter powered with auto-ranging 80-240 VAC or 18-72 VDC 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 most antennas.

## Mechanical Drawing





# 30W Full C-Band Block Up Converter

## TECHNICAL SPECIFICATIONS

<b>RF frequency</b>	5.875 to 7.200 GHz
<b>Local oscillator</b>	4.90 and 5.5 GHz
<b>IF frequency</b>	950 to 1,700 MHz
<b>Output power @ P1dB</b>	30W (+44.8 dBm min.)
<b>IF connector</b>	N-type or F-type
<b>Power supply via MS connector</b> <b>ABE30XC-auto ranging</b> <b>ABD30XC-auto ranging</b>	18-72 VDC, 150 W max 80-240 VAC, 155 W max
<b>Output interface</b>	CPR 137
<b>Requirement for external reference:</b> frequency input power	<b>via IF cable</b> 10 MHz (sine-wave) -5 to +5 dBm @ input port
<b>Gain variation</b> <b>over 40 MHz</b> <b>over 500 MHz</b>	1.1 dB p_p 1.6 dB p_p
<b>Over operating temperature</b>	1.2 dB p_p @ fixed frequency
<b>Phase noise</b>	-110 dBc/Hz max. @ 100 KHz -95 dBc/Hz max. @ 10 KHz -85 dBc/Hz max @ 1 KHz -75 dBc/Hz max @ 100 Hz
<b>Spurious level</b>	-50 dBc
<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>GREEN</b> <b>YELLOW</b> <b>RED</b>	All OK standard LO 4.90 GHz All OK extended LO 5.5 GHz Summary alarm
<b>Input interface</b> ABE30XC / ABD30XC ABE30XCF / ABD30XCF	50 Ohm (N-type IF in) 75 Ohm (F-type IF in)
<b>Temperature range (ambient)</b> operating storage	-45 deg C to +65 deg C -55 deg C to +85 deg C
<b>Dimensions &amp; housing</b>	257 (L) x 120 (W) x 95 (H) mm 10.2" (L) x 4.8" (W) x 3.8" (H)
<b>Weight</b>	3.5 kg (7.7 lbs) max