



# 30W Ext. Ku-Band Block Up Converter

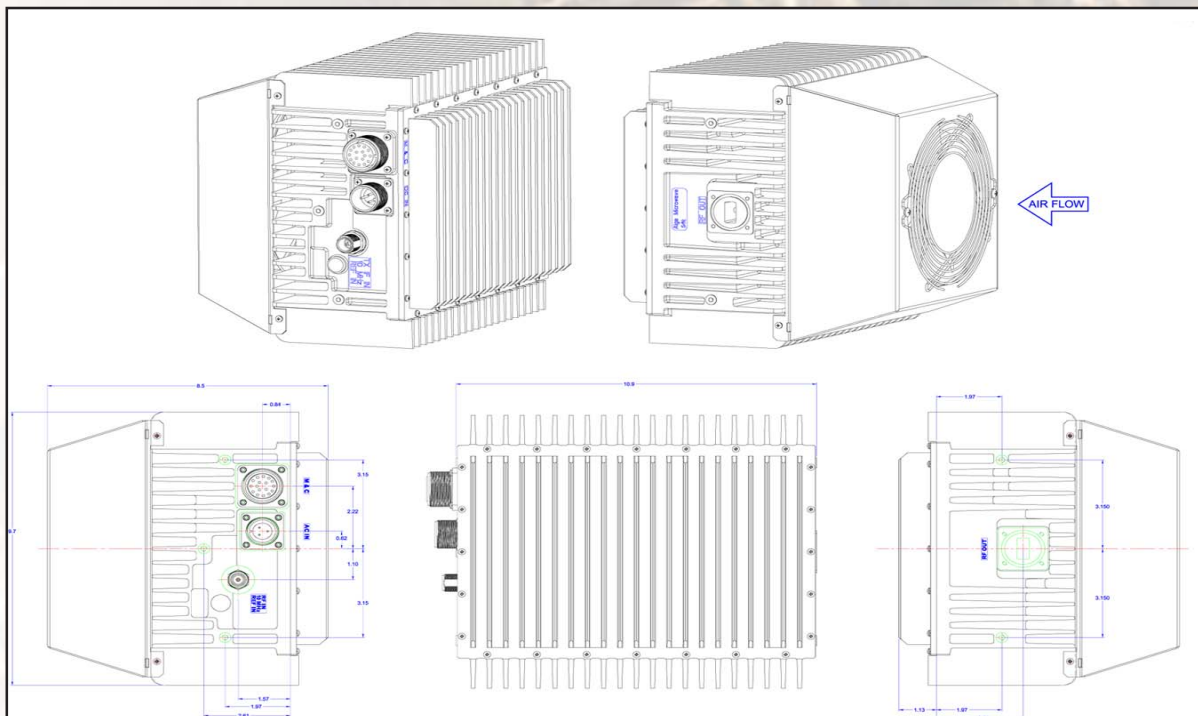
## KEY FEATURES

- ◆ Small package size and weight
- ◆ M & C Interface
- ◆ Powered through MS connector
- ◆ High power efficiency (30W min @P1dB over temperature)
- ◆ 110 / 220 VAC via MS connector input
- ◆ 48 VDC (optional)
- ◆ RoHS compliant
- ◆ Two year warranty

## ABD30KUX / ABD30KUXF ABC30KUX / ABC30KUXF



## Mechanical Drawing





# 30W Ext. Ku-Band Block Up Converter

## TECHNICAL SPECIFICATIONS

<b>RF frequency</b>		13.75 to 14.50 GHz
<b>Local oscillator</b>		12.80 GHz
<b>IF frequency</b>		950 to 1,700 MHz
<b>Output power @ P1dB G.C.P.</b>		30W (+44.8 dBm min.)
<b>IF connector</b>		N-type or F-type
<b>Power supply</b>	<b>ABD30KUX ABC30KUX</b>	110/220 VAC, 47-63 Hz, 290W max 36-58 VDC 285W max
<b>Output interface</b>		WR-75 grooved
<b>Gain</b>		70 dB nominal
<b>Gain variation</b>	<b>over 54 MHz over 500 MHz</b>	1.5 dB p_p 3.0 dB p_p
<b>Over operating temperature</b>		3.0 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>		-55 dBc/Hz max. @ 10 Hz -65 dBc/Hz max. @ 100 KHz -75 dBc/Hz max. @ 1 KHz -85 dBc/Hz max. @ 10 KHz -95 dBc/Hz max @ 100 kHz -120 dBc/Hz max @ 1 MHz
<b>Noise figure</b>		17 dB max
<b>Input V.S.W.R.</b>		2 : 1 max
<b>Output V.S.W.R.</b>		1 : 3.1 max.
<b>Mute</b>		Shut off the HPA if L.O. unlocked
<b>Input interface</b>	<b>ABD30KUX ABD30KUXF</b>	50 Ohm (N-type IF in) 75 Ohm (F-type IF in)
<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>		207.5 (L) x195 (W) x 196.2 (H) mm 8.3" (L) x 7.8" (W) x 7.85" (H)
<b>Weight</b>		5 kg (11 lbs) max