





# 40W Ext. C-Band Block Up Converter

## TECHNICAL SPECIFICATIONS

<b>RF frequency</b>	5.850 to 6.725 GHz
<b>Local oscillator</b>	4.90 GHz
<b>IF frequency</b>	950 to 1,825 MHz
<b>Output power @ P1dB</b>	40W (+46 dBm min.)
<b>IF connector</b>	N-type or F-type (field-exchangeable)
<b>Power supply via MS connector</b> ABD40DC-auto-ranging ABC40DC-auto-ranging	80-240 VAC, 200 W max 38-56 VDC, 199 W max
<b>Output interface</b>	CPR 137 G
<b>Gain</b>	67 dB min., 75 dB max
<b>IMD3</b>	-28 dBc max
<b>L.O. leakage</b>	-31 dBm max
<b>Spurious</b>	-50 dBc max
<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>	-55 dBc/Hz max. @ 10 Hz
	-65 dBc/Hz max. @ 100 Hz
	-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>	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>RED</b>	L.O. locked and amplifier functioning normally Power OK, L.O. unlocked
<b>Input interface</b> ABD40DC / ABC40DC ABD40DCF / ABC40DCF	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