





## 6W Ext. Ku-Band Block Up Converter

### TECHNICAL SPECIFICATIONS

<b>RF frequency</b>		13.75 – 14.50 GHz
<b>Local Oscillator</b>		12.80 GHz and 13.05 GHz
<b>IF frequency</b>		950 to 1,700 MHz
<b>Output power</b>		6W (+38 dBm min)
<b>IF connector</b>		N-type or F-type (field-exchangeable)
<b>Power supply - auto-ranging</b>		+15~+30 VDC via IF cable, 35 W max
<b>Internal 10MHz high stability reference</b>		10 <sup>-8</sup>
<b>Output interface</b>		WR-75 G
<b>Gain</b>		60 dB typ
<b>IMD3 (two tones)</b>		-26 dBc max 2 signal 5MHz apart at P-LINEAR
<b>L.O. leakage</b>		-45 dBm max
<b>Spurious</b>		-53 dBc max
<b>Spectral regrowth</b> (QPSK at 1.5x and OQPSK at 1.0x symbol rate offset with 2dB back-off from rated output power)		-30dBc
<b>TX Gain variation</b>		± 0.5 dB over 40 MHz ± 1.8 dB over full band
<b>TX Gain stability over temperature range</b>		± 1.5 dB typ., ± 1.8 dB max
<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>  (Exceeds Intelsat's standard IESS308/309)		-53 dBc/Hz max. @ 10 Hz -63 dBc/Hz max. @ 100 Hz -73 dBc/Hz max. @ 1 KHz -83 dBc/Hz max. @ 10 KHz -93 dBc/Hz max. @ 100 KHz -113 dBc/Hz max. @ 1 MHz
<b>Noise power density</b>	<b>Transmit</b>	-60 dBm/Hz (max)
	<b>Receive</b>	-150 dBm/Hz (max)
<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>Status LED</b>	<b>RED</b>	Summary alarm
	<b>GREEN</b>	All OK
	<b>YELLOW</b>	All OK standard L.O. 13.05 GHz
	<b>YELLOW blinking</b>	All OK extended L.O. 12.80 GHz
<b>Temperature range (ambient)</b>		
operating		-40 deg C to +55 deg C
storage		-55 deg C to +85 deg C
<b>Vibration and shock</b>		Complies with MIL-STD-810E
<b>Dimensions &amp; housing</b>		140 (L) x 120 (W) x 52 (H) mm 5.6" (L) x 4.8" (W) x 2.08" (H)
<b>Weight</b>		1.3 kg (2.9 lbs.) max