





## 250W Ext. Ku-Band Block Up Converter

TECHNICAL SPECIFICATIONS		
RF frequency	14.00 to 14.50 GHz 13.75 to 14.50 GHz	
Dual local oscillator	12.80 GHz and 13.05 GHz	
IF frequency	950 to 1,700 MHz	
Output power	250W (+54 dBm min.)	
IF connector	N-type or F-type (field-exchangeable)	
Power supply auto-ranging	90 ~ 240 VAC via MS connector, 1140W max.	
Output interface	WR-75 G	
Gain	68 dB min., 72 dB nominal	
L.O. leakage	-45 dBm max.	
Spurious	-50 dBc max.	
Spectral regrowth (QPSK at 1.5x and OQPSK at 1.0x symbol rate offset with 2dB back-off from rated output power)	-30 dBc	
Requirement for external reference: frequency input power	via IF cable 10 MHz (sine-wave) -5 to +5 dBm @ input port	
TX Gain variation	± 0.5 dB over 40 MHz ± 1.8 dB over full band	
TX Gain stability over temperature range	± 1.5 dB typ., ± 1.8 dB max.	
Phase noise  (Exceeds Intelsat's standard IESS308/309)	-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	
	-115 dBc/Hz max. @ 1 MHz	
Noise power density	Transmit Receive	-80 dBm/Hz (max.) -125 dBm/Hz (max.)
Noise figure	15 dB max.	
Input V.S.W.R.	1.5 : 1 max.	
Output V.S.W.R.	1.5 : 1 max.	
M&C	RS-232 and RS-485, Ethernet (HTTP and SNMP ver.3)	
Mute	Shut off the HPA if L.O. unlocked	
Status LED	RED	Summary Alarm
Alarm LED	GREEN	OK
	GREEN blinking	MUTE
L.O.	GREEN	All OK standard L.O. 13.05 GHz
	GREEN blinking	All OK extended L.O. 12.80 GHz
10MHz Reference LED	GREEN	External 10MHz reference
	GREEN blinking	Internal 10MHz reference
	RED	No 10MHz reference detected
Temperature range (ambient) operating storage	-40 deg C to +55 deg C -55 deg C to +85 deg C	
Vibration and shock	Complies with MIL-STD-810E	
IP rating	IP67	
Dimensions & housing	240 (L) x 202.4 (W) x 139.2 (H) mm 9.4" (L) x 7.9" (W) x 5.48" (H)	
Weight	8.5 kg (18.7 lbs) max.	