



125W Ext. C-Band (5.85-6.725 GHz) BUC

TECHNICAL SPECIFICATIONS		
RF frequency		5.850 to 6.725 GHz
Local oscillator		4.90 GHz
IF frequency		950 to 1,825 MHz
Output power		125W (+51 dBm min.) 67.3W (+48.3 dBm min.) P-Linear
IF connector		N-type or F-type (field-exchangeable)
Power supply : auto-ranging via MS connector		+85 ~ +245 VAC, 468W max.
Output interface		CPR 137 G
Gain		74 dB nominal
IMD3		-26 dBc max. 2 signal 5MHz apart at P-LINEAR
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:		via IF cable
frequency		10 MHz (sine-wave)
input power		-5 to +5 dBm @ input port
TX Gain variation		± 0.5 dB over 40 MHz
TX Gain stability over temperature range		± 1.8 dB over full band ± 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	-66 dBm/Hz (max.)
	Receive	-157 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 Interface		RS-232 and RS-485, Ethernet (HTTP and SNMP ver.2 and 3)
FSK		Multiplexed on TX IFL, com. with Comtech/ Paradigm
Mute		Shut off the HPA if L.O. unlocked
Status LED		Summary alarm
Amplifier	RED	All OK
	GREEN	All OK L.O. is set to 4.9 GHz
L.O.	GREEN	External 10MHz reference
10MHz	GREEN	Internal 10MHz reference
	GREEN blinking	No 10MHz reference detected
	RED	
Temperature range (ambient)		-40 deg C to +55 deg C
operating		-55 deg C to +85 deg C
storage		
Vibration and shock		Complies with MIL-STD-810E
Altitude		Up to 23,000 feet
IP rating		IP67
Dimensions & housing		195 (L) x 120 (W) x 113.6 (H) mm 7.67" (L) x 4.72" (W) x 4.47" (H)
Weight		3.36 kg (7.40 lbs) max.