



50 W BUC X BAND

Model Type: **50XB001A**

This device is suitable for various satellite applications.
The BUC performs the translation of the input signal from L Band to X Band and do the amplifies of the input signal up to 50 W.



LED ALARM (to LEDs installed)

LED indicator	●	BUC out enabled
LED indicator	⦿	BUC out disabled (mute)
LED indicator	●	Summary Alarm
No LED illumination		No power supply voltage

CONNECTOR PIN ASSIGNMENT

Connector Name	Type	Pin #	Signal	Parameter
J1 "IF IN"	N-type female	N/A	IF Input 10 MHz Ref. IN	0 dBm max ± 5 dBm
J2 "RF OUT"	WR-112	N/A	RF Output	44 dBm max
J3 "AC POWER IN"	97-3100A-14S-7P 3 pin male	A	Line (AC)	90 - 240 VAC
		B	Ground	
		C	Neutral (AC)	
J4 "M&C Interface"	PT02E12-10P-027 10 pin male	A	Rx+ In	RS-485
		B	Rx- In	
		C	Tx+ Out	
		D	Tx- Out	
		E	Detector	Optional
		F	Alarm Out	Low when alarm
		G	GND	
		H	Mute In	Muted when Low
		J	Rx In	RS-232
		K	Tx Out	



TECHNICAL SPECIFICATION

Input Frequency	950 ÷ 1450 MHz	
Output Frequency	7.9 ÷ 8.4 GHz	
RF Output Power @ P1 dB	50W (47 dBm)	
Gain	65 dB min.	
Gain flatness	Full band 3 dB p-p max 36 MHz 1 dB p-p max 1 MHz 0.25 dB p-p	
Spurious	< -50 dB	
Input Level without damage	-50 to 0 dBm	
IF Input Interface	50/75 Ohm – N/F type	
RF Output Interface	WR112	
Carrier independent	-55 dBc max	
LO leakage	-42 dBm max	
Local Oscillator	6950 MHz	
External reference	10 MHz sine-wave	
Phase Noise	@100Hz	- 60 dBc/Hz
	@1KHz	- 75 dBc/Hz
	@10KHz	- 85 dBc/Hz
	@100KHz	- 95 dBc/Hz
Reference Input Level	-5 to +5 dBm @ 50 Ohm	
Shut off BUC in case of LO unlocked	internal	
AC Power Supply	AC 110/220V nom (90-120 / 180-240V), 50/60 Hz	
Power Consumption	350 W	
Operating Temperature	-35° C to +50°C	
Relative Humidity	Up to 100% (water proof design)	
Dimensions	260 x 150 x 95 mm	
Weight	About 7 Kg	
Color	White or Military Green	