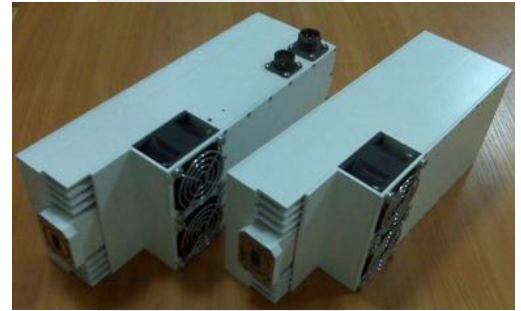




50 W BUC KU BAND

Model Type: **50KU001A**

This device is suitable for satellite video and data applications.
The BUC performs the translation of the input frequency and power signal up to Ku Band and up to 50W.



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	N/A
J2 "RF OUT"	WR-75	N/A	RF Output	N/A
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 ÷ 1700 MHz	
Output Frequency	13.75 ÷ 14.50 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	WR75	
Carrier independent	-55 dBc max	
LO leakage	-42 dBm max	
Local Oscillator	12800 MHz	
External reference	10 MHz sine-wave	
Phase Noise	@100Hz	- 70 dBc/Hz
	@1KHz	- 80 dBc/Hz
	@10KHz	- 90 dBc/Hz
	@100KHz	- 110 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 140 x 95 mm	
Weight	About 7 Kg	
Color	White or Military Green	