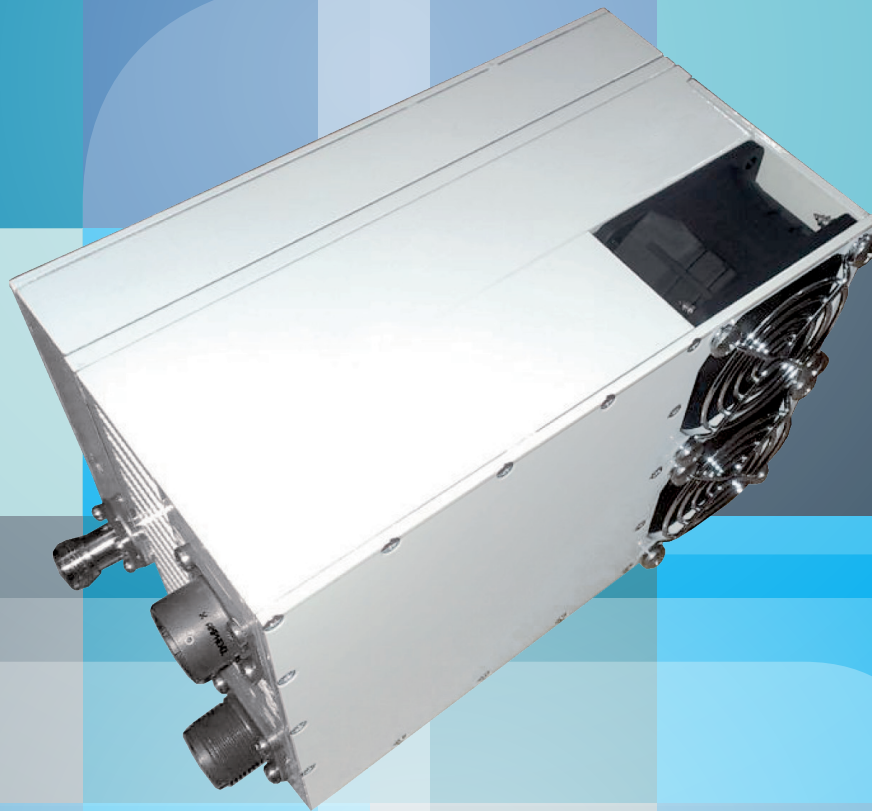


SPACE DYNAMICS

satellite technologies and beyond



KU EXTENDED



13.75-14.5 GHz



25/30 WATT



BUC 25/30/ KUE
KU BAND BLOCK-UP-CONVERTER

BUC 25/30 / KUE 13.75-14.5 GHz

KU BAND BLOCK-UP-CONVERTER

Technical Specification

RF Specifications			
	Output (Ghz)	Input (Ghz)	Low (Ghz)
Standard	14.00 to 14.50	950 to 1450	13.05 (*)
Offset	13.75 to 14.25	950 to 1450	12.80 (*)
Extended	13.75 to 14.50	950 to 1700	12.80 (*) (* switchable)
Output Power	44 dBm (25 W), 45 dBm (30 W) - @P1 dB		
Small Signal Gain	70 dB Min		
Gain Flatness	±0.5 dB Max (40 Mhz BW)		
Gain Variations	±1.5 dB over the operating temperature range		
Inter modulation	-30 dBc @ Relative to combine power of two carriers at 6 dB total power backoff from Rated Output power		
O/P spurious	-55 dB Max		
Phase Noise 100 Hz	< -65 dBc/Hz		
Phase Noise 1 KHz	< -75 dBc/Hz		
Phase Noise 10 KHz	< -85 dBc/Hz		
Phase Noise 100 KHz	< -100 dBc/Hz > 100 kHz		
Input Return Loss	> -15 dB		

External Reference

Frequency	10 MHz sine wave
Ref Input Level	-5 dBm to +5 dBm
External reference phase noise requirement @ frequency offset	
10 Hz	-120 dBc/Hz
10 KHz	-150 dBc/Hz
Ref stability	±1x 10E-7 (minum requirement)

Monitor & Control

Monitor	BUC temperature Status alarm RF output power (optional) LED status indication
Control	Remote LO (manual or via M&C) Attenuation RF output mute
Interface	RS232/RS485 via external MS connector

Environmental

Operating Temperature	-40° C to +55° C
Relative Humidity	Up to 98%

Mechanical

Size	185 L (215 with connectors and flange) x 120 W x 110 H mm
Weight	4.5 kg / 9.9 lbs
Color	White Powder Coat



DC Power

Prime Power	36-70 VDC (48 V nominal)
Power Consumption	250 W (Typical for 25 W) 300 W (Typical for 30 W)

Interfaces

IF Input Interface	50 Ohms N-type / 75 Ohms - F type field replaceable
Output Interface	WR 75



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Note: all specifications are subject to change without notice.
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