



KU BAND



13.85-14.50 GHz



80/100 WATT



BUC 80/100 KUE
KU BAND BLOCK-UP-CONVERTER

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Technical Specification

RF Specifications

	Output (Ghz)	Input (Ghz)	Low (Ghz)
Standard	13.75 to 14.50	950 to 1700	4.90 (*)
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	49/50 dBm @ P1 dB		
Small Signal Gain	85 dB Min		
Gain Flatness	±1.0 dB Max		
Gain Variations	± 2 dB max (digital compensation)		
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	< -60 dBc/Hz		
Phase Noise 1 KHz	< -70 dBc/Hz		
Phase Noise 10 KHz	< -80 dBc/Hz		
Phase Noise 100 KHz	< -90 dBc/Hz > 100 kHz		
Input Return Loss	> -15 dB		

DC Power

Prime Power	90-260V
Power Consumption	1000W

Interfaces

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



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External Reference

Frequency	10 MHz sine wave
Ref Input Level	@ 10 Hz -120 dBc/Hz, @ 10 KHz -150 dBc/Hz
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 50 °C
Relative Humidity	Up to 98%

Mechanical

Size	369 L x 251 W x 130 H mm
Weight	15 kg / 33.069 lbs
Color	White Powder Coat



Note: all specifications are subject to change without notice.
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