



- Low power consumption
- Higher reliability from integrated design principle
- Performing well at wide temperature range
- Compact size and light weight
- Meet ETSI, FCC Standards Features
- 3 Year GeoSat Product Warranty

GeoSat 8W Ku-Band Block Up-Converter (BUC)

Model: GBS8KUF2



Section	Item	Specification
Power Requirement	RF Frequency	13.75-14.5 GHz
	IF Frequency	950-1700 MHz
Input Characteristics	External Reference	10 MHz, 0±5 dBm
	Saturated Output Power	≥ 39.5 dBm
	Rated Output Power	39 dBm
	IMD3 @3dB back-off from Rated Output Power	≤ -25 dBc
Output Characteristics	Small Signal Gain	60 dB (nominal) , 57 dB (min) 1 dB p-p/ 36 MHz
	Gain Variation.	4 dB p-p/ 500 MHz 5 dB p-p/ 750 MHz
	Gain Stability	±2 dB
	Receive Band Noise Density	≤ -144 dBm/Hz @10.95-12.75GHz
Transfer Characteristics	Phase Noise (IES-308/309)	≤ -60 dBc/Hz @ 100 Hz ≤ -70 dBc/Hz @ 1 KHz ≤ -80 dBc/Hz @ 10 KHz ≤ -90 dBc/Hz @ 100 KHz
	Output Spurious	≤ -55 dBc
	Power Supply	+18 to +36 VDC, via IF port
	Power Supply Draw @Rated Output Power	70W

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Section	Item	Specification
	RF Output Connector	WR75-G (Grooved)
	RF Output VSWR	1.5:1
	IF Input Connector	F-Type Female
	IF Input VSWR	2:1
	LED Indicators	1 LED: Red means PLL unlock, Green means working normally.
	Size	173*100*50 mm
	Weight	1 Kg
	Operating Temperature	-40 to +60 °C
	Humidity	0-100% (Condensing)
	Altitude	0-10000 F ASL

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