



- Built-in redundant ability without an external controller
- GaN HEMTs result in best-in-class MTBF
- Low power consumption
- Higher reliability from integrated design principle
- Performing well at wide temperature range

GeoSat 100W Ku-Band Block Up-Converter (BUC)

Model: GBS100KUN3



Section	Item	Specification
Power Requirement	RF Frequency	14.0-14.5 GHz
	IF Frequency	950-1450 MHz
Input Characteristics	External Reference	10 MHz, 0±5 dBm
	Saturated Output Power	50.5 dBm
	Rated Output Power	50 dBm
	Linear Output Power	47 dBm
	IMD3 @3dB back-off from Rated Output Power	≤ -25 dBc
Output Characteristics	Small Signal Gain	70 dB
		1 dB p-p/ 36 MHz
	Gain Variation.	3 dB p-p/ 500 MHz
		4 dB p-p/ 750 MHz
	Gain Stability	±1.5 dB
Transfer Characteristics	Gain Adjustment Range	20 dB (Step: 0.1 dB)
		≤ -63 dBc/Hz @100 Hz
	Phase Noise (IES-308/309)	≤ -73 dBc/Hz @1 KHz
		≤ -83 dBc/Hz @10 KHz
		≤ -93 dBc/Hz @100 KHz
	Output Spurious	-55 dBc (max)
	Power Supply	85 to 265 VAC
	Power Supply Draw @Rated Output Power	800W

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Section	Item	Specification
	RF Output Connector	WR75 (Grooved)
	RF Output VSWR	1.25:1
	RF Sampling Connector	N-Type Female
	IF Input Connector	N-Type Female
	IF Input VSWR	1.5:1
	Power Supply Connector	ACS02E-14S-7P
	M & C Connector	PT02E-12-14P, RS-485, RS-232 & Ethernet
	Redundancy Connector	PT02E-14-19P
	LED Indicators	1 Green & 1 Red
	Size	300*220*200 mm
	Weight	10 Kg
	Operating Temperature	-40 to +65 °C
	Humidity	0-100% (Condensing)
	Altitude	0-10000 F ASL

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