



- Dual bands are switchable
- Low power consumption
- Higher reliability from integrated design principle
- Compact size and light weight
- Meet ETSI, FCC standards

GeoSat 20W Ka-Band Block Up-Converter (BUC)

Model: GB20KA31N



Section	Item	Specification
Power Requirement	RF Frequency	30-31 GHz
	IF Frequency	1000-2000 MHz
Input Characteristics	External Reference	10 MHz, 0±5 dBm
	Saturated Output Power	≥43 dBm
	Rated Output Power	43 dBm
	Linear Output Power	40 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/ 1000 MHz
	Gain Stability	±1.5 dB
Transfer Characteristics	Gain Adjustment Range	20 dB (Step: 0.1 dB)
	Phase Noise (IES-308/309)	-63 dBc/Hz @100 Hz
		-73 dBc/Hz @1 KHz
		-83 dBc/Hz @10 KHz
		-93 dBc/Hz @100 KHz
	Output Spurious	-60 dBc (max)
	Power Supply	+18 to +36 VDC
	Power Supply Draw @Rated Output Power	180W

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Section	Item	Specification
	Power Supply Draw @Linear Output Power	120 W
	RF Output Connector	WR28-G (Grooved)
	RF Output VSWR	1.25:1
	IF Input Connector	N-Type Female
	IF Input VSWR	1.5:1
	Power Supply Connector	ACS02E10SL-4P
	M & C Connector	PT06E-12-14S RS-485, RS-232 & Ethernet (Telnet)
	LED Indicators	LEDs off: Equipment functioning properly Yellow: PLL unlock alarm
	Size	206*136*88 mm
	Weight	3.5 Kg
	Operating Temperature	-40 to +60 °C
	Humidity	0-100% (Condensing)
	Altitude	0-10000 F ASL
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