



**GeosSat**  
**Microwave**

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



## Block Up-Converter C-Band 20W Extended (BUC)

Model: **GB20C2N**

Section	Item	Specification	
RF Specifications	RF Frequency	5.850-6.725 GHz	
	IF Frequency	950-1825 MHz	
	Local Frequency	4900 MHz	
	External Reference	10 MHz, 0±5 dBm	
	Saturated Output Power	43.5 dBm	
	Rated Output Power	43 dBm	
	IMD3 @3dB back-off from Rated	≤ -25 dBc	
	Output Power		
	Small Signal Gain	70 dB	
	Gain Variation		1 dB p-p/ 36 MHz
			3 dB p-p/ 575 MHz
			4 dB p-p/ 875 MHz
	Gain Stability	±1.5 dB	
	Gain Adjustment Range		20 dB (Step: 0.1 dB)
		-65 dBc/Hz @ 100 Hz	
Phase Noise		-75 dBc/Hz @ 1 KHz	
		-85 dBc/Hz @ 10 KHz	
		-95 dBc/Hz @ 100 KHz	
Output Spurious		≤ -55 dBc	
Power Supply	Power Supply	85 to 265 VAC (47-63 Hz)	
	Power Supply Draw		
	@Rated Output Power	160 W	
Interface	RF Output Connector	WR137 (Grooved)	
	RF Output VSWR	1.25:1	
	IF Input Connector	N-Type Female	
	IF Input VSWR	1.5:1	

Continued on the next page ▼

Section	Item	Specification
	Power Supply Connector	ACS02E-14S-7P
	Monitor and Control Connector	PT02E-14-19P RS-485, RS-232 & Ethernet
	LED Indicators	LEDs off: Equipment function properly Yellow: PLL unlock alarm
Physical Parameters	Size	206*136*136 mm
	Weight	5 Kg
	Operating Temperature	-40 to +60 °C
	Humidity	0-100% (Condensing)
	Altitude	0-10000 F ASL 0-10000 F ASL

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Mechanical Diagram (Unit: inch (mm))

