



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 DBS-Band 20W (BUC)

Model: GB20DBS1N

Section	Item	Specification	
RF Specifications	RF Frequency	17.3-18.1 GHz,	
	IF Frequency	950-1750 MHz,	
		10 MHz, 0±5 dBm	
	External Reference		-140 dBc/Hz @100 Hz
			-150 dBc/Hz @1 KHz
			-155 dBc/Hz @10 KHz
	Saturated Output Power	≥ +43 dBm	
	Rated Output Power	+43 dBm	
	IMD3 @3dB back-off from Rated Output Power	-25 dBc	
	Small Signal Gain	70 dB	
	Gain Variation		0.25 dB p-p/ 1 MHz
			3 dB p-p/ 300 MHz
			4 dB p-p/ 800 MHz
	Gain Stability	±1.5 dB	
Gain Adjustment Range		20 dB (Step: 0.1 dB)	
		-72 dBc/Hz @100 Hz	
Phase Noise		-82 dBc/Hz @1 KHz	
		-87 dBc/Hz @10 KHz	
		-92 dBc/Hz @100 KHz	
Output Spurious	-60 dBc		
Power Supply	Power Supply	+36 to +72 VDC	
	Power Supply Draw	100 W	
	@Rated Output Power		
Interface	RF Output Connector	WR62-G (Grooved)	
	RF Output VSWR	1.25:1	

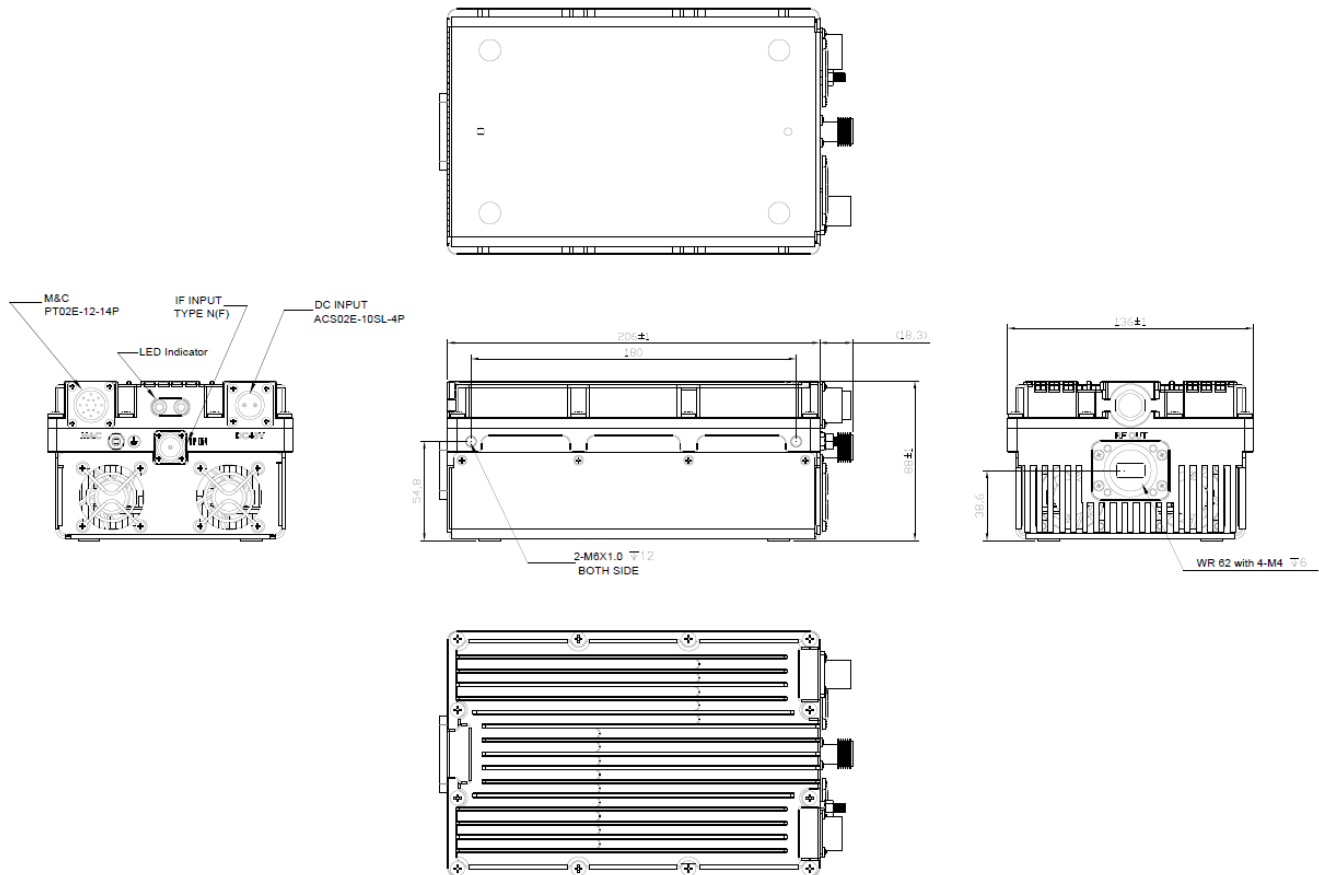
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Section	Item	Specification
	IF Input Connector	N-Type Female
	IF Input VSWR	1.5:1
	Power Supply Connector	ACS02E10SL-4P
	Monitor and Control Connector	PT02E-12-14P, RS-485,RS-232 & Ethernet (Telnet)
	LED Indicators	LEDs off: BUC functioning properly Yellow LED on: PLL unlock alarm
Physical Parameters	Size	206*136*88 mm
	Weight	3.3 Kg
	Operating Temperature	-40 to +60 °C
	Humidity	0-100% (Condensing)
	Altitude	0-10000 F ASL

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Mechanical Diagram (Unit: inch (mm))



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