



GeoSat
Microwave

- High Output, Low Power Consumption
- GAN HEMTs results in best in class MTBF
- Outdoor, Compact, Lightweight Design
- Designed to Meet ETSI & FCC Standards
- RoHS Compliant
- 3 Year GeoSat Product Warranty



5W Ku-Band Block Up-Converter (BUC)

Model: GB37SKU1N



Section	Item	Specification	
Power Requirement	Voltage	+18 to +36 VDC (+24 VDC nominal), +48 VDC (Optional)	
	Power Consumption	70 W @Rated Output Power / 51 W @Linear Output Power	
Input Characteristics	Frequency Range	950 - 1950 MHz, 1000 - 2000 MHz (Optional) 950 - 1450 MHz	
	RF Connector / VSWR	Type N Female / 1.5: 1	
Output Characteristics	Frequency Range	29 - 30 GHz, 30 - 31 GHz, 29.5 - 30 GHz	
	Saturated / Rated / Linear Power	≥37 dBm / 37 dBm / 34 dBm	
	Output Spurious	-55 dBc (Max)	
	RF Connector / VSWR	WR28-G (Grooved) / 1.25: 1	
Transfer Characteristics	External Reference Frequency	10 MHz, 0 ± 5 dBm	
	Gain Variation	1 dB p-p/36 MHz, 3 dB p-p/500 MHz, 4 dB p-p/1000 MHz	
	Gain Stability	±1.5 dB	
	Gain Adjustment Range	20 dB (Step: 1 dB)	
	Small Signal Gain	65 dB(Nominal)	
	IMD3 at Linear Output Power	-25 dBc	
	Phase Noise ▼	100Hz	< -60dBc / Hz
		1kHz	< -70dBc / Hz
10kHz		< -80dBc / Hz	
100kHz		< -90dBc / Hz	
Power Supply Connector	ACS02E10SL-4P		
Monitor & Control Connector	PT02E-12-10P, RS-485 & RS-232 / Ethernet & RS-232 (Optional)		
LED Indicators	Red and Yellow		
Mechanical	Dimension (mm)	206*136*88 mm	
	Weight	≤3.5 Kg	
	Humidity / Altitude	0 - 100% (Condensing) / 0 - 3000 m ASL	
Operating Temperature		-40 to +70 °C	

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