



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 Ka-Band (29-31 GHz) 40W (BUC)

Model: GB40KA2931

Section	Item	Specification
RF Specifications	RF Frequency	1 = 29-30 GHz
		2 = 29.5-30 GHz
		3 = 30-31 GHz
		4 = 29-30 & 30-31 GHz
	IF Frequency	950-1950 MHz
		950-1450 MHz
		1000-2000 MHz
	External Ref	10 MHz, 0 ± 5 dBm
	Outpower	
	Rated/Saturated	46 dBm
	PLin ¹	45 dBm
	PLin ²	44 dBm
	PLin ³	43 dBm
	IMD3 (3dB from rated)	-25 dBc
	Small Signal Gain	70 dBm
	Gain Variation	1 dB p-p / 36 MHz
		3 dB p-p / 500 MHz
		4 dB p-p / 750 MHz
	Gain Stability	3 dB p-p max
Gain Adjustment Range	20 dB (Step: 0.1 dB)	
Phase Noise	-63 dBc/Hz @100 Hz	
	-73 dBc/Hz @1 KHz	
	-83 dBc/Hz @10 KHz	
	-93 dBc/Hz @100 KHz	
Output Spurious	-55 dBc (max)	

Section	Item	Specification
	Notes	PLin ¹ : -26 dBc regrowth, 1.5 SR (commercial satellite) PLin ² : -30 dBc regrowth, 1.0 SR (MIL-STD-188-164B, one-carrier) PLin ³ : <-25 dBc IMD3 (MIL-STD-188-164B, two-carrier)
Power Supply	Input Power	ACS02E10SL-4P
	Power Consumption	
	@ PLin ³ Output	225 W
	@ Rated Output	350 W
Interfaces	RF Output Connector	WR28-G (Grooved)
	RF Output VSWR	1.25:1
	IF Connector	N-Type Female
	IF Input VSWR	1.5:1
	Power Connector	ACS02E-16-11P (DC version)
	M&C Connector	Ethernet, RS485, RS232, and PT02E-12-14P
	Alarm Status Indicator	LED (green/red)
Physical Parameters	Size (inches)	10.2*5.4*4.7
	(mm)	259*136*118
	Weight (inches)	12 lbs
	(mm)	5.8 kg
	Operating Temperature	-40 to +60°C
	Humidity	0-100% (condensing)
	Altitude	0-10,000 feet ASL

www.geosatmicrowave.com

sales@geosatmicrowave.com

Mechanical Diagram (Unit: inch (mm))

