



GeosSat
Microwave

- Highly integrated RF technologies (RFIC and GaN)
- Designed for high volume production
- Linearity optimized for high order modulation and high data rate
- Strict quality control processes resulting in <0.25% field failure rates



Block Up-Converter KU-Band 30W Extended (BUC)

Model: GB30EKU2N

Section	Item	Specification
RF Specifications	RF Frequency	13.75-14.50GHz
	IF Frequency	950-1700MHz
	External Reference	10 MHz, 0±5 dBm
	Saturated Output Power	46 dBm
	PLin1 (-26 dBc regrowth, 1.5 SR)	45 dBm
	PLin2 (-30 dBc regrowth, 1.0 SR (MIL-S TD-188-164B, one-carrier)	44 dBm
	PLin3 (<-25 dBc IMD3 (MIL-STD-188-1 64B, two-carrier))	43 dBm
	IMD3 (3dB from rated)	-25dBc
	Small Signal Gain	
	No M&C (fixed)	70 dB
	With M&C (1dB steps)	50-70 dB
	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 -60 dBc/Hz @100 Hz -75 dBc/Hz @1 KHz -85 dBc/Hz @10 KHz -95 dBc/Hz @100 KHz
	Output Spurious	≤ -55 dBc
Power Supply	Input Power	+36 to +56 VDC
	Power Consumption @ PLin1 Output	135 W
	Output Power	30W P1dB
Interface	RF Output Connector	WR75-G (Grooved)
	IF Input Connector	N-Type Female or F-Type Female

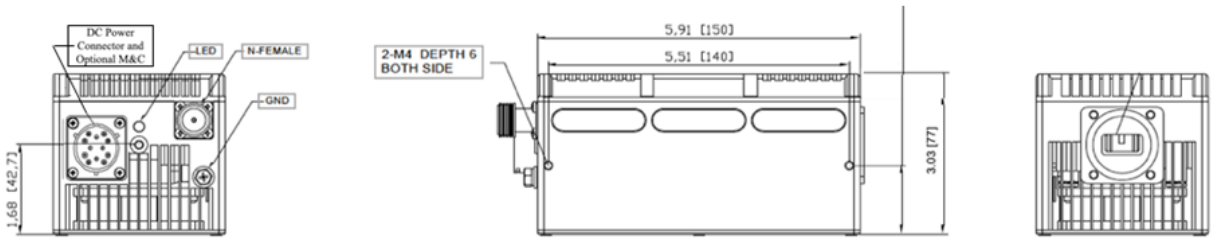
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Section	Item	Specification
	IF Input VSWR	1.5:1
	Power	IFL or Separate DC Connector
	LED Alarm Indicator	Green = normal Red on = PLL alarm Red flashing = Temp alarm
Physical Parameters	Size (inches)	5.9*3.03*2.99
	(mm)	150*80*76
	Weight (lbs)	2.9
	(kg)	1.3
	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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