



# GeosSat Microwave

- Output Frequency Range 13.75 to 14.50 GHz
- Input Frequency Range 950 to 1700 MHz
- LO frequency 12800 MHz
- M&C optional



## 25W GAN KU-BAND BUC

Model: GB25KUG3N

Item	Specification
OUTPUT Frequency Range	13.75 to 14.50 GHz
INPUT Frequency Range	950 - 1700 MHz
LO Frequency (M&C switching)	12800 MHz
M&C	optional
Output Power @ Psat GaN	45 dBm
Linear Power @ -25dB IMD3	42 dBm
Linear gain	65 dB
Gain Flatness (40 MHz BW)	± 0.5 dB max
Gain Variation Over Temperature	± 1.5 dB max (digital compensation)
Phase Noise	< -68 dBc/Hz at 100 Hz, < -78 dBc/Hz at 1 kHz < -88 dBc/Hz at 10 kHz < -110 dBc/Hz > 100 kHz
Spurious @ P1dB	-55dBc max
Input Return Loss	> -15 dB
IF Input/RF Output Interfaces	50 ohm N-type / WR75
Internal Reference	10 MHz sine wave
Ref Stability	⊠ 1x 10E-7 (Minimum requirement)
AC/ DC Voltage /Power consumption	90-250VAC / optional 36-60VDC / 300W
Operating Temperature/ Humidity	-40 °C to 55 °C / up to 98%
Dimensions / Weight	220/240 L x 120 W x 108 H mm / 4.5kg

[www.geosatmicrowave.com](http://www.geosatmicrowave.com)

[sales@geosatmicrowave.com](mailto:sales@geosatmicrowave.com)

### LED Alarms (to LEDs installed)

LED indicator	GREEN	ALL OK
LED indicator	GREEN Blinking	Output Muted
LED indicator	RED	SUMMARY FAULT, No PLL Lock to ext. REF
No LED illumination		No power supply voltage

### Connector Pin Assignment

Connector Name	Type	Pin #	Signal	Parameter
J1 "IF IN"	N/F-type female	N/A	IF Input	5 dBm, max
J2 "RF OUT"	WR-75	N/A	RF Output	45/47 dBm max
J3 "EXT AC POWER IN"	97-3100A-14S-7P	A, C	Line A (AC) (DC)	90 - 240 VAC
		B	Ground	
J4 "M&C Interface" optional	PT02E12-10P-027 10 pin male	A	Rx+ In	RS-485
		B	Rx- In	
		C	Tx+ Out	
		D	Tx- Out	
		E	Detector	0 - 1V (optional)
		F	Alarm Out	Low when alarm
		G	GND	
		H	Mute In	Muted when Low
		J	Rx In	RS-232
		K	Tx Out	

### Mechanical drawing

