



GeoSat Microwave

- Min. 42dBm Output P1dB over Temp.
- Double L.O. (12.80 & 13.05GHz)
- Covers Standard and Extended Freq.
- 3 Year GeoSat Product Warranty



16W Ku-Band Block Up-Converter (BUC)

Model: GB42FKU2N



Section	Item	Specification
Power Requirement	Voltage	48V DC
	Power Consumption	120W max
Input Characteristics	Frequency Range	950 ~ 1450MHz
	Impedance	75 / 50 Ohms
	Input (VSWR)	2:1 max
	IF Connector	F / N-Type (Female)
Output Characteristics	Frequency Range	13.75 ~ 14.5GHz, 14.0-14.5GHz
	Power @ 1dB Comp.	Min. 42dBm over temp.
	Output (VSWR)	2:1 max
	RF Connector	WR 75
Transfer Characteristics	Frequency Sense	Non Inverted
	Local Frequency	12.8 / 13.05 GHz
	External Reference Frequency	10MHz, Sine wave
	Gain	65 dB typ. @ 25 °C
	Gain Variation	> 40MHz - 0.9 dB p_p >500MHz - 0.9 dB p_p > Operating Temp - 0.8 dB p_p @ fixed frequency
	Phase Noise ▼	
		100Hz < -60dBc / Hz 1kHz < -70dBc / Hz 10kHz < -80dBc / Hz 100kHz < -90dBc / Hz
Spurious	-55dBc	
L.O. Leakage	-33 dBm Max.	
IMD (with 2 carries @6db back off)	-30 dBc	
Mute	HPA is turned off in case of LO unlocked.	
Mechanical	Dimension (mm)	120 x 120 x 110mm
	Weight	2.0kg
	Painting	White Color
Operating Temperature	- 40°C ~ + 55°C	