



- *Min. 38dBm Output P1dB over Temp.*
- *Light Weight & Small Size*
- *Leak Protected and 100% Screened*
- *RoHS Compliant*
- *3 Year GeoSat Product Warranty*

6W Ku-Band Block Up-Converter (BUC)

Model: GB38EKU1N



Section	Item	Specification	
Power Requirement	Voltage	+15 ~ +24V DC	
	Power Consumption	51W max	
Input Characteristics	Frequency Range	950MHz ~ 1700MHz	
	Impedance	75 / 50 Ohms	
	Return Loss (VSWR)	2:1	
	IF Connector	F / N-Type (Female)	
Output Characteristics	Frequency Range	13.75GHz ~ 14.5GHz	
	Power @ 1dB Comp.	Min. 38dBm over temp.	
	Return Loss (VSWR)	2:1	
	RF Connector	WR 75	
Transfer Characteristics	Frequency Sense	Non Inverted	
	Local Frequency	12.8GHz	
	External Reference Frequency	10MHz, Sine wave	
	Gain	54 dB typ. @ 25 °C	
	Phase Noise ▼	Reference Phase Noise @ +/- 5dBm Input	
		100Hz < -60dBc / Hz	< -135dBc / Hz
		1kHz < -70dBc / Hz	< -140dBc / Hz
	10kHz < -80dBc / Hz	< -150dBc / Hz	
	100kHz < -90dBc / Hz		
Rx Band Noise Density		<-156dBm/Hz	
Worst Case Lo Product		<-45dBm	
Mute	HPA is turned off in case of LO unlocked.		
Mechanical	Dimension (mm)	202.6 x 142.5 x 57.0	
	Weight	<1.7kg	
	Painting	White Color	
Operating Temperature	- 40°C ~ + 55°C		

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