

# DATA SHEET

Reference Cost: 6000USD

## Ku Band BUC 10W/16W

### Product Introduction

Block Up Converter (BUC) used in the up link of satellite communications can amplify the signal with power. The product uses GaN technologies, has excellent performance and high reliabilities. The integrated design helps to decrease the temperature differences and increase the reliability.

#### Features:

- Low Power Consumption ■ Integrated Design, High Reliability
- Modular Design, Easy to Maintain ■ Voltage, Current Fault Protection
- Over Temp., Power, Reflection Protection

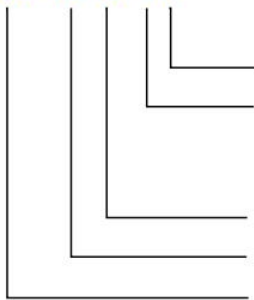


### Main Characteristics

Working Frequency	Output Power	Part Number	VSWR	Dimensions(mm)
Standard Ku Band: Output Frequency 14.0-14.5GHz Input Frequency 950-1450MHz	10W	BUC-Ku10SN	1.5:1/2.0:1	150×80×65
	16W	BUC-Ku16SN		
Extended Ku Band Output Frequency 13.75-14.5GHz Input Frequency 950-1700MHz	10W	BUC-Ku10EN	1.5:1/2.0:1	
	16W	BUC-Ku16EN		

#### How to order:

#### BUC - Ku 16 E N



Input Connector: N-K Connector  
Working Freq.: S: 14.0-14.5GHz  
E: 13.75-14.5GHz (Extended Band)  
Rating Power: 16W  
Frequency: Ku Band  
Category: Block Up Converter

### Specifications

<b>Ku Band BUC</b>	<b>10W</b>	<b>16W</b>
Output Power	≥40dBm	≥42dBm
Output Frequency	14.0-14.5GHz, 13.75GHz-14.5GHz (Extended Band)	
Middle Frequency	950-1450MHz, 950-1700MHz (Extended Band)	
Small Signal Gain	65dB	70dB
Variations	±2dB/Full Band	
Intermodulation	-25dBc	
Spurious	≤-55dBc	
I/O VSWR	1.5:1/2.0:1	
Power Consumption	60W	75W

# DATA SHEET

Reference Cost: 6000USD

## Ku Band BUC 10W/16W

Weight	1KG
Phase Noise	-60dBc/Hz @100Hz -70dBc/Hz @1KHz -80dBc/Hz @10KHz -90dBc/Hz @100KHz
External Reference Requirement Interfaces	10MHz, 0±5dBm Input: N-50K (F-75K optional) Output: BJ-120 Waveguide (Flange FBM120/WR75-G)
Power Supply	Power Supply and M&C: Aviation Socket +18 ~ +55 VDC
Working Temperature	-40°C ~ +60°C
Working Humidity	0 ~ 100%