



Ku BUC 6W/8W



➤ Product features

Ku-band BUC 6W/8W mainly includes transmitting channel, power amplifier, local oscillator circuit; up-convert the L-band intermediate frequency signal to Ku-band power amplification and then transmit it to the satellite.

The product is characterized by miniaturization (the smallest of similar products), and the products are widely used in Ku-band VSAT systems.

Low power consumption (GaN); digital temperature compensation; lock indication; small size; performance indicators reach the international advanced level.

➤ Main indicator parameter

Parameter name	Typical value	
Model	SP-K14-45	
Output frequency	14.0GHz~14.5GHz (basic frequency band) 13.75GHz~14.5GHz (extended frequency band)	
Input frequency	Basic frequency band: 0.95-1.45GHz Extended frequency band: 0.95-1.70GHz	
RF output power P1dB	37dBm	39dBm
Linear gain	62dB typ., 68dB max.	
IMD3	-26dBc@34dBm typ.	-26dBc@36dBm typ.
Spurious	-50dBc max	
Gain flatness	±1dB@36 MHz, ±2.5dB@P-P	



Phase noise	≤ -65 dBc/Hz@ 100 Hz
	≤ -75 dBc/Hz@ 1 kHz
	≤ -85 dBc/Hz@ 10 kHz
	≤ -95 dBc/Hz@ 100 kHz
Input interface	F-type connector (optional N-type connector)
Output Interface	WR-75G
Input standing wave	2:1 typ.
Power supply and power consumption	18~36VDC, 40W@39dBm
Volume	142.6 mm×120 mm×52 mm
Weight	≤ 1 kg
Operating temperature	-40°C~60°C

