

# RADITEK

## SATCOM Ku Band BUC

Ku Band BUC (Block up Converter),  
L Band-2 Watt, External Reference  
RBUC-14.0-14.5-L-2W-ER-v7



Specifications	
Output Frequency	14.0 to 14.5 GHz
1 dB Gain Compression Point (P1dB)	33 dBm min.
Gain at Compression Point	53 dB min.
TX Intermediate Frequency	950 - 1450 MHz
Gain Flatness (500MHz)	5 dB p-p max
Gain Flatness (any 54 MHz)	2 dB p-p max
Gain Variation over Temperature	5 dB max at fixed frequency; 2 dB typical
Group Delay over any 54 MHz	2.5 nS p-p max
RF VSWR	2.0:1 max.
IF VSWR	2.0:1 max.
LO Frequency	13.05 GHz
Phase Noise (SSB)	100 Hz < -60 dBc/Hz
	1 KHz < -70 dBc/Hz
	10 KHz < -80 dBc/Hz
	100 KHz < -90dBc/Hz
RF Interface	WR-75
IF Interface Connector	Type F (female)
IF Interface Impedance	75 Ohms
Ref Signal Phase Noise	100 Hz < -135 dBc/Hz
	1 KHz < -140 dBc/Hz
	10 KHz < -143 dBc/Hz
DC Power	+15 to 30VDC nominal, 28 W max
Operating Temperature	-40° to +55° C
Storage Temperature	-55° to +85° C
Size:	166.45 L x 184 W x 74 H mm
Weight:	2.3 Kg

**Includes:** Built-in TX Mute Function in the case the LO becomes unlocked.  
This includes when there is a loss of 10MHz reference on the input L-Band connector cable. (ER)