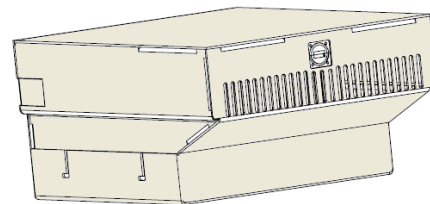




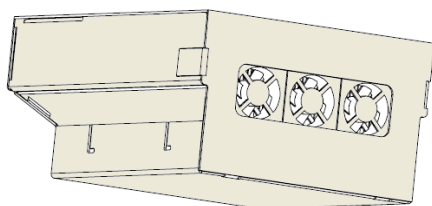
Block Up Converter L to Ku-Band

N-Type Female Connector, 10MHz Ext Reference, 100-250Watts



Key Features

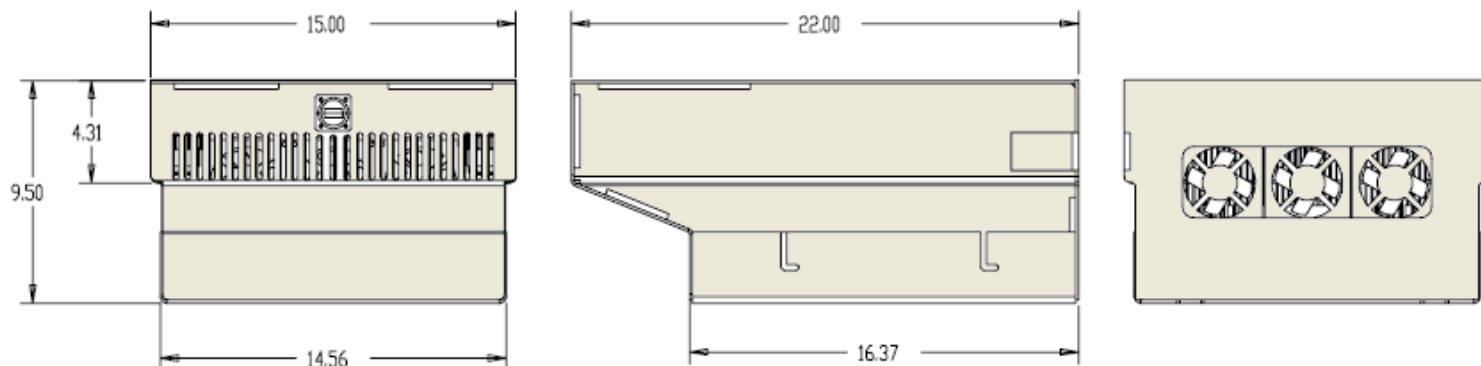
- Superior RF performance:
 - Phase noise 6dB better than IESS308/309
 - P1dB up to 53dBm
 - Spurious below -60dBc
 - Wide dynamic range of Gain Control
- Available in both standard and Extended Ku-Band
- Switchable LO option - standard and Extended Ku-Band in one unit
- True RMS Input and Output Power Detection
- Automated Level Control (ALC) Option
- 10MHz reference auto-sense option
- Full featured M&C Interface via serial EIA485, EIA232, Ethernet, SNMP
- User friendly hosted web GUI
- Redundant ready - no external controller required for 1:N redundant configuration
- Field upgradable software
- Field replaceable plug-In Power Supply option.
- RF Overdrive Protection



Order Examples: RBUC-L(950-1450M) to Ku(14.00-14.50)-Nf-ER10M-200W-i13

Description: (Block Up Converter, L Band(950-1450MHz) to Ku(14.00-14.50GHz), N-Type Female Connector, 10MHz External Reference, 200 Watts

Additional Options: L(950-1700M) Ku(13.75-14.50) 100, 125, 200 or 250 Watts



Mechanic drawing
Unit: Inches
Not to scale

Frequency Information	Unit	Standard	Extended
RF Frequency Range-Available in/switched	GHz	14-14.5	13.75-14.5
IF Frequency Range	MHz	950-1450	950-1700
LO Frequency	GHz	13.05	12.8
Conversion	Single Conversion; non-inverting		

RBUC-LBand to Ku-Nf-ER10M-100-250W-i13

Specifications may be subject to change

11/18/12

WORLD HQ: 1702L Meridian Ave. Suite 127, San Jose, Ca 95125, U.S.A.

Tel: (408) 266-7404

FAX: (408) 266-4483

WEB: www.raditek.com

E-mail: sales@raditek.com

Block Up Converter L to Ku-Band

N-Type Female Connector, 10MHz Ext Reference, 100-250Watts

Parameter	100W	125W	200W	250W
RF Performance				
Output Power at 1dB compression point	49dBm min	50dBm min	52dBm min	53dBm min
Saturated Power	50dBm nom	51dBm nom	53dBm nom	54dBm nom
Conversion Gain	75dB min			
Gain Flatness	+/-1.5dB max over full band; +/-0.5dB max over any 40MHz			
Gain Stability	+/-1.5dB over full temperature range			
Gain Control	20dB min dynamic range			
External Reference Frequency	10MHz			
External Reference Required Phase Noise	100Hz -125dBc/Hz 1kHz -135dBc/Hz 10kHz -145dBc/Hz 100kHz -155dBc/Hz			
Up-Converter Phase Noise	100Hz -66dBc/Hz 1kHz -76dBc/Hz 10kHz -90dBc/Hz 100kHz -100dBc/Hz 1MHz -110dBc/Hz			
Linearity: 2 tone IMD Spectral Regrowth	-25dBc at 3dB total power back off from P1dB -30dBc for QPSK at 1.5xsymbol rate at 2dB back off from P1dB			
Output Spurious: Non-signal related Signal related	-60dBc -55dBc			
Power				
AC Voltage Range	90-265VAC 50-60Hz auto-ranging		190-265VAC 50-60Hz	
Power Consumption	850W	1kW	2kW	2.4kW
Mechanical				
Size	18"x9"x8.5"		22"x15"x9.5"	
Weight	45lbs		1	
Cooling	Forced Air			
Operating temperature	-40°C to +55°C			
Relative Humidity	Up to 100% condensing			
Interfaces				
IF Input Connector	N-type female			
RF Output Connector	WR75 grooved			
AC Power In	Mil Connector			
RS485-RS232-Ethernet-SNMP	Mil Connector			
Redundancy Interface	Mil Connector			