RADITEK

SATCOM
L-C Band BUC

Block Up Converter L to C Band

RoHS COMPLIANT

L-Band (950-1525MHz) to C(5.850-6.425GHz), N or F Type Female Connector, WR137 Flange 10 Watts Output Power

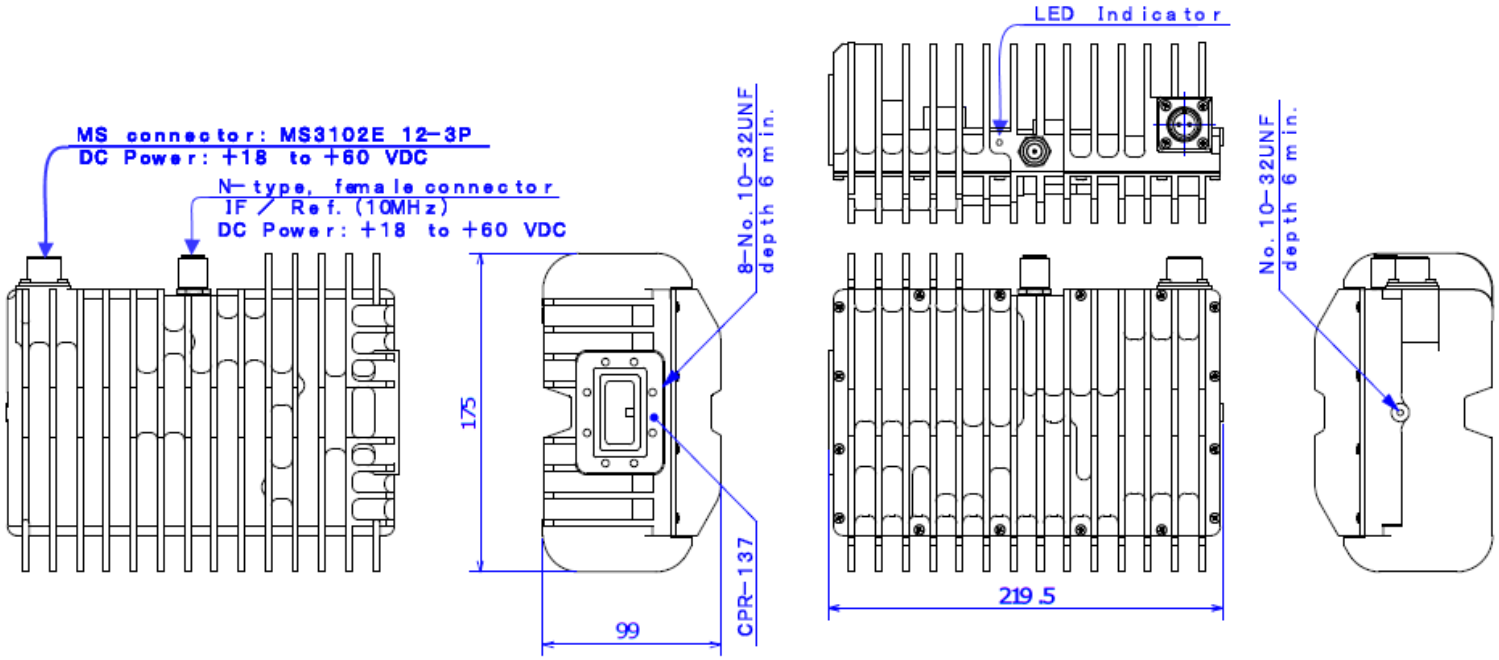
Features:

- **High Efficiency and Low Distortion**
  - **P1dB: +40dBm min. Over Temperature**
  - **IM3: -28dBc @ Pout=+37dBm**
  - **Power Consumption: 69 Watts**
- **Wide Operating Range of DC Power Operation**
  - **Voltage Range: +18 to +60VDC**
- **Compact Size and Light Weight**
  - **Weight: 3.2kg**
- **LED Indicator**

Order Examples: **RBUC-L(950-1525M) to C(5.850-6.425)-Nf-WR137-10W-j6**

Description: *(Block Up Converter, L Band(950-1525MHz) to C(5.850-6.425GHz), N-Type Female Connector, WR137 Flange, 10 Watts)*

Additional Options: **N-Type or F Female**



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 C Band

L-Band (950-1525MHz) to C(5.85-6.425GHz), N or F Type Female Connector, 10 Watts Output Power

ELECTRICAL SPECIFICATIONS

RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	Power Supply	Port for Voltage Input	LED Indicator
5.85 to 6.425 GHz (Standard C-band)	4.90 GHz	950 to 1,525 MHz	10W Linear (+40 dBm min.)	N-type	+24/+48 VDC (+18 to +60 VDC)	Same as IF Connector	Equipped
				F-type			
				N-type		MS Connector (Separate Port)	
				F-type			

Item	Specifications	
Output Interface	Waveguide, CPR137 (with Groove)	
Input Interface	N-type, female (50 ohm)	
	F-type, female (75 ohm)	
Output Power @ 1 dB G.C.P.	+40 dBm min. over temperature	
Linear Gain	64 dB nom., 58 dB min.	
IM3	-28 dBc typ. @ total power = +40 dBm - 3 dB	
Requirement for External Reference	[Frequency]	10 MHz (sine-wave)
	[Input Power]	-5 to +5 dBm @ Input port
	[Phase Noise]	-125 dBc/Hz max. @ 100 Hz
		-135 dBc/Hz max. @ 1 kHz
		-140 dBc/Hz max. @ 10 kHz
L.O. Phase Noise	-60 dBc/Hz max. @ 100 Hz	
	-70 dBc/Hz max. @ 1 kHz	
	-80 dBc/Hz max. @ 10 kHz	
	-90 dBc/Hz max. @ 100 kHz	
Receive Band Noise Density	-87 dBm/4kHz max.	
Input V.S.W.R.	2.0 : 1 max.	
Output V.S.W.R.	2.0 : 1 max.	
Power Requirement	+24 / +48 VDC (+18 to +60 VDC)	
Power Consumption	69 W typ., 75 W max.	
Mute	Shut off the HPA in case of L.O. unlocked or no 10 MHz reference signal.	
LED Indicator	GREEN: L.O. locked / RED: L.O. unlocked or no 10 MHz reference signal	
Port for Voltage Input	Same as IF Connector	
	MS Connector (Separate Port)	
Temperature Range (ambient)	-40 to +55 C (operating), -40 to +75 C (storage)	
Dimension & Housing (without Interface Connectors)	219.5 mm (L) x 175 mm (W) x 99 mm (H)	
	[8.64" (L) x 6.89" (W) x 3.90" (H)]	
Weight	3.2 kg [7.0 lbs]	

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