

RADITEK

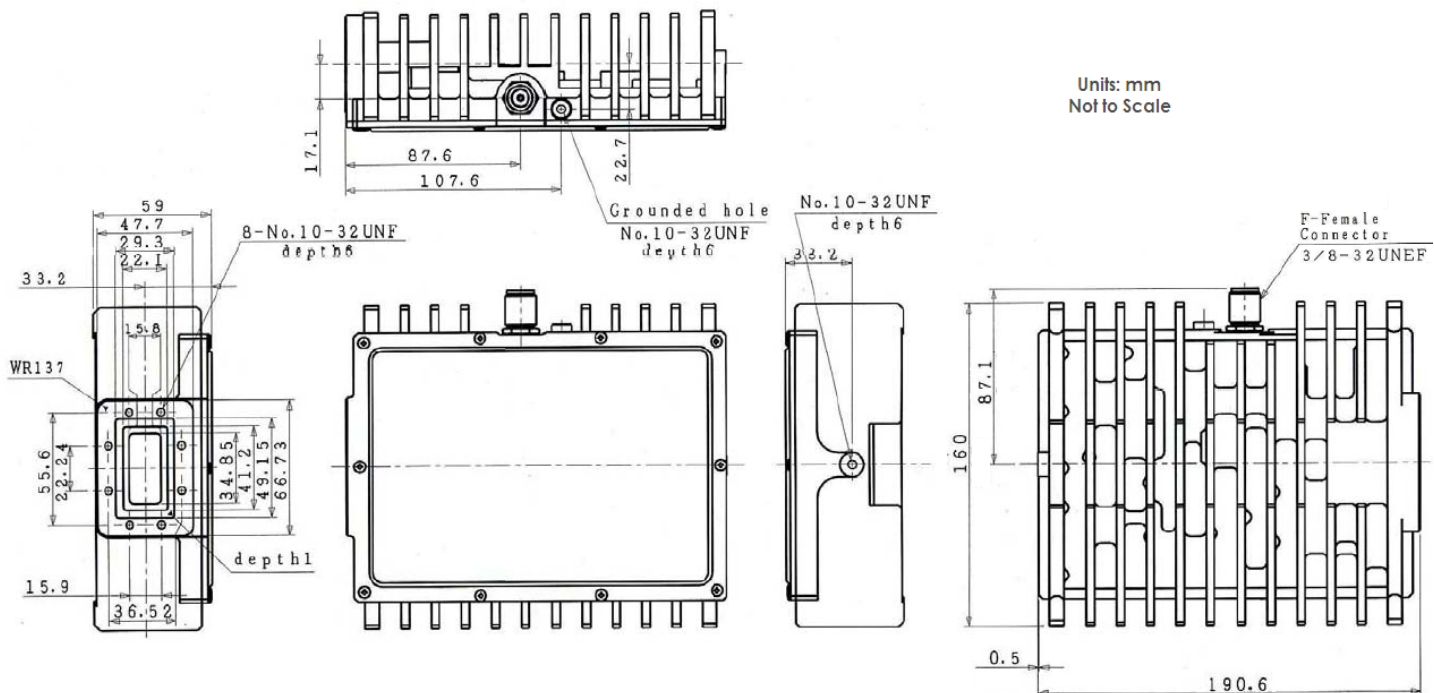
SATCOM L-C Band BUC

Block Up Converter L to C Band L-Band (950-1525MHz) to C(5.85-6.425GHz), N or F Type Female Connector, WR137 Flange, 5 Watts Output Power



Features:

- ❖ Small and Light Weight
- ❖ High Efficiency Output Power
(5W minimum @P1dB Over Temperature)
- ❖ Low Power Consumption
- ❖ RoHS Compliant



Order Examples: RBUC-L(950-1525M) to C(5.850-6.425)-Nf-WR137-5W-j6

Description: (Block Up Converter, L Band(950-1525MHz) to C(5.850-6.425GHz), N-Type Female Connector, WR137 Flange, 5 Watts)

Additional Options:

N-Type or F Female

RBUC-LBand(950-1525M) to C(5.85-6.425)-NF-WR137-5W-j6 Specifications may be subject to change **11/18/12**

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Block Up Converter L to C Band

L-Band (950-1525MHz) to C(5.85-6.425GHz), N or F Type Female Connector, WR137 Flange, 5 Watts Output Power

ELECTRICAL SPECIFICATIONS

Output Frequency Range	5.850 to 6.425 GHz
Input Frequency Range	950 to 1,525 MHz
Conversion Type	Single, fixed L.O.
L.O. Frequency	4.90 GHz
Frequency Sense	Positive
Output Power @ 1dB G.C.P.	+37 dBm min. over temp.
Linear Gain	61 dB nominal
Gain Variation over frequency @ fixed temperature	5.5 dBp-p max. over 575 MHz 2 dBp-p max. over 36 MHz
Gain Stability over temperature @ fixed frequency	5 dBp-p max.
Requirement for External Reference	[Frequency] 10 MHz (sine-wave) [Input Power] -5 to +5 dBm @ Input port [Phase Noise] -120 dBc/Hz max. @ 100 Hz -130 dBc/Hz max. @ 1 kHz -140 dBc/Hz max. @ 10 kHz -150 dBc/Hz max. @ 100 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
Spurious	[In-band] -50 dBc max. @ 5.850 to 6.425 GHz [Receive band] -70 dBm max. @ 3.625 to 4.200 GHz
Receive Band Noise Power	-87 dBm/4kHz max. @ 3.625 to 4.200 GHz
Input Impedance	50 ohms nom. 75 ohms nom.
Input V.S.W.R.	2 : 1 max.
Output V.S.W.R.	2 : 1 max.
Output Load VSWR for Non Damage	Infinite : 1
DC Power Requirement	+15 to +30 VDC 55 W max.
Mute	Shut off the HPA in case of L.O. unlocked

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Block Up Converter L to C Band **L-Band (950-1525MHz) to C(5.85-6.425GHz), N or F Type Female** **Connector, WR137 Flange, 5 Watts Output Power**

MECHANICAL SPECIFICATIONS

Input Interface	N-type, female F-type, female
Output Interface	Waveguide, CPR137-G (Grooved) with Flange
Dimension & Housing	N-type, female 190.6 mm (L) x 167.1 mm (W) x 59 mm (H) [7.50" (L) x 6.58" (W) x 2.32" (H)] F-type, female 190.6 mm (L) x 162 mm (W) x 59 mm (H) [7.50" (L) x 6.38" (W) x 2.32" (H)]
Weight	2.54 kg max. [5.6 lbs]
Vibration	5 G (3 axis, 50 Hz to 2 kHz) 1 mm p-p (3 axis, 5 to 50 Hz)
Shock	30 G (3 axis)

ENVIRONMENTAL SPECIFICATIONS

Temperature Range (ambient)	-40 to +55 C (operating) -40 to +75 C (storage)
Humidity	0 to 100 %
Altitude	15,000 feet
Comply with RoHS (Restricting the use of Hazardous Substance) directives	

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