

RADITEK

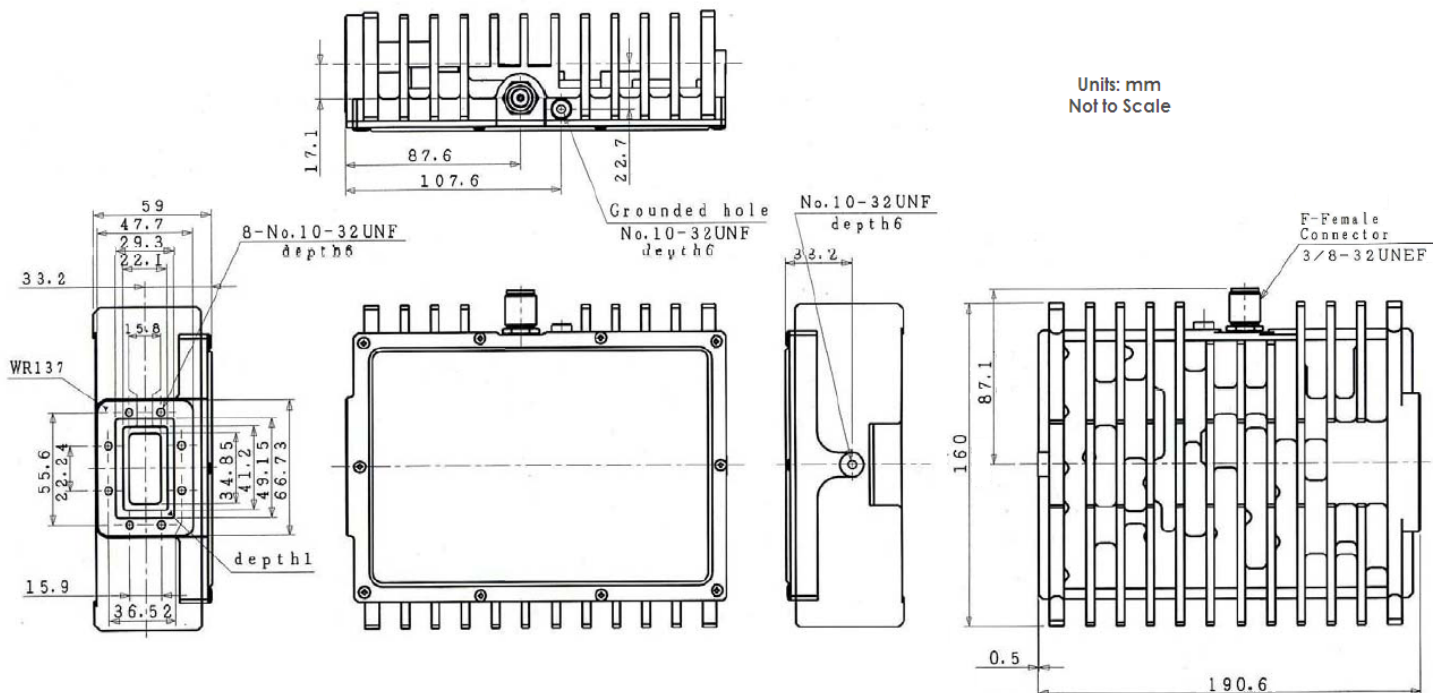
SATCOM L-C Band BUC

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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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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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	