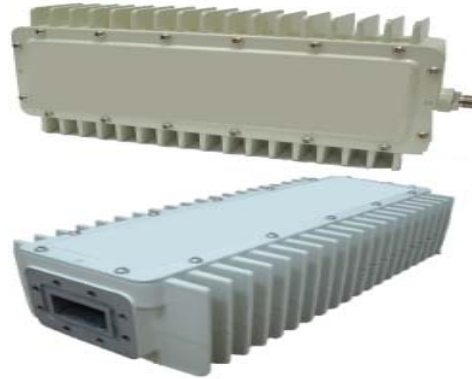


RADITEK

SATCOM L-C Band BUC

Block Up Converter L to C Band F-Type Female Connector, 2 or 5 Watts



Specifications	C Band Extended 2W	C Band Extended 5W	C Band 5W	Units
Input Frequency Range	950 - 1450	950 - 1450	950-1525	MHz
Input Connector	F-Type	F-Type, Female	F-Type, Female	
Input V.S.W.R (max)	2:1	2:1	2:1	
Reference Requirement	10	10	10	MHz
Frequency Power Lower	-5 to +5	-3 to +7	-3 to +7	dBm
D.C Voltage	15-24	15-24	15-24	V
Requirement Power Consumption (max)	25	60	60	Watts
L.O. Frequency	7.675	7.675 (P.L.O.)	7.375 (P.L.O.)	GHz
L.O. Phase Noise	-60 dBc/Hz @ 100Hz -70 dBc/Hz @ 1KHz -80 dBc/Hz @ 10KHz -90 dBc/Hz@100KHz	-60 dBc/Hz @ 100Hz -70 dBc/Hz @ 1KHz -80 dBc/Hz @ 10KHz -90 dBc/Hz@100KHz	-60 dBc/Hz @ 100Hz -70 dBc/Hz @ 1KHz -80 dBc/Hz @ 10KHz -90 dBc/Hz@100KHz	
	RMS < 2.2 deg @ 100Hz – 1MHz	RMS < 2.2 deg @ 100Hz – 1MHz	RMS < 2.2 deg @ 100Hz – 1MHz	
L.O. Leakage	< -37	< -37	< -37	dBm
Frequency Stability	Related to External Ref	Related to External Ref	Related to External Ref	
Output Frequency Range	6.225 - 6.725	6.225-6.725	5.850-6.425	GHz
Output Power (at1dB Gain Compression Point)	33.0 (typ), 32.0 (min)	37.0 (typ) , 36.5 (min)	37.0 (typ) , 36.5 (min)	dBm
Conversion Gain	55dB (typ)	60dB (typ)	60dB (typ)	
Gain Variation Over Temperature	3dB (p-p)	4dB (p-p)	3dB (p-p)	
Gain Flatness Over				
54MHz	1.5dB (p-p)	1.5dB (p-p)	1.5dB (p-p)	
500MHz	4.0dB (p-p)	4.0dB (p-p)	4.0dB (p-p)	
Output Connector	WR137 W/G	WR137 W/G	WR137 W/G	
RX Noise Floor	< -155 dBm/Hz	< -155 dBm/Hz	< -155 dBm/Hz	
Spurious for In-Band	< -50	< -50	< -50	dBc
Spurious for Out-Band	< -70	< -70	< -70	dBc
Operating Temperature	-40 to +55	-40 to +55	-40 to +55	°C
Weight (max)	1500	2700	2700	grams

Order Examples: RBUC-L(950-1525M) to C(5.850-6.425)-Nf-ER10M-5W-i7

Description: (Block Up Converter, L Band(950-1525MHz) to C(5.850-6.425GHz), F-Type Female Connector, 5 Watts
Additional Options: L(950-1450M) C(6.225 - 6.725) 2 or 5 Watts

RBUC-LBand to C-Ff-2 or 5W-i7

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

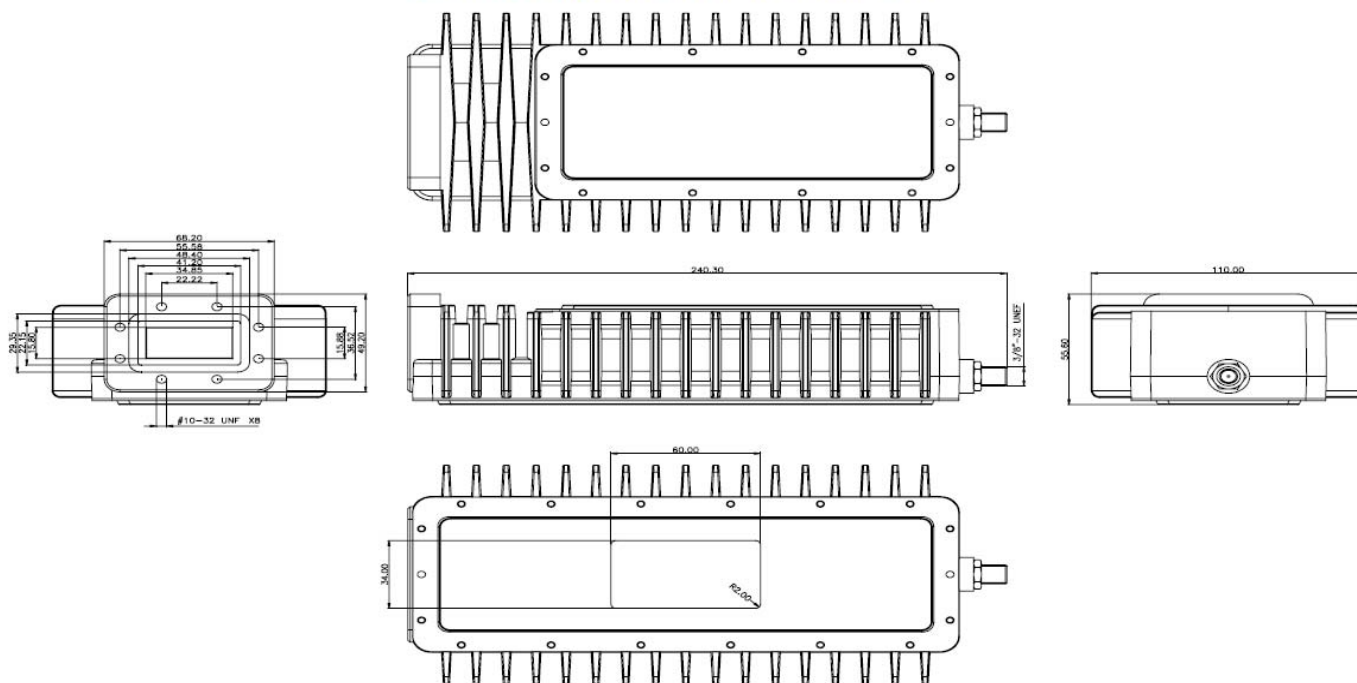
FAX: (408) 266-4483

WEB: www.raditek.com

E-mail: sales@raditek.com

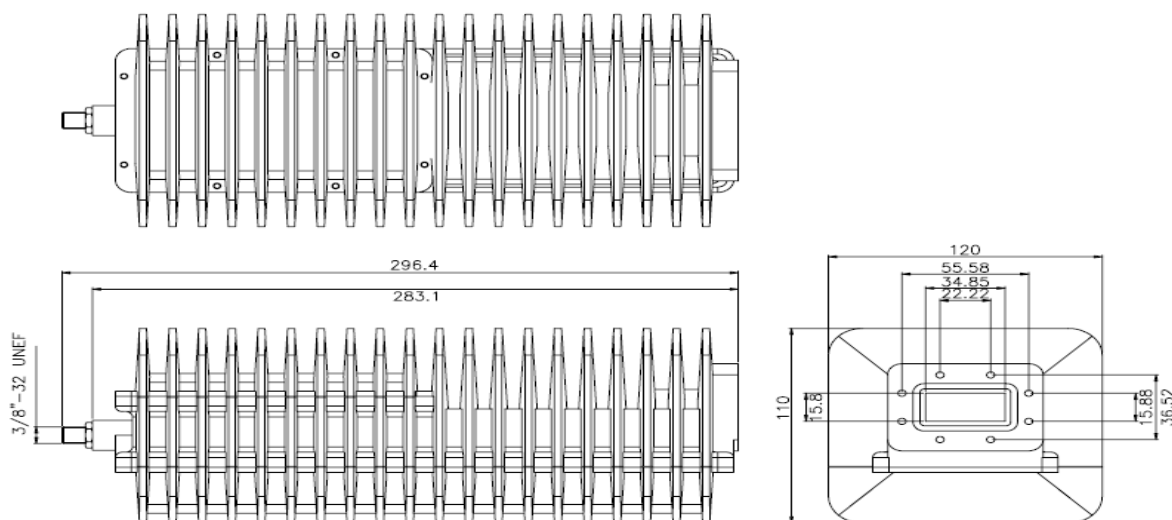
Block Up Converter L to C Band F-Type Female Connector, 2 or 5 Watts

Drawing: Extend C Band 2W



Unit: mm

Drawing: Extend C Band 5W & C Band 5W



Unit: mm

RBUC-LBand to C-Ff-2 or 5W-i7

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