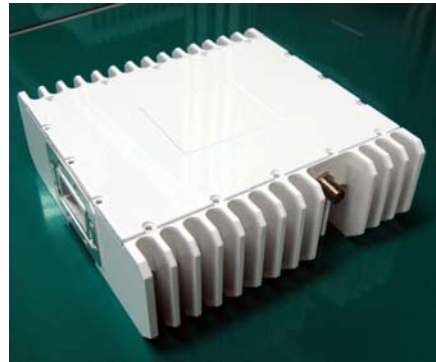




## 5W C-Band Block Up-Converter

*Neo BUC™ Series* are ideal for Broadband VSAT RF terminal.

- 37dBm min. output power
- Supreme Quality
- Small Size & Mass
- Low DC Power Consumption
- Two year Warranty



### Model

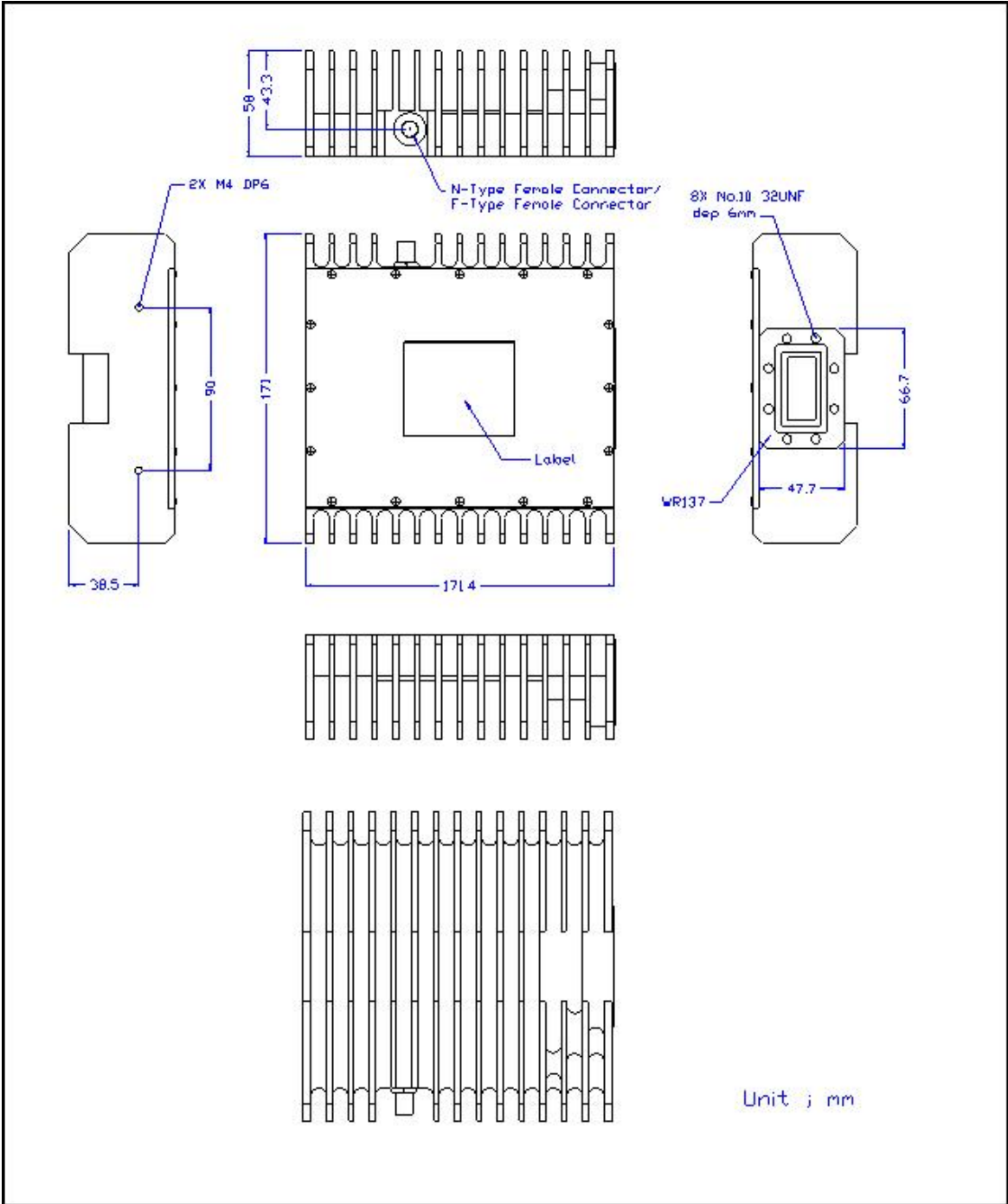
Model Number	Description	RF Band (GHz)	IF Band (MHz)	Output Power (dBm)
TA37-LPF	5W C-band BUC, Std, F/N	5.85 – 6.425	950 – 1,525	+37
TA37-MPF	5W C-band BUC, Insat, F/N	7.725 – 7.025	1,100 – 1,400	+37

### Reference

External Reference	Performance
Input Frequency	10MHz
Impedance	75ohm
Input Power	-5 to +5dBm@ Input port
Phase Noise	-125 dBc/Hz @ 100Hz offset

	<p><b>-135 dBc/Hz @ 1kHz offset</b></p> <p><b>-140 dBc/Hz @ 10kHz offset</b></p>
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**Mechanical Drawing**





# Data Sheet - Std. 5W C-BUC

Model Number : TA37-APF

Model Name : C Std 5W BUC

21-Dec-06

Serial No. :

page 1/1

No	Parameter	Unit	Specifications	Comments
<b>Input Characteristics</b>				
1	Frequency Range	MHz	950 ~ 1525	
2	Impedance F / N Connector	Ohms	75 / 50	
3	Return Loss	dB	>9.5	VSWR 2 : 1
4	Interface		F(f) / N(f)	
<b>Output Characteristics</b>				
5	Frequency Range	GHz	5.85 ~ 6.425	
6	Output Power @ 1dB G.C.P	dBm	>=37	over all operating temperature
7	Spectral Regrowth	dBc	>=26	
8	Return Loss	dB	>9.5	VSWR 2 : 1
9	Interface		CPR137G	
<b>Transfer Characteristics</b>				
10	Frequency Sense		Non-inverted	LO Freq. = 4.90GHz
11	Linear Gain Min.	dB	≥54	Typ. 59dB
	Max.	dB	≤64	
12	Gain Variation			
	Over 40 MHz	dB	1.0	
	Over 575 MHz	dB	4.0	
	Over Operating Temperature	dB	4.0	@ Fixed Frequency
13	Spurious In Band (320KHz)	dBc	≤-50	
	In Band (Full Span)	dBm	≤-23	
	Out of Band (3GHz Span)	dBm	≤-45	
14	RF Off Tx Enabled	dBm/Hz	≤-45	
15	Rx Band Power Density	dBm/Hz	≤-165	Rx Band 3.4 ~ 4.8GHz
16	Worst Case LO Leakage(@4.9GHz)	dBm	≤-45	
17	Phase Noise 10Hz	dBc/Hz		Ext. Reference Phase Noise ( 100Hz/1KHz/10KHz/100KHz) -125 / -140 / -150 /-150 dBc/Hz
	100Hz		-60	
	1KHz		-70	
	10KHz		-80	
	100KHz		-90	
	1MHz			
<b>Miscellaneous</b>				
18	Operating Voltage	Vdc	15~24	
19	Power Consumption	W	≤55	@ P1dB
20	Start All Temperatures	Pass / Fail		
	Ext. Ref. Power Level	dBm	-5 ± +5	@10MHz
21	Operating Temperature	degree C	-40 ~ +55	
22	Humidity	100% Condensing		
23	Internal Function	Lock Detector shuts off Tx in case of unlock		
24	Dimension (L X W X H mm)	172.4 X 171 X 58		
25	Weight	Kg	2	

\* Specifications are subject to change without notice



**Quality Assurance**

**NexGenWave products are manufactured under ISO9001:  
2000 quality certified facility**



NexGenWave, INC

Sicox Tower #621 Sangdaewon 513-14

Sungnam Kyonggi 462-121 Korea

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