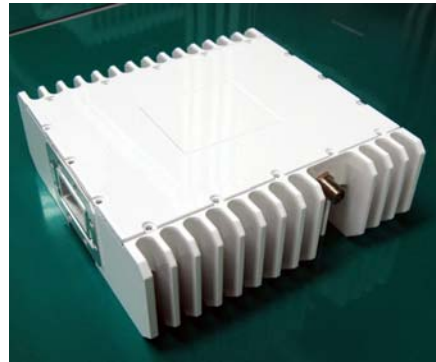




5W C-Band Block Up-Converter

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

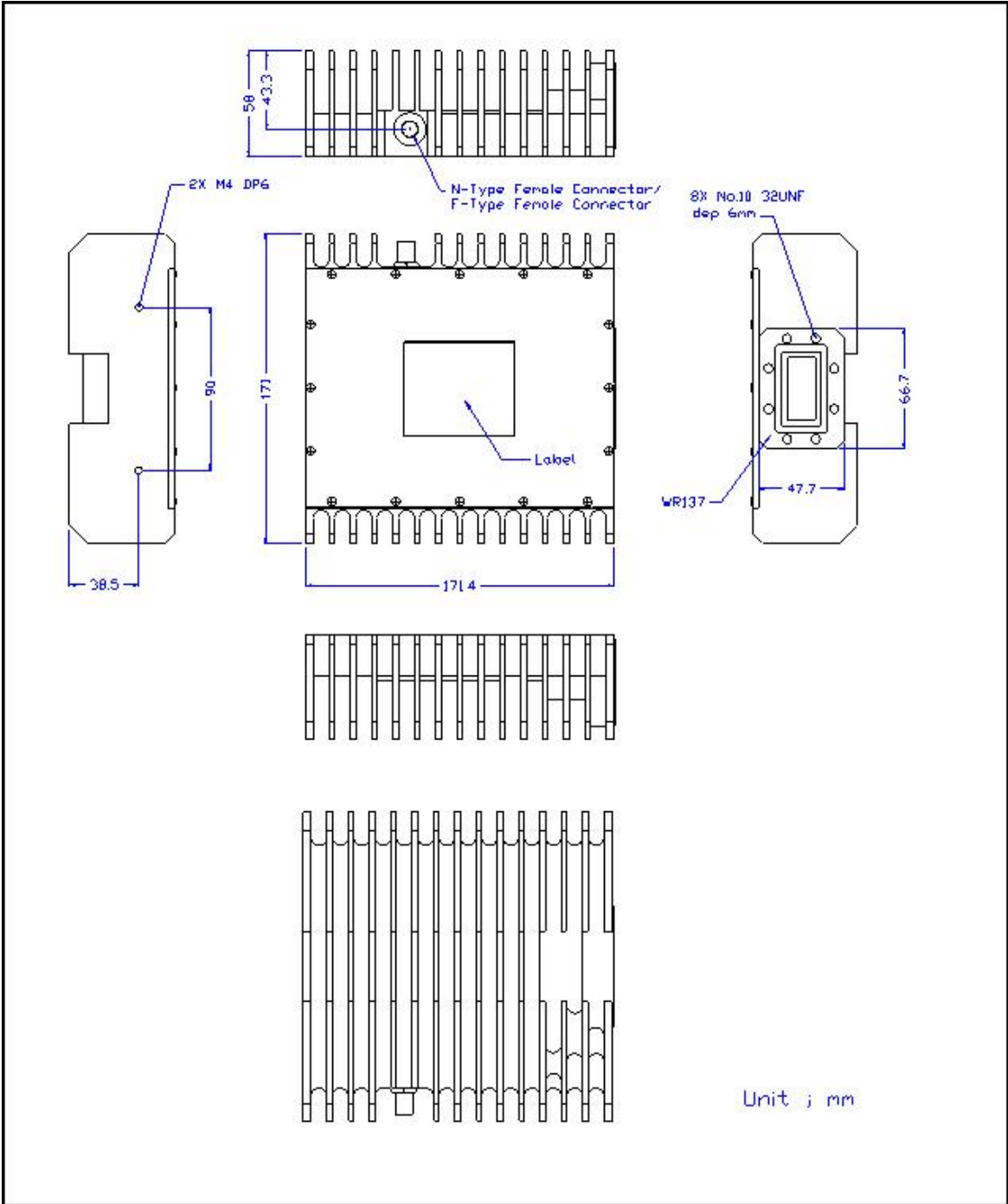
Model Number	Description	RF Band (GHz)	IF Band (MHz)	Output Power (dBm)
TA37-LPF	5W C-band BUC, Std, F/N	5.85 – 6.425	950 – 1,525	+37
TA37-MPF	5W C-band BUC, Insat, F/N	7.725 – 7.025	1,100 – 1,400	+37

Reference

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

	<p>-135 dBc/Hz @ 1kHz offset</p> <p>-140 dBc/Hz @ 10kHz offset</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	
Input Characteristics					
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)		
Output Characteristics					
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		
Transfer Characteristics					
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					
Miscellaneous					
18	Operating Voltage	Vdc	15~24		
19	Power Consumption	W	≤ 55	@ P1dB	
20	Start All Temperatures Ext. Ref. Power Level	Pass / Fail			
		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

Tel: +82-31-777-9912 Fax: +82-31-777-9916

www.nexgenwave.com