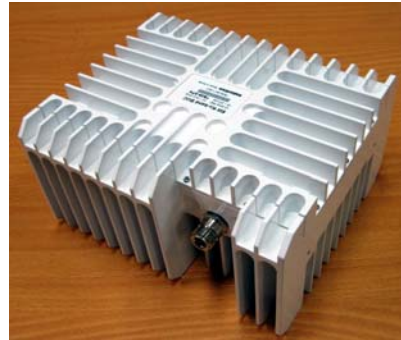




10W C-Band Block Up-Converter

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

- 40dBm min. output power
- Supreme Quality
- Small Size & Mass
- Two year Warranty



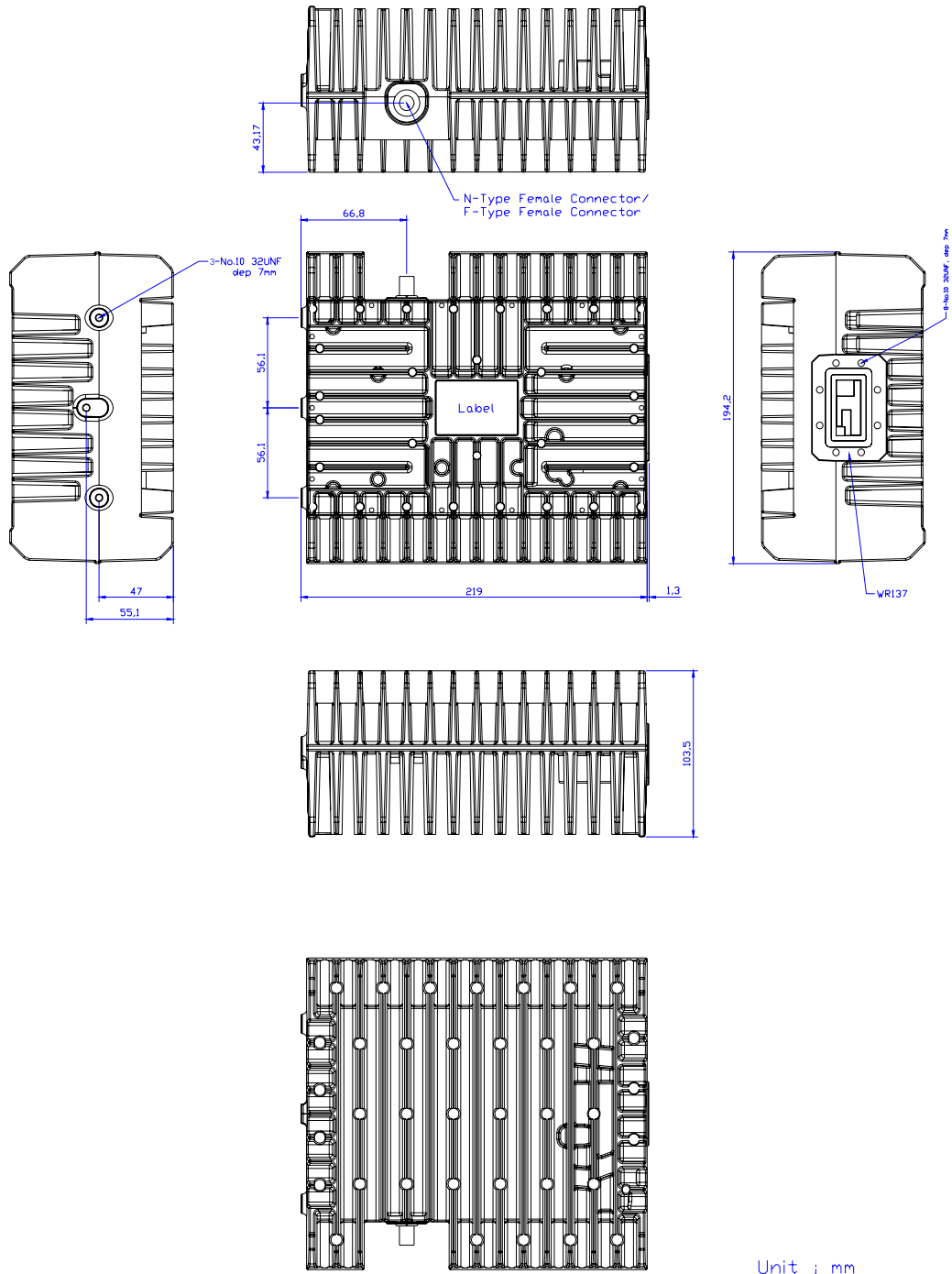
Model

Model Number	Description	RF Band (GHz)	IF Band (MHz)	Output Power (dBm)
TA40-LPF	10W C-band BUC, Std, F/N	5.85 – 6.425	950 - 1525	+40

Reference

External Reference	Performance
Input Frequency	10MHz
Impedance	75ohm
Input Power	-5 to +5dBm@ Input port
Phase Noise	-125 dBc/Hz @ 100Hz offset -135 dBc/Hz @ 1kHz offset -140 dBc/Hz @ 10kHz offset

Mechanical Drawing





C-band Std. 10W BUC

Model Number : TA40-LPFE

Model Name : C std 10W BUC

Serial No. :

5-Mar-07

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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	>=40	@ Worst Case	
7	Return Loss	dB	>9.5	VSWR 2 : 1	
8	Interface		CPR137G		
Transfer Characteristics					
9	Frequency Sense		Non-Inverted	LO Freq. = 4.90GHz	
10	Linear Gain	Min.	dB	≥57	Typ. 62dB
		Max.	dB	≤67	
11	Gain Variation	Over 50 MHz	dB	1.5	
		Over 575 MHz	dB	4.0	
		Over Operating Temperature	dB	4.0	@ Fixed Frequency
12	Spurious	In Band (320KHz)	dBc	≤ -50	
		In Band (Full Span)	dBm	≤ -23	
		Out of Band (3GHz Span)	dBm	≤ -45	
13	RF Off Tx Enabled	dBm/Hz	≤ -45		
14	Worst Case LO Leakage(@4.9GHz)	dBm	≤ -45		
15	Phase Noise	10Hz	dBc/Hz	-60	Ext. Reference Phase Noise (100Hz/1KHz/10KHz/100KHz) -125 / -140 / -150 /-150 dBc/Hz
		100Hz			
		1KHz			
		10KHz			
		100KHz			
		1MHz			
Miscellaneous					
16	Operating Voltage	Vdc	18~24	opt. 36~60Vdc	
17	Power Consumption	W	≤ 100		
18	Start All Temperatures	Pass / Fail			
	Ext. Ref. Power Level	dBm	-5 ± +5	@10MHz	
19	Operating Temperature	degree C	-40 ~ +55		
20	Humidity	100% Condensing			
21	Internal Function	Lock Detector shuts off Tx in case of unlock			
22	Dimension (L X W X H mm)	220 X 194 X 103.5			
23	Weight	Kg	4.1		

*** Specifications are subject to change without notice**



Quality Assurance

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



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