

5W C-Band Block Up-Converter

Level421 OEM 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

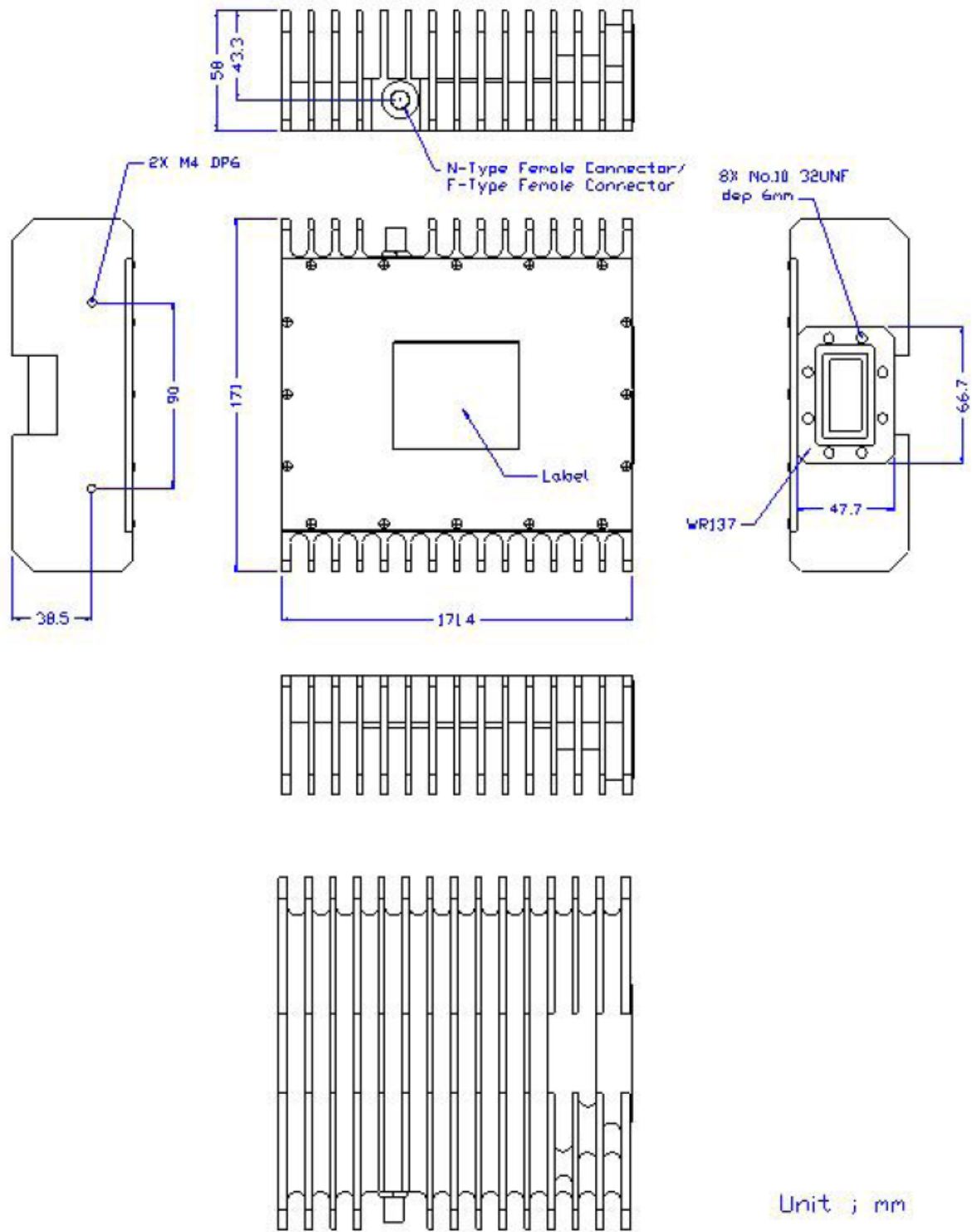


Model

Model Number	Description	RF Band (GHz)	IF Band (MHz)	Output Power (dBm)
Regular C-Band	5W C-Band BUC, Std, F/N	5.85 – 6.425	950 – 1,525	+37
Extended X C-Band	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 -135 dBc/Hz @ 1kHz offset -140 dBc/Hz @ 10kHz offset



Unit ; mm

Specifications

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 100Hz 1KHz 10KHz 100KHz 1MHz	dBc/Hz		Ext. Reference Phase Noise (100Hz/1KHz/10KHz/100KHz) -125/-140/-150/-150 dBc/Hz
			-60	
			-70	
			-80	
			-90	
Miscellaneous				
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	@100MHz
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 (LxWxH mm)	172.4x171x58		
25	Weight	Kg	2	