

2W Ku-band BUC

2005. 12. 26

No	Parameter	Unit	Specifications	Remarks
Input Characteristics				
1	Frequency Range	MHz	950 ~ 1450	
2	Impedance	F / N Connector	75	
3	Return Loss	dB	9.5	VSWR 2:1
4	Connector	-	F(f)	
Output Characteristics				
5	Frequency Range	GHz	14 ~14.5	
6	Power @ 1dB Comp (dBm)	dBm	33 min.	
8	Return Loss	dB	9.5	VSWR 2:1
9	Connector	-	WR75	
Transfer Characteristics				
10	Frequency Sense	-	Non-inverted	LO Freq. = 13.05GHz
11	Linear Gain	Min.	dB	50
		Max.	dB	60
12	Gain Variation	Over 54 MHz	dBp_p	1.5
		Over 500 MHz	dBp_p	4.0
		Over Operating Temperature	dBp_p	4.0
13	Spurious	In Band (Full Span)	dBm	≤ -23
		Out of Band (3GHz Span)	dBm	≤ -45
		Spurious in Rx Band	dBm	≤ -70
14	Mute Output Power In case of L.O. Unlocked	dBm	≤ -45	
15	In Band Noise Emission	dBm/Hz	≤ -95	
16	Worst Case LO Leakage	dBm	≤ -45	
17	Worst Case Second Harmonics	dBm	≤ - 45	@ 28 ~ 29GHz
18	Rx Band Power Density @10.7~12.75GHz	dBm/Hz	-160	Rx Band 10.7~12.75GHz
19	L.O. Phase Noise	@100Hz	dBc/Hz	-60
		@1KHz	dBc/Hz	-70
		@10KHz	dBc/Hz	-80
		@100KHz	dBc/Hz	-90
		@1MHz	dBc/Hz	-100
Miscellaneous				
20	Ref. Singal	Frequency	MHz	10
		Power Level	dBm	-15 ~ +5
	Phase Noise	@100Hz	dBc/Hz	-125
		@1KHz		-135
@10KHz	-140			
21	Shut off the Output when L.O. Unlocked	-	O.K.	
22	Operating Voltage	Vdc	15 ~ 24	
23	Power Consumption	W	20	
26	Operating Temperature	degree C	-40 ~ +55	
27	Storage Temperature	degree C	-40 ~ +75	
28	Humidity	%	0 ~ 100	
29	Dimension	(L x W x H)mm	170/130/40	
30	Weight	Kg	1.2	