

IBUC Test Data Sheet

Chamber

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Model Number: IBUC064067-1AC040-003	Serial Number: TE5019055	Test Date: 10/18/2011
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Parameter	Specification	Test Condition	Data Type	Measured Value				
				F1 Freq. (MHz) 6425	F2 Freq. (MHz) 6575	F3 Freq. (MHz) 6725		
Local Osc: 7700 MHz Palapa C-band								
Output Power (P1dB) 40 Watts	46 dBm min.	@+20C	Data	46.6	46.5	46.5	dBm PASS	
		@-40C	Data	46.5	46.4	46.4	dBm PASS	
		@+60C	Data	46.4	46.3	46.2	dBm PASS	
Gain 40 Watts	Min Atten. 77-83 dB min.	Max Atten. 67 dB max.	-40C to +60C	Plot	See plot		PASS	
Gain Flatness								
Full Band	3 dB p-p max.	-40C to +60C	Plot #1	See plot			PASS	
Any 36 MHz Band	1 dB p-p max.	-40C to +60C					PASS	
Over Temperature (Open Loop)	3 dB p-p max.	-40C to +60C					PASS	
Intermodulation IM3 (2 carriers, 3d3 Total Backoff)	-27 dBc max.	@+20C @-40C @+60C	Data Data Data	-34.7 -34.5 -32.8	-34.2 -34.8 -31.3	-33.5 -34.8 -31.0	dBc dBc dBc PASS PASS PASS	
Spurious (in any 100KHz band; @ max gain / rated power)								
RF band +/- 150MHz	-18 dBm max.	@+20C @-40C @+60C	Data Data Data	<-18 -18 -18	<-18 -18 -18	<-18 -18 -18	dBm dBm dBm PASS PASS PASS	
Out of band								
a) 3.40 GHz to 6.050 GHz 7.10 GHz to 10.70 GHz	-43 dBm max.	@+20C @-40C @+60C	Data Data Data	<-43 -43 -43	<-43 -43 -43	<-43 -43 -43	dBm dBm dBm PASS PASS PASS	
b) 6.050 GHz to 6.275 GHz 6.875 GHz to 7.10 GHz	-23 dBm max.	@+20C @-40C @+60C	Data Data Data	<-23 -23 -23	<-23 -23 -23	<-23 -23 -23	dBm dBm dBm PASS PASS PASS	
Detector Accuracy +/-1.0 dB max.								
Frequency (MHz)	Level (dBm)	Output Detector			Input Detector			
		@-40C	@+20C	@+60C	@-40C	@+20C	@+60C	
6440	45	0.0	0.0	-0.1	-17 dBm 0.6	0.4	0.2	PASS
	37	-0.1	0.0	0.0	-35 dBm 0.3	0.1	0.0	PASS
	27	-0.1	-0.1	-0.1	-58 dBm 0.1	0.0	-0.1	PASS
	45	0.0	-0.1	-0.1	-17 dBm 0.7	0.4	0.2	PASS
6590	37	-0.1	0.0	-0.1	-35 dBm 0.3	0.0	-0.1	PASS
	27	-0.2	-0.2	-0.1	-58 dBm 0.1	0.0	-0.2	PASS
	45	0.0	-0.1	-0.1	-17 dBm 0.5	0.2	0.0	PASS
6710	37	-0.1	-0.1	-0.1	-35 dBm 0.0	-0.2	-0.3	PASS
	27	-0.2	-0.1	0.0	-58 dBm -0.2	-0.3	-0.4	PASS
Phase Noise								
100 Hz offset	-70 dBc/Hz max.	Data / Plot			@-40C <-70	@+20C <-70	@+60C <-70	dBc/Hz PASS
1 KHz offset	-80 dBc/Hz max.	Data / Plot			@-40C <-80	@+20C <-80	@+60C <-80	dBc/Hz PASS
10 KHz offset	-90 dBc/Hz max.	Data / Plot			@-40C <-90	@+20C <-90	@+60C <-90	dBc/Hz PASS
100 KHz offset	-100 dBc/Hz max.	Data / Plot			@-40C <-100	@+20C <-100	@+60C <-100	dBc/Hz PASS
1 MHz offset	-110 dBc/Hz max.	Data / Plot			@-40C <-110	@+20C <-110	@+60C <-110	dBc/Hz PASS
DRO Tune Voltage	> 1.5 VDC < 6.5 VDC		Data	@-40C 2.8	@+20C 3.5	@+60C 3.8	VDC	PASS
Transmit Shutdown								
TX Off / Remove 10MHz	>60 dB drop off	@+20C @-40C @+60C	Check Check Check	Pass Pass Pass				
Cold Start								
Remove DC Power	Reacquires Lock	@+20C @-40C @+60C	Check Check Check	Pass Pass Pass				
Power Supply Check								
Voltage Range	100 to 240 VAC	@+20C	Check	Pass				
Current	3.6 A typical	@100 VAC	Data	@-40C 1.45	@+20C 1.45	@+60C 1.41	Amps	
Voltage	100 to 240 VAC		Data	203.5	203.4	205.2	VAC	
Wattage	363 VA		Data	295.1	294.9	289.3	VA	PASS
Monitor and Control Checks								
RS232 Check		@+20C	Check	Pass				
RS485 Check		@+20C	Check	Pass				
FSK Check		@+20C	Check	Pass				
TCP/IP Check		@+20C	Check	Pass				
External LED Check		@+20C	Check	Pass				
Relay Check		@+20C	Check	Pass				
Default M&C Settings		@+20C	Check	Pass				
10 MHz Detector	Over Temperature		Check	Pass				