



	Range	Units	Notes
<b>Electrical Specifications</b>			
Input Frequency	950-1450	MHz	
Output Frequency	7.90-8.40	GHz	6.95 GHz LO
External Reference			
Frequency	10	MHz	
Level	0 dBm +/-5 dB		
Phase Noise (SSB)			
@ 1 kHz offset	-73 max., -76 typ.	dBc/Hz	
@ 10 kHz offset	-83 max., -95 typ.	dBc/Hz	
@ 100 kHz offset	-93 max., -110 typ.	dBc/Hz	
Gain	60 min., 64 typ.	dB	70 dB min. optional
Gain Flatness	+/-1.25 max.	dB	per full band
Gain Slope	+/-0.4 max.	dB	per 40 MHz
Stability over temperature	+/- 2.0	dB	
Gain Adjust	31.5 dB, 0.5 dB steps		
P <sub>1dB</sub>	+49.5 min., 50.3 typ.	dBm	
P <sub>sat</sub>	50.5 min.	dBm	
Third Order Intermodulation Distortion	-25 max.	dB	@ 3 dB backoff relative to rated P <sub>1dB</sub>
Output Noise Power (7.9-8.4 GHz)	-98 typ.	dBm/Hz	
Output Noise Power (7.25-7.75 GHz)	-128 typ.	dBm/Hz	
Input VSWR	1.50 typ., 2.00 max.	:1	
Output VSWR	1.25 typ., 1.30 max.	:1	Isolator Included
Overdrive	+0 max.	dBm	non-damaging
Spurious, Signal Related (@ rated output)	-60 max.	dBc	within rated output band
Spurious, Signal Independent (@ rated output)	-60 max.	dBc	outside of band
M&C Function	Mute, Temp. Mon., Fault, Gain Adj.		
Power Requirement			
Input Voltage	+40 to +56	vdc	AC Powered Unit Available
Power (small signal conditions)	460 nom.	watts	
<b>Mechanical Specifications</b>			
Size (see attached outline)	14.50 x 7.50 x 7.50	inches	L x W x H
Weight	26 nom.	lbs.	
Finish	epoxy paint		specify: white, green or tan
Connectors			
IF Input/Ext. Reference/Sample Output	Type N	Female	
RF Output	UG-51/U Flange		CPR112G Optional
DC Power/M&C	KPT02E-14-12-P		
<b>Environmental</b>			
Operating Temperature	-40 to +60	°C	
Humidity	100	%	with condensation

Specifications are subject to change at the discretion of Locus Microwave, Inc.

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UB61000-050 Outline

