



## VCO Product Specification

**Model:** VCO-114TC      **Rev:** -      **Date:** 7/22/2002

**Customer:** SIRENZA MICRODEVICES, INC.

**Operating Temperature Range:** ( -55 ° to 100 ° C)

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	60		120	MHz	X	
Tuning Voltage:						
60 MHz	0	1.2		Vdc	X	
120 MHz		17	20	Vdc	X	
Tuning Sensitivity:						
60	2.3	3	3.8	MHz/V	X	
75	3.1	4.2	5.2	MHz/V	X	
90	3.8	5	6.3	MHz/V	X	
105	3	4	5.1	MHz/V	X	
120	1.6	2.2	2.7	MHz/V	X	
Output Power -	10	12.5	16	dBm	X	
Output Phase Noise:						
10 kHz		-110	-104	dBc/Hz	X	
100 kHz		-130	-124	dBc/Hz	X	
1000 kHz		-150	-144	dBc/Hz	X	
Power Supply -	14.75	15	15.25	Volts	X	
Supply Current -		12.5	15	mA	X	
Harmonic Suppression:						
2nd Harmonic		-15	-10	dBc	X	
3rd Harmonic		-12	-10	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 14.75-15.25 V		0.05	0.2	MHz p-p		
Frequency Pulling - 12 dB RL		1	3	MHz p-p		
Output Impedance -		50		Ω		
Modulation:						
Bandwidth	100	175		kHz		
Input Impedance		0.05		kΩ		

### Package Information

Package Type:	TO-8 (Cir)	Drawing Number:	A8678
Dimensions:	0.504 x 0.504 x 0.27 inches	Drawing Revision:	P

### Comments

**X** Indicates parameter to be tested 100% in production

Performance tests and ratings for Sirenza Microdevices' products were performed internally by Sirenza and measured using specific computer systems and/or components and reflect the approximate performance of the products as measured by those tests. Any difference in circuit implementation, test software, or test equipment may affect actual performance. The information provided herein is believed to be reliable at press time and Sirenza Microdevices assumes no responsibility for the use of this information. All such use shall be entirely at the user's own risk. Prices and specifications for Sirenza Microdevices' products are subject to change without notice. Buyers should consult Sirenza Microdevices' standard terms and conditions of sale for Sirenza's limited warranty with regard to its products. These products may be patented or include patented technology. No patent rights or licenses to any of the circuits described herein are implied or granted to any third party. Sirenza Microdevices does not authorize or warrant any product for use in life-support devices and/or systems.