



## VCO Product Specification

**Model:** VCO790-2300T(Y)      **Rev:**      **Date:** 8/31/2006

**Customer:** SIRENZA MICRODEVICES, INC.

**Operating Temperature Range:** ( -35 ° to 85 ° C)

**Pb RoHS Compliant**

To order models as RoHS Compliant add "Y" suffix to base model number.

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	2100	2300	2500	MHz	X	
Tuning Voltage:						
2100 MHz	0.5	1.5		Vdc	X	
2500 MHz		3.9	4.5	Vdc	X	
Tuning Sensitivity:						
2100 MHz	161	215	269	MHz/V	X	
2200 MHz	150	200	250	MHz/V	X	
2300 MHz	144	192	241	MHz/V	X	
2400 MHz	128	171	213	MHz/V	X	
2500 MHz	108	145	181	MHz/V	X	
Output Power -	0	3	6	dBm	X	
Output Phase Noise:						
10 kHz		-90	-84	dBc/Hz		
100 kHz		-112	-106	dBc/Hz	X	
Power Supply -	4.75	5	5.25	Volts	X	
Supply Current -		15	20	mA	X	
Harmonic Suppression:						
2nd Harmonic		-25	-10	dBc	X	
3rd Harmonic		-30	-10	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 4.75-5.25 V		10	25	MHz p-p		
Frequency Pulling - 12 dB RL		12.5	25	MHz p-p		
Tuning Port Capacitance -		68		pF		
Output Impedance -		50		Ω		

### Package Information

Package Type:	T (0.5 x 0.5 x 0.156 inches)	Drawing Number:	60035
---------------	------------------------------	-----------------	-------

### 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 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.