



## VCO Product Specification

**Model:** VCO793-750T(Y)      **Rev:**      **Date:** 8/31/2006

**Customer:** SIRENZA MICRODEVICES, INC.

**Operating Temperature Range:** ( -40 ° 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 -	500		1000	MHz	X	
Tuning Voltage:						
500 MHz	0	2.2		Vdc	X	
1000 MHz		18	20	Vdc	X	
Tuning Sensitivity:						
500 MHz	33	38	43	MHz/V	X	
625 MHz	33	38	43	MHz/V	X	
750 MHz	35	40	45	MHz/V	X	
875 MHz	30	39	44	MHz/V	X	
1000 MHz	24	29	34	MHz/V	X	
Output Power -	1	6	10	dBm	X	
Output Phase Noise:						
1 kHz		-79	-74	dBc/Hz		
10 kHz		-104	-99	dBc/Hz		
100 kHz		-124	-119	dBc/Hz	X	
1000 kHz		-144	-139	dBc/Hz		
Power Supply -	11.5	12	12.5	Volts	X	
Supply Current -		25	30	mA	X	
Harmonic Suppression:						
2nd Harmonic		-6		dBc	X	
3rd Harmonic		-18		dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 11.5-12.5 V		1.5	3	MHz p-p		
Frequency Pulling - 12 dB RL		2	5	MHz p-p		
Tuning Port Capacitance -		220		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

\*\*\* Tuning curve is monotonic from Vt=0 Vdc to Vmax and is guaranteed to oscillate to Vt=0 Vdc

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.