



## VCO Product Specification

**Model:** VCO190-2420T      **Rev:** A      **Date:** 4/21/2003  
**Customer:** SIRENZA MICRODEVICES, INC.  
**Operating Temperature Range:** ( -35 ° to 85 ° C)

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	2370	2420	2470	MHz	X	
Tuning Voltage:						
2370 MHz	0.5	1		Vdc	X	
2470 MHz		4	4.5	Vdc	X	
Tuning Sensitivity -	35	45	55	MHz/V	X	
Output Power -	-1	2	5	dBm	X	
Output Phase Noise:						
10 kHz		-98	-90	dBc/Hz		
100 kHz		-119	-110	dBc/Hz	X	
Power Supply -	4.75	5	5.25	Volts		
Supply Current -		14	16	mA	X	
Harmonic Suppression:						
2nd Harmonic		-20	-10	dBc	X	
3rd Harmonic		-25	-10	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 4.75-5.25 V		1.5	3	MHz p-p		
Frequency Pulling - 12 dB RL		2	7.2	MHz p-p		
Tuning Port Capacitance -			120	pF		
Output Impedance -		50		$\Omega$		

### Package Information

Package Type:	T	Drawing Number:	60035
Dimensions:	0.5 x 0.5 x 0.156 inches	Drawing Revision:	E

### 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.

Page 1 of 1