



VCO Product Specification

Model: VCO190-422MT **Rev:** A **Date:** 4/22/2003

Customer: SIRENZA MICRODEVICES, INC.

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

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	414	422	430	MHz	X	
Tuning Voltage:						
414 MHz	1	1.5		Vdc	X	
430 MHz		3.6	4	Vdc	X	
Tuning Sensitivity -	5	7	9	MHz/V	X	
Output Power -	-2	1	4	dBm	X	
Output Phase Noise:						
10 kHz		-118	-112	dBc/Hz		
100 kHz		-138	-132	dBc/Hz	X	
Power Supply -	4.75	5	5.25	Volts		
Supply Current -		11	15	mA	X	
Harmonic Suppression:						
2nd Harmonic		-11	-8	dBc	X	
3rd Harmonic		-20	-10	dBc	X	
Spurious (Non-Harmonic) -			-90	dBc		
Frequency Pushing - 4.75-5.25 V		0.1	1	MHz p-p		
Frequency Pulling - 12 dB RL		0.2	1	MHz p-p		
Tuning Port Capacitance -		220		pF		
Output Impedance -		50		Ω		
Modulation:						
Bandwidth	0.3		3	kHz		
Deviation	8		12	kHz/Vp-p		
Distortion			2	%		

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

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