



VCO Product Specification

Model: VCO190-428MT **Rev:** A **Date:** 4/22/2003
Customer: SIRENZA MICRODEVICES, INC.
Operating Temperature Range: (-30 ° to 85 ° C)

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	420	428	435	MHz	X	
Tuning Voltage:						
420 MHz	0.5	1		Vdc	X	
435 MHz		4.5	5	Vdc	X	
Tuning Sensitivity -	4	7	10	MHz/V	X	
Output Power -	-2	1	4	dBm	X	
Output Phase Noise:						
10 kHz		-118	-112	dBc/Hz		
100 kHz		-138	-130	dBc/Hz	X	
Power Supply -	4.75	5	5.25	Volts		
Supply Current -		15	25	mA	X	
Harmonic Suppression:						
2nd Harmonic		-12	-8	dBc	X	
3rd Harmonic		-15	-10	dBc	X	
Spurious (Non-Harmonic) -			-90	dBc		
Frequency Pushing - 4.75-5.25 V		0.2	1	MHz p-p		
Frequency Pulling - 12 dB RL		0.5	2	MHz p-p		
Tuning Port Capacitance -		100		pF		
Output Impedance -		50		Ω		
Modulation:						
Bandwidth	0.3		3	kHz		
Deviation	8		12	kHz/Vp-p		
Input Impedance	10			k Ω		
Distortion			2	%		

Package Information

Package Type:	T	Drawing Number:	60035
Dimensions:	0.5 x 0.5 x 0.223 inches	Drawing Revision:	E

Comments

X Indicates parameter to be tested 100% in production

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