



## VCO Product Specification

**Model:** VCO-107TC **Rev:** B **Date:** 7/23/2002

**Customer:** SIRENZA MICRODEVICES, INC.

**Operating Temperature Range:** ( -55 ° to 100 ° C)

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	500		1000	MHz	X	
Tuning Voltage:						
500 MHz	1	1.8		Vdc	X	
1000 MHz		17.1	20	Vdc	X	
Tuning Sensitivity:						
500 MHz	24	31.3	39	MHz/V	X	
625 MHz	23	30.6	38	MHz/V	X	
750 MHz	34	45.6	57	MHz/V	X	
875 MHz	28	37.2	47	MHz/V	X	
1000 MHz	13	17.8	22	MHz/V	X	
Output Power -	10	13.5	16	dBm	X	
Output Phase Noise:						
10 kHz		-92	-86	dBc/Hz	X	
100 kHz		-117	-111	dBc/Hz	X	
1000 kHz		-140	-134	dBc/Hz	X	
Power Supply -	14.75	15	15.25	Volts	X	
Supply Current -		15.4	18	mA	X	
Harmonic Suppression:						
2nd Harmonic		-13	-10	dBc	X	
3rd Harmonic		-13	-10	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 14.75-15.25V		10	14	MHz p-p		
Frequency Pulling - 20 dB RL		12	20	MHz p-p		
Output Impedance -		50		$\Omega$		
Modulation:						
Bandwidth	15000	20000		kHz		
Input Impedance		0.05		k $\Omega$		

### Package Information

Package Type:	TO-8 (Cir)	Drawing Number:	A8678
Dimensions:	0.504 x 0.504 x 0.27 inches	Drawing Revision:	P

### Comments

**X** Indicates parameter to be tested 100% in production

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