



VCO Product Specification

Model: VCO-109TC **Rev:** - **Date:** 7/18/2002

Customer: SIRENZA MICRODEVICES, INC.

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

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	900		1800	MHz	X	
Tuning Voltage:						
900 MHz	0	1.2		Vdc	X	
1800 MHz		18.5	20	Vdc	X	
Tuning Sensitivity:						
900 MHz	61.2	81.6	102	MHz/V	X	
1125 MHz	44.3	59.1	73.9	MHz/V	X	
1350 MHz	49.1	65.5	81.9	MHz/V	X	
1575 MHz	41.8	55.6	69.6	MHz/V	X	
1800 MHz	17.6	23.5	29.4	MHz/V	X	
Output Power -	10	12.5	16	dBm	X	
Output Phase Noise:						
10 kHz		-90	-84	dBc/Hz	X	
100 kHz		-112	-106	dBc/Hz	X	
1000 kHz		-135	-129	dBc/Hz	X	
Power Supply -	14.75	15	15.25	Volts	X	
Supply Current -		15	18	mA	X	
Harmonic Suppression:						
2nd Harmonic		-15	-10	dBc	X	
3rd Harmonic		-15	-10	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 14.75-15.25 V		4	6	MHz p-p		
Frequency Pulling - 20 dB RL		20	25	MHz p-p		
Output Impedance -		50		Ω		
Modulation:						
Bandwidth	15000	20000		kHz		
Input Impedance		0.05		kΩ		

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

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.