



## VCO Product Specification

**Model:** VCO-110TC      **Rev:** -      **Date:** 7/22/2002  
**Customer:** SIRENZA MICRODEVICES, INC.  
**Operating Temperature Range:** ( -55 ° to 100 ° C)

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	1000		2000	MHz	X	
Tuning Voltage:						
1000 MHz	0	1.2		Vdc	X	
2000 MHz		18.6	20	Vdc	X	
Tuning Sensitivity:						
1000 MHz	67.5	90	112.4	MHz/V	X	
1250 MHz	48.2	64.3	80.4	MHz/V	X	
1500 MHz	54.8	73.1	91.4	MHz/V	X	
1750 MHz	46.3	61.7	77.4	MHz/V	X	
2000 MHz	19.7	26.3	32.9	MHz/V	X	
Output Power -	10	13	16	dBm	X	
Output Phase Noise:						
10 kHz		-88	-82	dBc/Hz	X	
100 kHz		-112	-106	dBc/Hz	X	
1000 kHz		-136	-130	dBc/Hz	X	
Power Supply -	14.75	15	15.25	Volts	X	
Supply Current -		17.5	20	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		22	27	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

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