



VCO Product Specification

Model: VCO-113TC **Rev:** A **Date:** 7/23/2002

Customer: SIRENZA MICRODEVICES, INC.

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

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	40		80	MHz	X	
Tuning Voltage:						
40 MHz	0	1.3		Vdc	X	
80 MHz		18	20	Vdc	X	
Tuning Sensitivity:						
40 MHz	1.2	1.6	2	MHz/V	X	
50 MHz	2.3	3.1	3.9	MHz/V	X	
60 MHz	2.5	3.4	4.2	MHz/V	X	
70 MHz	1.8	2.4	3	MHz/V	X	
80 MHz	0.8	1.3	1.6	MHz/V	X	
Output Power -	10	13	16	dBm	X	
Output Phase Noise:						
10 kHz		-112	-106	dBc/Hz	X	
100 kHz		-133	-127	dBc/Hz	X	
1000 kHz		-155	-149	dBc/Hz	X	
Power Supply -	14.75	15	15.25	Volts	X	
Supply Current -		13	15	mA	X	
Harmonic Suppression:						
2nd Harmonic		-12	-10	dBc	X	
3rd Harmonic		-12	-10	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 14.75-15.25 V		0.2	0.4	MHz p-p		
Frequency Pulling - 12 dB RL		0.5	2	MHz p-p		
Output Impedance -		50		Ω		
Modulation:						
Bandwidth	100	140		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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