



VCO Product Specification

Model: VCO-305TC **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 -	200		400	MHz	X	
Tuning Voltage:						
200 MHz	0	1.4		Vdc	X	
400 MHz		18	20	Vdc	X	
Tuning Sensitivity:						
200 MHz	6.9	9.2	11.4	MHz/V	X	
250 MHz	13	17.3	21.6	MHz/V	X	
300 MHz	14.6	19.5	24.3	MHz/V	X	
350 MHz	9.6	12.8	16	MHz/V	X	
400 MHz	2.5	5.7	7.2	MHz/V	X	
Output Power -	9	11	16	dBm	X	
Output Phase Noise:						
10 kHz		-102	-96	dBc/Hz	X	
100 kHz		-125	-119	dBc/Hz	X	
1000 kHz		-150	-144	dBc/Hz	X	
Power Supply -	4.75	5	5.25	Volts	X	
Supply Current -		11	15	mA	X	
Harmonic Suppression:						
2nd Harmonic		-22	-19	dBc	X	
3rd Harmonic		-18	-14	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 4.75-5.25 V		0.4	1.25	MHz p-p		
Frequency Pulling - 12 dB RL		5	10	MHz p-p		
Output Impedance -		50		Ω		
Modulation:						
Bandwidth	7000	10000		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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