



VCO Product Specification

Model: VCO-111TC **Rev:** B **Date:** 4/13/2005

Customer: SIRENZA MICRODEVICES, INC.

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

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	1500		2725	MHz	X	
Tuning Voltage:						
1500 MHz	0	0.8		Vdc	X	
2725 MHz		18.5	20	Vdc	X	
Tuning Sensitivity:						
1500 MHz	107	142.7	178.3	MHz/V	X	
1806.25 MHz	57.2	76.2	95.3	MHz/V	X	
2112.5 MHz	69.4	92.5	115.7	MHz/V	X	
2418.75 MHz	54.6	72.9	91.1	MHz/V	X	
2725 MHz	27.6	36.8	46	MHz/V	X	
Output Power -	10	12	16	dBm	X	
Output Phase Noise:						
10 kHz		-78	-70	dBc/Hz	X	
100 kHz		-100	-92	dBc/Hz	X	
1000 kHz		-122	-116	dBc/Hz	X	
Power Supply -	14.75	15	15.25	Volts	X	
Supply Current -		19	21	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		5	10	MHz p-p		
Frequency Pulling - 22 dB RL		25	35	MHz p-p		
Output Impedance -		50		Ω		
Modulation:						
Bandwidth	10000	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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