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VCO Product Specification

Model: VCO-116TC **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 -	150		300	MHz	X	
Tuning Voltage:						
150 MHz	0	1.5		Vdc	X	
300 MHz		17	20	Vdc	X	
Tuning Sensitivity:						
150 MHz	6.4	8.5	10.6	MHz/V	X	
187.5 MHz	8	10.6	13.3	MHz/V	X	
225 MHz	8.3	11	13.8	MHz/V	X	
262.5 MHz	7.4	9.8	13.3	MHz/V	X	
300 MHz	3	5	7.3	MHz/V	X	
Output Power -	10	12.5	16	dBm	X	
Output Phase Noise:						
10 kHz		-100	-94	dBc/Hz	X	
100 kHz		-120	-114	dBc/Hz	X	
1000 kHz		-140	-134	dBc/Hz	X	
Power Supply -	14.75	15	15.25	Volts	X	
Supply Current -		12.5	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		0.7	1.5	MHz p-p		
Frequency Pulling - 12 dB RL		4	8	MHz p-p		
Output Impedance -		50		Ω		
Modulation:						
Bandwidth	250	350		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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