



VCO Product Specification

Model: VCO-117TC **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 -	300		600	MHz	X	
Tuning Voltage:						
300 MHz	0	1.4		Vdc	X	
600 MHz		18	20	Vdc	X	
Tuning Sensitivity:						
300 MHz	14.9	19.8	24.8	MHz/V	X	
375 MHz	15.1	20.1	25.1	MHz/V	X	
450 MHz	18.2	24.2	30.3	MHz/V	X	
525 MHz	13.8	18.4	23	MHz/V	X	
600 MHz	7.8	10.1	12.6	MHz/V	X	
Output Power -	10	13	16	dBm	X	
Output Phase Noise:						
10 kHz		-100	-94	dBc/Hz	X	
100 kHz		-122	-116	dBc/Hz	X	
1000 kHz		-145	-139	dBc/Hz	X	
Power Supply -	14.75	15	15.25	Volts	X	
Supply Current -		14.5	16	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		1	4	MHz p-p		
Frequency Pulling - 12 dB RL		10	12	MHz p-p		
Output Impedance -		50		Ω		
Modulation:						
Bandwidth	5000	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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