



VCO Product Specification

Model: VCO-118TC **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 -	250		500	MHz	X	
Tuning Voltage:						
250 MHz	0	1.3		Vdc	X	
500 MHz		17.6	20	Vdc	X	
Tuning Sensitivity:						
250 MHz	11.9	15.8	19.8	MHz/V	X	
312.5 MHz	12.6	16.8	21	MHz/V	X	
375 MHz	14.9	19.8	24.8	MHz/V	X	
437.5 MHz	13.1	17.4	21.8	MHz/V	X	
500 MHz	6.2	8.3	10.8	MHz/V	X	
Output Power -	10	13	16	dBm	X	
Output Phase Noise:						
10 kHz		-100	-94	dBc/Hz	X	
100 kHz		-123	-117	dBc/Hz	X	
1000 kHz		-148	-142	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 to 15.25 V		1	3	MHz p-p		
Frequency Pulling - 12 dB		10	13	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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