



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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VCO-108/108TC

Nominal Operating Parameters



Parameter	Specification			Unit	Condition
	Min	Typ	Max		
General Performance					
Frequency Range	800		1600	MHz	100% Production Tested
Tuning Voltage :					
800MHz	0	1.2		Vdc	100% Production Tested
1600MHz		17.6	20	Vdc	100% Production Tested
Tuning Sensitivity:					
800MHz	46.5	62	77.5	MHz/V	100% Production Tested
1000MHz	41	55	69	MHz/V	100% Production Tested
1200MHz	58	77	96	MHz/V	100% Production Tested
1400MHz	37.5	50	62.5	MHz/V	100% Production Tested
1600MHz	14	21	28	MHz/V	100% Production Tested
Output Power	10	13	16	dBm	100% Production Tested
Output Phase Noise:					
10kHz		-92	-81	dBc/Hz	100% Production Tested
100kHz		-115	-104	dBc/Hz	100% Production Tested
1000kHz		-135	-124	dBc/Hz	100% Production Tested
Power Supply	14.75	15	15.25	V	100% Production Tested
Supply Current		15	18	mA	100% Production Tested
Harmonic Suppression:					
2nd Harmonic		-12	-10	dBc	100% Production Tested
3rd Harmonic		-12	-10	dBc	100% Production Tested
Spurious (Non-Harmonic)			-80	dBc	
Frequency Pushing – 14.75V to 15.25V		4	20	MHz p-p	
Frequency Pulling – 20 dBRL		20	27	MHz p-p	
Output Impedance		50		Ω	
Modulation:					
Bandwidth	12000	15000		kHz	
Input Impedance		0.05		kΩ	

Package: TO-8 (Cir), 0.504 x 0.504 x 0.27 inches

VCO-108 Temperature Range: 0°C to 70°C

VCO-108TC Temperature Range: -55°C to 100°C

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