



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-117/117TC

## Nominal Operating Parameters



Parameter	Specification			Unit	Condition
	Min	Typ	Max		
<b>General Performance</b>					
Frequency Range	300		600	MHz	100% Production Tested
Tuning Voltage :					
300MHz	0	1.4		Vdc	100% Production Tested
600MHz		18	20	Vdc	
Tuning Sensitivity:					
300MHz	14.9	19.8	24.8	MHz/V	100% Production Tested
375MHz	15.1	20.1	25.1	MHz/V	
450MHz	18.2	24.2	30.3	MHz/V	
525MHz	13.8	18.4	23	MHz/V	
600MHz	7.8	10.1	12.6	MHz/V	
Output Power	10	13	16	dBm	
Output Phase Noise:					
10kHz		-100	-94	dBc/Hz	100% Production Tested
100kHz		-122	-116	dBc/Hz	
1000kHz		-145	-139	dBc/Hz	
Power Supply	14.75	15	15.25	V	
Supply Current		14.5	16	mA	
Harmonic Suppression:					
2nd Harmonic		-12	-10	dBc	100% Production Tested
3rd Harmonic		-12	-10	dBc	
Spurious (Non-Harmonic)			-80	dBc	
Frequency Pushing – 14.75V to 15.25V		1	4	MHz p-p	
Frequency Pulling – 12dBRL		10	12	MHz p-p	
Output Impedance		50		$\Omega$	
Modulation:					
Bandwidth	5000	10000		kHz	
Input Impedance		0.05		k $\Omega$	

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

**VCO-117 Temperature Range:** 0°C to 70°C

**VCO-117TC Temperature Range:** -55°C to 100°C

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DS140312

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