



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-111/111TC

## Nominal Operating Parameters



Parameter	Specification			Unit	Condition
	Min	Typ	Max		
<b>General Performance</b>					
Frequency Range	1500		2725	MHz	100% Production Tested
Tuning Voltage :					
1500MHz	0	0.8		Vdc	100% Production Tested
2725MHz		18.5	20	Vdc	100% Production Tested
Tuning Sensitivity:					
1500MHz	107	142.7	178.3	MHz/V	100% Production Tested
1806.25MHz	57.2	76.2	95.3	MHz/V	100% Production Tested
2112.5MHz	69.4	92.5	115.7	MHz/V	100% Production Tested
2418.75MHz	54.6	72.9	91.1	MHz/V	100% Production Tested
2725MHz	27.6	36.8	46	MHz/V	100% Production Tested
Output Power	10	12	16	dBm	100% Production Tested
Output Phase Noise:					
10kHz		-78	-70	dBc/Hz	100% Production Tested
100kHz		-100	-92	dBc/Hz	100% Production Tested
1000kHz		-122	-116	dBc/Hz	100% Production Tested
Power Supply	14.75	15	15.25	V	100% Production Tested
Supply Current		19	21	mA	100% Production Tested
Harmonic Suppression:					
2nd Harmonic		-15	-10	dBc	100% Production Tested
3rd Harmonic		-15	-10	dBc	100% Production Tested
Spurious (Non-Harmonic)			-80	dBc	
Frequency Pushing – 14.75V to 15.25V		5	10	MHz p-p	
Frequency Pulling – 22dBRL		25	35	MHz p-p	
Output Impedance		50		$\Omega$	
Modulation:					
Bandwidth	10000	20000		kHz	
Input Impedance		0.05		k $\Omega$	

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

**VCO-111 Temperature Range:** 0°C to 70°C

**VCO-111TC Temperature Range:** -55°C to 100°C

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