



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!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

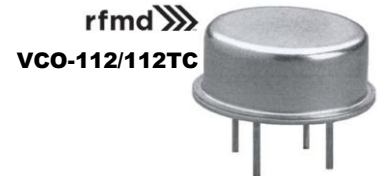
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# VCO-112/112TC

## Nominal Operating Parameters



Parameter	Specification			Unit	Condition
	Min	Typ	Max		
<b>General Performance</b>					
Frequency Range	2000		3200	MHz	100% Production Tested
Tuning Voltage :					
200MHz	0	1.5		Vdc	100% Production Tested
3200MHz		18	20	Vdc	
Tuning Sensitivity:					
2000MHz	44	58	73	MHz/V	100% Production Tested
2300MHz	55	73	92	MHz/V	
2600MHz	106	142	178	MHz/V	
2900MHz	65	87	109	MHz/V	
3200MHz	35	47	59	MHz/V	
Output Power	10	12.5	16	dBm	
Output Phase Noise:					
10kHz		-85	-79	dBc/Hz	100% Production Tested
100kHz		-105	-99	dBc/Hz	
1000kHz		-128	-122	dBc/Hz	
Power Supply	14.75	15	15.25	V	
Supply Current		19	22	mA	
Harmonic Suppression:					
2nd Harmonic		-15	-10	dBc	100% Production Tested
3rd Harmonic		-18	-10	dBc	
Spurious (Non-Harmonic)			-80	dBc	
Frequency Pushing – 14.75V to 15.25V		1	2.5	MHz p-p	
Frequency Pulling – 20dBRL		40	50	MHz p-p	
Output Impedance		50		$\Omega$	
Modulation:					
Bandwidth	20000	35000		kHz	
Input Impedance		0.05		k $\Omega$	

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

**VCO-112 Temperature Range:** 0°C to 70°C

**VCO-112TC Temperature Range:** -55°C to 100°C

RF Micro Devices Inc. 7628 Thorndike Road, Greensboro, NC 27409-9421  
 For sales or technical support, contact RFMD at +1.336.678.5570 or [customerservice@rfmd.com](mailto:customerservice@rfmd.com).

DS140312

RF MICRO DEVICES® and RFMD® are trademarks of RFMD, LLC. BLUETOOTH is a trademark owned by Bluetooth SIG, Inc., U.S.A. and licensed for use by RFMD. All other trade names, trademarks, and registered trademarks are the property of their respective owners. ©2013, RF Micro Devices, Inc.