

# 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

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