

# VCO-108/108TC



## Nominal Operating Parameters

Parameter	Specification			Unit	Condition
	Min	Typ	Max		
<b>General Performance</b>					
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		$\Omega$	
Modulation:					
Bandwidth	12000	15000		kHz	
Input Impedance		0.05		k $\Omega$	

**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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