

VCO-104/104TC

Nominal Operating Parameters



Parameter	Specification			Unit	Condition
	Min	Typ	Max		
General Performance					
Frequency Range	100		200	MHz	100% Production Tested
Tuning Voltage :					
100MHz	0	1.4		Vdc	100% Production Tested
200MHz		16.8	20	Vdc	100% Production Tested
Tuning Sensitivity:					
100MHz	4.8	6.4	8	MHz/V	100% Production Tested
125MHz	5.3	7.1	8.9	MHz/V	100% Production Tested
150MHz	5.6	7.5	9.4	MHz/V	100% Production Tested
175MHz	5.7	7.6	9.5	MHz/V	100% Production Tested
200MHz	2.4	3.2	4.4	MHz/V	100% Production Tested
Output Power	10	12.5	16	dBm	100% Production Tested
Output Phase Noise:					
10kHz		-99	-93	dBc/Hz	100% Production Tested
100kHz		-122	-116	dBc/Hz	100% Production Tested
1000kHz		-144	-138	dBc/Hz	100% Production Tested
Power Supply	14.75	15	15.25	V	100% Production Tested
Supply Current		12.5	15	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		0.3	1	MHz p-p	
Frequency Pulling – 12 dBRL		3	6	MHz p-p	
Output Impedance		50		Ω	
Modulation:					
Bandwidth	250	350		kHz	
Input Impedance		0.05		k Ω	

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

VCO-104 Temperature Range: 0°C to 70°C

VCO-104TC Temperature Range: -55°C to 100°C

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