

VCO-110/110TC

Nominal Operating Parameters



Parameter	Specification			Unit	Condition
	Min	Typ	Max		
General Performance					
Frequency Range	1000		2000	MHz	100% Production Tested
Tuning Voltage :					
1000MHz	0	1.2		Vdc	100% Production Tested
2000MHz		18.6	20	Vdc	100% Production Tested
Tuning Sensitivity:					
1000MHz	67.5	90	112.4	MHz/V	100% Production Tested
1250MHz	48.2	64.3	80.4	MHz/V	100% Production Tested
1500MHz	54.8	73.1	91.4	MHz/V	100% Production Tested
1750MHz	46.3	61.7	77.4	MHz/V	100% Production Tested
2000MHz	19.7	26.3	32.9	MHz/V	100% Production Tested
Output Power	10	13	16	dBm	100% Production Tested
Output Phase Noise:					
10kHz		-88	-82	dBc/Hz	100% Production Tested
100kHz		-112	-106	dBc/Hz	100% Production Tested
1000kHz		-136	-130	dBc/Hz	100% Production Tested
Power Supply	14.75	15	15.25	V	100% Production Tested
Supply Current		17.5	20	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		4	6	MHz p-p	
Frequency Pulling – 20dBRL		22	27	MHz p-p	
Output Impedance		50		Ω	
Modulation:					
Bandwidth	15000	20000		kHz	
Input Impedance		0.05		k Ω	

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

VCO-110 Temperature Range: 0°C to 70°C

VCO-110TC Temperature Range: -55°C to 100°C

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