



VCO Product Specification

Model: VCO-550 **Rev:** C **Date:** 6/1/2004

Customer:

Operating Temperature Range: (0 ° to 70 ° C)

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	6500		8000	MHz	X	
Tuning Voltage:						
6500 MHz	0	1		Vdc	X	
8000 MHz		13.5	16	Vdc	X	
Tuning Sensitivity:						
6500 MHz	125	145		MHz/V	X	Linearity 2.25:1 Typ.
6875 MHz	85	105		MHz/V	X	
7250 MHz	130	153		MHz/V	X	
7625 MHz	130	155		MHz/V	X	
8000 MHz	55	78		MHz/V	X	
Output Power -	-4.5	-1.5	1.5	dBm	X	
Output Phase Noise:						
50 kHz		-87	-81	dBc/Hz		
100 kHz		-94	-88	dBc/Hz	X	
1000 kHz		-115	-110	dBc/Hz	X	
Power Supply -	4.9	5	5.1	Volts		
Supply Current -		18.5	22	mA	X	
Harmonic Suppression:						
2nd Harmonic		-20	-10	dBc	X	
3rd Harmonic		-25	-10	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 4.9 to 5.1 Volts		4	7	MHz p-p		
Frequency Pulling - VSWR=1.44:1		55	65	MHz p-p		
Tuning Port Capacitance -		22		pF		
Output Impedance -		50		Ω		

Package Information

Package Type:	SMT-2 (0.45 x 0.45 x 0.17 inches)	Drawing Number:	A21959
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Comments

X Indicates parameter to be tested 100% in production

Frequency Drift (100 MHz typical) 135 MHz max.

Also Available in TO-8 package.

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