



VCO Product Specification

Model: VCO-570TC **Rev:** B **Date:** 2/9/2007

Customer:

Operating Temperature Range: (-55 ° to 100 ° C)

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	8000		10000	MHz	X	
Tuning Voltage:						
8000 MHz	0	1		Vdc	X	
10000 MHz		15.5	20	Vdc	X	
Tuning Sensitivity:						
8000MHz	90	120		MHz/V	X	Linearity = 1.6:1 typical
8500 MHz	105	135		MHz/V	X	
9000 MHz	125	155		MHz/V	X	
9500 MHz	120	150		MHz/V	X	
10000 MHz	40	110		MHz/V	X	
Output Power -	-6	-4	-2	dBm	X	Power Flatness = 1.0 dB typical
Output Phase Noise:						
50 kHz		-85	-79	dBc/Hz	X	
100 kHz		-93	-88	dBc/Hz	X	
1000 kHz		-115	-110	dBc/Hz	X	
Power Supply -	4.9	5	5.1	Volts		
Supply Current -		19.5	23	mA	X	
Harmonic Suppression:						
2nd Harmonic		-15	-10	dBc	X	
3rd Harmonic		-35	-10	dBc		
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 4.75-5.25 V		4	7	MHz p-p		
Frequency Pulling - 1.38 VSWR		30	50	MHz p-p		
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 0.8 MHz/Deg C typ. 1.2 MHz/Deg. C max.

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