



VCO Product Specification

Model: VCO-1500TC **Rev:** A **Date:** 4/5/2007

Customer:

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

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	1000		2000	MHz	X	
Tuning Voltage:						
1000 MHz	0	1.6		Vdc	X	
2000 MHz		12.6	15	Vdc	X	
Tuning Sensitivity:						
1000 MHz	60	70	80	MHz/V	X	Linearity = 2.0:1 typ 2.5:1 max
1250 MHz	63	74	85	MHz/V	X	
1500 MHz	125	138	150	MHz/V	X	
1750 MHz	100	113	130	MHz/V	X	
2000 MHz	60	74	85	MHz/V	X	
Output Power -	3	5.75	8.5	dBm	X	Flatness = 1.5 dB typ
Output Phase Noise:						
10 kHz		-90	-84	dBc/Hz	X	
100 kHz		-115	-110	dBc/Hz	X	
1000 kHz		-135	-130	dBc/Hz	X	
Power Supply -	4.9	5	5.1	Volts		
Supply Current -		26	30	mA	X	
Harmonic Suppression:						
2nd Harmonic		-13	-9	dBc	X	
3rd Harmonic		-15	-10	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 4.75 to 5.25 V		2	4.5	MHz p-p		
Frequency Pulling - 12 dBRL		15	20	MHz p-p		
Tuning Port Capacitance -		100		pF		
Output Impedance -		50		Ω		

Package Information

Package Type:	TO-8 (Cir) (0.504 x 0.504 x 0.27 inches)	Drawing Number:	A8678
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Comments

X Indicates parameter to be tested 100% in production

Also Available in SMT-2 Package.

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