



VCO Product Specification

Model: VCO790-1550T **Rev:** A **Date:** 8/12/2003

Customer: VARI-L COMPANY

Operating Temperature Range: (-40 ° to 85 ° C)

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	950		2150	MHz	X	
Tuning Voltage:						
950 MHz	0.5	1.4		Vdc	X	***
2150 MHz		19	22	Vdc	X	
Tuning Sensitivity:						
950 MHz	60	80	100	MHz/V	X	
1250 MHz	50	70	90	MHz/V	X	
1550 MHz	55	75	95	MHz/V	X	
1850 MHz	45	65	85	MHz/V	X	
2150 MHz	35	55	75	MHz/V	X	
Output Power -	3	6	9	dBm	X	
Output Phase Noise:						
1 kHz		-70	-65	dBc/Hz		
10 kHz		-98	-93	dBc/Hz		
100 kHz		-118	-113	dBc/Hz	X	
1000 kHz		-138	-133	dBc/Hz		
Power Supply -	4.75	5	5.25	Volts	X	
Supply Current -		25	30	mA	X	
Harmonic Suppression:						
2nd Harmonic		-8	-4	dBc	X	
3rd Harmonic		-18	-10	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 4.75 - 5.25 V		2.5	5	MHz p-p	X	
Frequency Pulling - into a 12 dB RL		10	15	MHz p-p	X	
Tuning Port Capacitance -		100		pF		
Output Impedance -		50		Ω		

Package Information

Package Type:	T	Drawing Number:	60035
Dimensions:	0.5 x 0.5 x 0.156 inches	Drawing Revision:	E

Comments

X Indicates parameter to be tested 100% in production

*** Tuning Curve is monotonic from $V_t=0$ V dc to V_{tmax} and is guaranteed to oscillate at $V_t=0$ Vdc

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