



## VCO Product Specification

**Model:** VCO793-750T      **Rev:** A      **Date:** 2/24/2004

**Customer:** SIRENZA MICRODEVICES, INC.

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

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	500		1000	MHz	X	
Tuning Voltage:						
500 MHz	0	2.2		Vdc	X	
1000 MHz		18	20	Vdc	X	
Tuning Sensitivity:						
500 MHz	33	38	43	MHz/V	X	
625 MHz	33	38	43	MHz/V	X	
750 MHz	35	40	45	MHz/V	X	
875 MHz	30	39	44	MHz/V	X	
1000 MHz	24	29	34	MHz/V	X	
Output Power -	1	6	10	dBm	X	
Output Phase Noise:						
1 kHz		-79	-74	dBc/Hz		
10 kHz		-104	-99	dBc/Hz		
100 kHz		-124	-119	dBc/Hz	X	
1000 kHz		-144	-139	dBc/Hz		
Power Supply -	11.5	12	12.5	Volts	X	
Supply Current -		25	30	mA	X	
Harmonic Suppression:						
2nd Harmonic		-6		dBc	X	
3rd Harmonic		-18		dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 11.5-12.5 V		1.5	3	MHz p-p		
Frequency Pulling - 12 dB RL		2	5	MHz p-p		
Tuning Port Capacitance -		220		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:	C

### Comments

**X** Indicates parameter to be tested 100% in production

\*\*\* Tuning curve is monotonic from  $V_t=0$  Vdc to  $V_{max}$  and is guaranteed to oscillate to  $V_t=0$  Vdc

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