

## VCO Product Specification

**Model:** VCO190-818T      **Rev:** A      **Date:** 4/22/2003  
**Customer:** VARI-L COMPANY  
**Operating Temperature Range:** ( -10 ° to 85 ° C)

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	805	818	830	MHz	X	
Tuning Voltage:						
805 MHz	1	1.15		Vdc	X	
830 MHz		3.2	3.9	Vdc	X	
Tuning Sensitivity -	14	17	20	MHz/V	X	
Output Power -	-3	0	3	dBm	X	
Output Phase Noise:						
10 kHz		-114	-108	dBc/Hz		
100 kHz		-135	-129	dBc/Hz	X	
Power Supply -	4.9	5	5.1	Volts		
Supply Current -		22	25	mA	X	
Harmonic Suppression:						
2nd Harmonic		-15	-10	dBc	X	
3rd Harmonic		-35	-15	dBc	X	
Spurious (Non-Harmonic) -			-100	dBc		
Frequency Pushing - 4.9-5.1 V		0.1	1	MHz p-p		
Frequency Pulling - 12 dB RL		0.2	1	MHz p-p		
Tuning Port Capacitance -		47	70	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