

## VCO Product Specification

**Model:** VCO190-1735T      **Rev:** A      **Date:** 4/21/2003  
**Customer:** VARI-L COMPANY  
**Operating Temperature Range:** ( -10 ° to 60 ° C)

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	1650	1735	1820	MHz	X	
Tuning Voltage:						
1650 MHz	1	1.3		Vdc	X	
1820 MHz		3.7	4	Vdc	X	
Tuning Sensitivity -	55	72	90	MHz/V	X	
Output Power -	0	3	6	dBm	X	
Output Phase Noise:						
10 kHz		-97	-91	dBc/Hz		
100 kHz		-119	-111	dBc/Hz	X	
Power Supply -	4.75	5	5.25	Volts		
Supply Current -		12	15	mA	X	
Harmonic Suppression:						
2nd Harmonic		-15	-10	dBc	X	
3rd Harmonic		-20	-15	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 4.75-5.25 V		1	2	MHz p-p		
Frequency Pulling - 12 dB RL		3	5	MHz p-p		
Tuning Port Capacitance -		47		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