

## VCO Product Specification

**Model:** VCO190-1198T      **Rev:** A      **Date:** 4/21/2003  
**Customer:** VARI-L COMPANY  
**Operating Temperature Range:** ( -10 ° to 85 ° C)

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	1178	1198	1218	MHz	X	
Tuning Voltage:						
1178 MHz	1	1.4		Vdc	X	
1218 MHz		3.6	4	Vdc	X	
Tuning Sensitivity -	14	18	24	MHz/V	X	
Output Power -	0	3	6	dBm	X	
Output Phase Noise:						
10 kHz		-111	-105	dBc/Hz		
100 kHz		-131	-125	dBc/Hz	X	
Power Supply -	4.75	5	5.25	Volts		
Supply Current -		24	30	mA	X	
Harmonic Suppression:						
2nd Harmonic		-22	-15	dBc	X	
3rd Harmonic		-40	-20	dBc	X	
Spurious (Non-Harmonic) -			-100	dBc		
Frequency Pushing - 4.75 to 5.25 V		0.4	1	MHz p-p		
Frequency Pulling - 12 dB RL		0.1	1	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