



## VCO Product Specification

**Model:** VCO-109      **Rev:** -      **Date:** 7/18/2002

**Customer:** VARI-L COMPANY

**Operating Temperature Range:** ( 0 ° to 70 ° C)

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	900		1800	MHz	X	
Tuning Voltage:						
900 MHz	0	1.2		Vdc	X	
1800 MHz		18.5	20	Vdc	X	
Tuning Sensitivity:						
900 MHz	61.2	81.6	102	MHz/V	X	
1125 MHz	44.3	59.1	73.9	MHz/V	X	
1350 MHz	49.1	65.5	81.9	MHz/V	X	
1575 MHz	41.8	55.6	69.6	MHz/V	X	
1800 MHz	17.6	23.5	29.4	MHz/V	X	
Output Power -	10	12.5	16	dBm	X	
Output Phase Noise:						
10 kHz		-90	-84	dBc/Hz	X	
100 kHz		-112	-106	dBc/Hz	X	
1000 kHz		-135	-129	dBc/Hz	X	
Power Supply -	14.75	15	15.25	Volts	X	
Supply Current -		15	18	mA	X	
Harmonic Suppression:						
2nd Harmonic		-15	-10	dBc	X	
3rd Harmonic		-15	-10	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 14.75-15.25 V		4	6	MHz p-p		
Frequency Pulling - 20 dB RL		20	25	MHz p-p		
Output Impedance -		50		Ω		
Modulation:						
Bandwidth	15000	20000		kHz		
Input Impedance		0.05		kΩ		

### Package Information

Package Type:	TO-8 (Cir)	Drawing Number:	A8678
Dimensions:	0.504 x 0.504 x 0.27 inches	Drawing Revision:	P

### Comments

X Indicates parameter to be tested 100% in production

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