



## VCO Product Specification

**Model:** VCO-103      **Rev:** -      **Date:** 7/22/2002

**Customer:** VARI-L COMPANY

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

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	50		100	MHz	X	
Tuning Voltage:						
50 MHz	0	1.4		Vdc	X	
100 MHz		16.4	20	Vdc	X	
Tuning Sensitivity:						
50 MHz	1.8	2.4	3	MHz/V	X	
62.5 MHz	2.7	3.6	4.5	MHz/V	X	
75 MHz	2.9	3.8	4.8	MHz/V	X	
87.5 MHz	2.8	3.7	4.7	MHz/V	X	
100 MHz	1.6	2.1	2.7	MHz/V	X	
Output Power -	10	13	16	dBm	X	
Output Phase Noise:						
10 kHz		-108	-102	dBc/Hz	X	
100 kHz		-128	-122	dBc/Hz	X	
1000 kHz		-148	-142	dBc/Hz	X	
Power Supply -	14.75	15	15.25	Volts	X	
Supply Current -		12.5	15	mA	X	
Harmonic Suppression:						
2nd Harmonic		-12	-10	dBc	X	
3rd Harmonic		-12	-10	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 14.75-15.25		0.05	0.2	MHz p-p		
Frequency Pulling - 12 dB RL		1	3	MHz p-p		
Output Impedance -		50		Ω		
Modulation:						
Bandwidth	100	175		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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