



## VCO Product Specification

**Model:** VCO-104      **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 -	100		200	MHz	X	
Tuning Voltage:						
100 MHz	0	1.4		Vdc	X	
200 MHz		16.8	20	Vdc	X	
Tuning Sensitivity:						
100 MHz	4.8	6.4	8	MHz/V	X	
125 MHz	5.3	7.1	8.9	MHz/V	X	
150 MHz	5.6	7.5	9.4	MHz/V	X	
175 MHz	5.7	7.6	9.5	MHz/V	X	
200 MHz	2.4	3.2	4.4	MHz/V	X	
Output Power -	10	12.5	16	dBm	X	
Output Phase Noise:						
10 kHz		-99	-93	dBc/Hz	X	
100 kHz		-122	-116	dBc/Hz	X	
1000 kHz		-144	-138	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 V		0.3	1	MHz p-p		
Frequency Pulling - 12 dB RL		3	6	MHz p-p		
Output Impedance -		50		Ω		
Modulation:						
Bandwidth	250	350		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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