



## VCO Product Specification

**Model:** VCO-121      **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 -	700		1400	MHz	X	
Tuning Voltage:						
700 MHz	0	1.4		Vdc	X	
1400 MHz		17	20	Vdc	X	
Tuning Sensitivity:						
700 MHz	30.5	40.7	50.9	MHz/V	X	
875 MHz	33.2	44.3	55.4	MHz/V	X	
1050 MHz	54.7	72.9	91.1	MHz/V	X	
1225 MHz	37.8	50.4	63	MHz/V	X	
1400 MHz	18.8	25	31.3	MHz/V	X	
Output Power -	10	13	16	dBm	X	
Output Phase Noise:						
10 kHz		-88	-82	dBc/Hz	X	
100 kHz		-115	-109	dBc/Hz	X	
1000 kHz		-138	-132	dBc/Hz	X	
Power Supply -	14.75	15	15.25	Volts	X	
Supply Current -		15	17.5	mA	X	
Harmonic Suppression:						
2nd Harmonic		-15	-10	dBc	X	
3rd Harmonic		-12	-10	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 14.75-15.25 V		0.6	1	MHz p-p		
Frequency Pulling - 20 dB RL		15	20	MHz p-p		
Output Impedance -		50		Ω		
Modulation:						
Bandwidth	10000	15000		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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