

## VCO Product Specification

**Model:** VCO-216TC **Rev:** - **Date:** 7/22/2002

**Customer:** VARI-L COMPANY

**Operating Temperature Range:** ( -55 ° to 100 ° C)

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	150		300	MHz	X	
Tuning Voltage:						
150 MHz	0	1.4		Vdc	X	
300 MHz		17	20	Vdc	X	
Tuning Sensitivity:						
150 MHz	6.5	8.7	10.8	MHz/V	X	
187.5 MHz	7.6	10.2	12.7	MHz/V	X	
225 MHz	10.2	13.6	17	MHz/V	X	
262.5 MHz	7.5	10.1	12.6	MHz/V	X	
300 MHz	4	5.3	6.6	MHz/V	X	
Output Power -	10	13	16	dBm	X	
Output Phase Noise:						
10 kHz		-110	-104	dBc/Hz	X	
100 kHz		-130	-124	dBc/Hz	X	
1000 kHz		-155	-149	dBc/Hz	X	
Power Supply -	14.75	15	15.25	Volts	X	
Supply Current -		13.7	16	mA	X	
Harmonic Suppression:						
2nd Harmonic		-22	-18	dBc	X	
3rd Harmonic		-18	-14	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 14-16 V		0.25	0.4	MHz p-p		
Frequency Pulling - 12 dB RL		4	8	MHz p-p		
Output Impedance -		50		$\Omega$		
Modulation:						
Bandwidth	5000	7000		kHz		
Input Impedance		0.05		k $\Omega$		

### 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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