

## VCO Product Specification

**Model:** VCO-106TC **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 -	400		800	MHz	X	
Tuning Voltage:						
400 MHz	0	1.1		Vdc	X	
800 MHz		17.6	20	Vdc	X	
Tuning Sensitivity:						
400 MHz	32.6	43.4	54.3	MHz/V	X	
500 MHz	25.8	34.3	42.9	MHz/V	X	
600 MHz	21.4	28.5	35.6	MHz/V	X	
700 MHz	16.5	21.9	27.4	MHz/V	X	
800 MHz	7.2	9.6	12	MHz/V	X	
Output Power -	10	12.5	16	dBm	X	
Output Phase Noise:						
10 kHz		-95	-89	dBc/Hz	X	
100 kHz		-120	-114	dBc/Hz	X	
1000 kHz		-143	-137	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		-12	-10	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 14.75-15.25 V		0.5	1	MHz p-p		
Frequency Pulling - 12 dB RL		22	28	MHz p-p		
Output Impedance -		50		$\Omega$		
Modulation:						
Bandwidth	10000	15000		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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