



VCO Product Specification

Model: VCO-105TC **Rev:** A **Date:** 8/19/2002

Customer: VARI-L COMPANY

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

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	200		400	MHz	X	
Tuning Voltage:						
200 MHz	0	1.7		Vdc	X	
400 MHz		17	20	Vdc	X	
Tuning Sensitivity:						
200 MHz	8.5	12	15	MHz/V	X	
250 MHz	13	17.5	22	MHz/V	X	
300 MHz	12	17	21	MHz/V	X	
350 MHz	9	12	16	MHz/V	X	
400 MHz	4	6.6	10	MHz/V	X	
Output Power -	10	12.5	16	dBm	X	
Output Phase Noise:						
10 kHz		-97	-91	dBc/Hz	X	
100 kHz		-120	-114	dBc/Hz	X	
1000 kHz		-135	-129	dBc/Hz	X	
Power Supply -	14.75	15	15.25	Volts	X	
Supply Current -		14.5	16	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		0.5	2	MHz p-p		
Frequency Pulling - 12 dB RL		5	10	MHz p-p		(all phases)
Output Impedance -		50		Ω		
Modulation:						
Bandwidth	180	250		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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