



VCO Product Specification

Model: VCO-108 **Rev:** C **Date:** 8/19/2002

Customer: VARI-L COMPANY

Operating Temperature Range: (0 ° to 70 ° C)

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	800		1600	MHz	X	
Tuning Voltage:						
800 MHz	0	1.2		Vdc	X	
1600 MHz		17.6	20	Vdc	X	
Tuning Sensitivity:						
800 MHz	46.5	62	77.5	MHz/V	X	
1000 MHz	41	55	69	MHz/V	X	
1200 MHz	58	77	96	MHz/V	X	
1400 MHz	37.5	50	62.5	MHz/V	X	
1600 MHz	14	21	28	MHz/V	X	
Output Power -	10	13	16	dBm	X	
Output Phase Noise:						
10 kHz		-92	-81	dBc/Hz	X	
100 kHz		-115	-104	dBc/Hz	X	
1000 kHz		-135	-124	dBc/Hz	X	
Power Supply -	14.75	15	15.25	Volts	X	
Supply Current -		15	18	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		4	20	MHz p-p		
Frequency Pulling - 20 dB RL		20	27	MHz p-p		
Output Impedance -		50		Ω		
Modulation:						
Bandwidth	12000	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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		Wide-Band Voltage Controlled Oscillators	Couplers	
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