



VCO Product Specification

Model: VCO-111 **Rev:** - **Date:** 7/25/2002

Customer: VARI-L COMPANY

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

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	1500		2750	MHz	X	
Tuning Voltage:						
1500 MHz	0	1		Vdc	X	
2750 MHz		18.5	20	Vdc	X	
Tuning Sensitivity:						
1500 MHz	102.8	137	171.3	MHz/V	X	
1812.5 MHz	53.3	71	88.8	MHz/V	X	
2125 MHz	69.2	92.2	115.3	MHz/V	X	
2437.5 MHz	52.6	70.1	87.6	MHz/V	X	
2750 MHz	24.9	33.2	41.5	MHz/V	X	
Output Power -	10	12	16	dBm	X	
Output Phase Noise:						
10 kHz		-76	-70	dBc/Hz	X	
100 kHz		-98	-92	dBc/Hz	X	
1000 kHz		-122	-116	dBc/Hz	X	
Power Supply -	14.75	15	15.25	Volts	X	
Supply Current -		18	21	mA	X	
Harmonic Suppression:						
2nd Harmonic		-15	-10	dBc	X	
3rd Harmonic		-15	-10	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 14.75-15.25 V		5	10	MHz p-p		
Frequency Pulling - 22 dB RL		25	35	MHz p-p		(all phases)
Output Impedance -		50		Ω		
Modulation:						
Bandwidth	10000	20000		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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