



VCO Product Specification

Model: VCO-119 **Rev:** B **Date:** 7/25/2002

Customer: VARI-L COMPANY

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

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	3000		4800	MHz	X	
Tuning Voltage:						
3000 MHz	0	1.2		Vdc	X	
4800 MHz		18.1	20	Vdc	X	
Tuning Sensitivity:						
3000 MHz	144	192	240	MHz/V	X	
3450 MHz	100	133	166	MHz/V	X	
3900 MHz	84	112	140	MHz/V	X	
4350 MHz	70	94	118	MHz/V	X	
4800 MHz	35	57	72	MHz/V	X	
Output Power -	10	13	16	dBm	X	
Output Phase Noise:						
10 kHz		-67	-60	dBc/Hz	X	
100 kHz		-97	-90	dBc/Hz	X	
1000 kHz		-123	-117	dBc/Hz	X	
Power Supply -	14.75	15	15.25	Volts	X	
Supply Current -		22	25	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		18	25	MHz p-p		
Frequency Pulling - 28 dB RL		23	33	MHz p-p		(all phases)
Output Impedance -		50		Ω		
Modulation:						
Bandwidth	25000	40000		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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