



VCO Product Specification

Model: VCO-102TC **Rev:** A **Date:** 7/22/2002

Customer: VARI-L COMPANY

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

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	25		50	MHz	X	
Tuning Voltage:						
25 MHz	0	1.2		Vdc	X	
50 MHz		17	20	Vdc	X	
Tuning Sensitivity:						
25 MHz	1	1.3	1.7	MHz/V	X	
31.25 MHz	1.6	2.1	2.7	MHz/V	X	
37.5 MHz	1.8	2.4	2.9	MHz/V	X	
43.75 MHz	1.2	1.6	2	MHz/V	X	
50 MHz	0.6	0.8	1	MHz/V	X	
Output Power -	10	12.5	16	dBm	X	
Output Phase Noise:						
10 kHz		-115	-109	dBc/Hz	X	
100 kHz		-135	-129	dBc/Hz	X	
1000 kHz		-160	-154	dBc/Hz	X	
Power Supply -	14.75	15	15.25	Volts	X	
Supply Current -		12.5	15	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		0.05	0.1	MHz p-p		
Frequency Pulling - 12 dB RL		0.5	1.25	MHz p-p		
Output Impedance -		50		Ω		
Modulation:						
Bandwidth	80	125		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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