

VCO-118/118TC

Nominal Operating Parameters



Parameter	Specification			Unit	Condition
	Min	Typ	Max		
General Performance					
Frequency Range	250		500	MHz	100% Production Tested
Tuning Voltage :					
250MHz	0	1.3		Vdc	100% Production Tested
500MHz		17.6	20	Vdc	
Tuning Sensitivity:					
250MHz	11.9	15.8	19.8	MHz/V	100% Production Tested
312.5MHz	12.6	16.8	21	MHz/V	
375MHz	14.9	19.8	24.8	MHz/V	
437.5MHz	13.1	17.4	21.8	MHz/V	
500MHz	6.2	8.3	10.8	MHz/V	
Output Power	10	13	16	dBm	
Output Phase Noise:					
10kHz		-100	-94	dBc/Hz	100% Production Tested
100kHz		-123	-117	dBc/Hz	
1000kHz		-148	-142	dBc/Hz	
Power Supply	14.75	15	15.25	V	
Supply Current		14.5	16	mA	
Harmonic Suppression:					
2nd Harmonic		-12	-10	dBc	100% Production Tested
3rd Harmonic		-12	-10	dBc	
Spurious (Non-Harmonic)			-80	dBc	
Frequency Pushing – 14.75V to 15.25V		1	3	MHz p-p	
Frequency Pulling – 12dBRL		10	13	MHz p-p	
Output Impedance		50		Ω	
Modulation:					
Bandwidth	5000	10000		kHz	
Input Impedance		0.05		kΩ	

Package: TO-8 (Cir), 0.504 x 0.504 x 0.27 inches

VCO-118 Temperature Range: 0°C to 70°C

VCO-118TC Temperature Range: -55°C to 100°C

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