

VCO-117/117TC

Nominal Operating Parameters



Parameter	Specification			Unit	Condition
	Min	Typ	Max		
General Performance					
Frequency Range	300		600	MHz	100% Production Tested
Tuning Voltage :					
300MHz	0	1.4		Vdc	100% Production Tested
600MHz		18	20	Vdc	
Tuning Sensitivity:					
300MHz	14.9	19.8	24.8	MHz/V	100% Production Tested
375MHz	15.1	20.1	25.1	MHz/V	
450MHz	18.2	24.2	30.3	MHz/V	
525MHz	13.8	18.4	23	MHz/V	
600MHz	7.8	10.1	12.6	MHz/V	
Output Power	10	13	16	dBm	
Output Phase Noise:					
10kHz		-100	-94	dBc/Hz	100% Production Tested
100kHz		-122	-116	dBc/Hz	
1000kHz		-145	-139	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	4	MHz p-p	
Frequency Pulling – 12dBRL		10	12	MHz p-p	
Output Impedance		50		Ω	
Modulation:					
Bandwidth	5000	10000		kHz	
Input Impedance		0.05		k Ω	

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

VCO-117 Temperature Range: 0°C to 70°C

VCO-117TC Temperature Range: -55°C to 100°C

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