

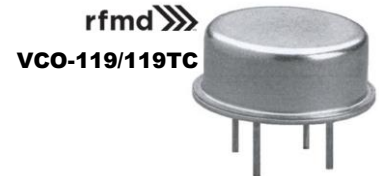
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# VCO-119/119TC



## Nominal Operating Parameters

Parameter	Specification			Unit	Condition
	Min	Typ	Max		
<b>General Performance</b>					
Frequency Range	3000		4800	MHz	100% Production Tested
Tuning Voltage :					
3000MHz	0	1.2		Vdc	100% Production Tested
4800MHz		18.1	20	Vdc	
Tuning Sensitivity:					
3000MHz	144	192	240	MHz/V	100% Production Tested
3450MHz	100	133	166	MHz/V	
3900MHz	84	112	140	MHz/V	
4350MHz	70	94	118	MHz/V	
4800MHz	35	57	72	MHz/V	
Output Power	10	13	16	dBm	
Output Phase Noise:					
10kHz		-67	-60	dBc/Hz	100% Production Tested
100kHz		-97	-90	dBc/Hz	
1000kHz		-123	-117	dBc/Hz	
Power Supply	14.75	15	15.25	V	
Supply Current		22	25	mA	
Harmonic Suppression:					
2nd Harmonic		-15	-10	dBc	100% Production Tested
3rd Harmonic		-15	-10	dBc	
Spurious (Non-Harmonic)			-80	dBc	
Frequency Pushing – 14.75V to 15.25V		18	25	MHz p-p	
Frequency Pulling – 28dBRL		23	33	MHz p-p	
Output Impedance		50		$\Omega$	
Modulation:					
Bandwidth	25000	40000		kHz	
Input Impedance		0.05		k $\Omega$	

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

**VCO-119 Temperature Range:** 0°C to 70°C

**VCO-119TC Temperature Range:** -55°C to 100°C

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