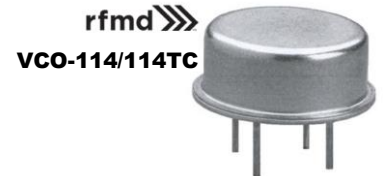


# VCO-114/114TC

## Nominal Operating Parameters



Parameter	Specification			Unit	Condition
	Min	Typ	Max		
<b>General Performance</b>					
Frequency Range	60		120	MHz	100% Production Tested
Tuning Voltage :					
60MHz	0	1.2		Vdc	100% Production Tested
120MHz		17	20	Vdc	
Tuning Sensitivity:					
60MHz	2.3	3	3.8	MHz/V	100% Production Tested
75MHz	3.1	4.2	5.2	MHz/V	
90MHz	3.8	5	6.3	MHz/V	
105MHz	3	4	5.1	MHz/V	
120MHz	1.6	2.2	2.7	MHz/V	
Output Power	10	12.5	16	dBm	
Output Phase Noise:					
10kHz		-110	-104	dBc/Hz	100% Production Tested
100kHz		-130	-124	dBc/Hz	
1000kHz		-150	-144	dBc/Hz	
Power Supply	14.75	15	15.25	V	
Supply Current		12.5	15	mA	
Harmonic Suppression:					
2nd Harmonic		-15	-10	dBc	100% Production Tested
3rd Harmonic		-12	-10	dBc	
Spurious (Non-Harmonic)			-80	dBc	
Frequency Pushing – 14.75V to 15.25V		0.05	0.2	MHz p-p	
Frequency Pulling – 12dBRL		1	3	MHz p-p	
Output Impedance		50		$\Omega$	
Modulation:					
Bandwidth	100	175		kHz	
Input Impedance		0.05		k $\Omega$	

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

**VCO-114 Temperature Range:** 0°C to 70°C

**VCO-114TC Temperature Range:** -55°C to 100°C

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