



VCO Product Specification

Model: VCO190-1950TY **Rev:** A **Date:** 8/6/2009
Customer: RF MICRO DEVICES
Operating Temperature Range: (-35 ° to 85 ° C)

RoHS Compliant

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	1900	1950	2000	MHz	X	
Tuning Voltage:						
1900 MHz	1	1.6		Vdc	X	
2000 MHz		4.5	6	Vdc	X	
Tuning Sensitivity -	25	35	50	MHz/V	X	
Output Power -	0	3	6	dBm	X	
Output Phase Noise:						
10 kHz		-100	-94	dBc/Hz		
100 kHz		-120	-114	dBc/Hz	X	
Power Supply -	4.75	5	5.25	Volts		
Supply Current -		11	15	mA	X	
Harmonic Suppression:						
2nd Harmonic		-15	-10	dBc	X	
3rd Harmonic		-20	-10	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 4.75-5.25 V		2	4	MHz p-p		
Frequency Pulling - 12 dB RL		2	5	MHz p-p		
Tuning Port Capacitance -		33		pF		
Output Impedance -		50		Ω		

Package Information

Package Type:	T (0.5 x 0.5 x 0.156 inches)	Drawing Number:	60035
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Comments

X Indicates parameter to be tested 100% in production

RoHS status based on EU Directive 2002/95/EC (at time of this document revision).

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