



## VCO Product Specification

**Model:** VCO190-300TY      **Rev:** A      **Date:** 8/7/2009  
**Customer:** RF MICRO DEVICES  
**Operating Temperature Range:** ( -35 ° to 85 ° C)

**RoHS Compliant**

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	250	300	350	MHz	X	
Tuning Voltage:						
250 MHz	1	1.8		Vdc	X	
350 MHz		9.2	10	Vdc	X	
Tuning Sensitivity -	12	14	20	MHz/V	X	
Output Power -	-3	0	3	dBm	X	
Output Phase Noise:						
10 kHz		-112	-105	dBc/Hz		
100 kHz		-132	-125	dBc/Hz	X	
Power Supply -	4.75	5	5.25	Volts		
Supply Current -		11	16	mA	X	
Harmonic Suppression:						
2nd Harmonic		-16	-10	dBc	X	
3rd Harmonic		-12	-8	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - 4.75-5.25 V		0.7	1.4	MHz p-p		
Frequency Pulling - 12 dB RL		0.3	1	MHz p-p		
Tuning Port Capacitance -		220	330	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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