



## VCO Product Specification

**Model:** VCO190-836TY      **Rev:** A      **Date:** 8/10/2009

**Customer:** RF MICRO DEVICES

**Operating Temperature Range:** ( -35 ° to 85 ° C)

**RoHS Compliant**

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	823	836	849	MHz	X	
Tuning Voltage:						
823 MHz	1	1.5		Vdc	X	
849 MHz		3.5	4	Vdc	X	
Tuning Sensitivity -	11	15	18	MHz/V	X	
Output Power -	0	3	6	dBm	X	
Output Phase Noise:						
10 kHz		-113	-106	dBc/Hz		
100 kHz		-133	-126	dBc/Hz	X	
Power Supply -	4.75	5	5.25	Volts		
Supply Current -		12	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		0.5	1.2	MHz p-p		
Frequency Pulling - 12 dB RL		1	2	MHz p-p		
Tuning Port Capacitance -		100		pF		
Output Impedance -		50		Ω		

### Package Information

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

### 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).

The information in this publication is believed to be accurate and reliable. However, no responsibility is assumed by RF Micro Devices, Inc. ("RFMD") for its use, nor for any infringement of patents, or other rights of third parties, resulting from its use. No license is granted by implication or otherwise under any patent or patent rights of RFMD. RFMD reserves the right to change component circuitry, recommended application circuitry and specifications at any time without prior notice.

Page 1 of 1