



VCO Product Specification

Model: VCO790-600TY **Rev:** A **Date:** 8/10/2009
Customer: RF MICRO DEVICES
Operating Temperature Range: (-40 ° to 70 ° C)

RoHS Compliant

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	400		800	MHz	X	
Tuning Voltage:						
400 MHz	0.5	2		Vdc	X	
800 MHz		14	20	Vdc	X	
Tuning Sensitivity:						
400 MHz	15	22	30	MHz/V	X	
500 MHz	24	30	36	MHz/V	X	
600 MHz	24	30	36	MHz/V	X	
700 MHz	24	30	36	MHz/V	X	
800 MHz	24	30	36	MHz/V	X	
Output Power -	1.5	5.5	9.5	dBm	X	
Output Phase Noise:						
1 kHz		-72	-66	dBc/Hz		
10 kHz		-102	-96	dBc/Hz		
100 kHz		-122	-116	dBc/Hz	X	
Power Supply -	4.75	5	5.25	Volts		
Supply Current -		23	30	mA	X	
Harmonic Suppression:						
2nd Harmonic		-5	-2.5	dBc	X	
3rd Harmonic		-12	-6	dBc	X	
Spurious (Non-Harmonic) -			-80	dBc		
Frequency Pushing - from 4.75 to 5.25 V		0.5	2	MHz p-p		
Frequency Pulling - into a 12 dB RL		2	5	MHz p-p		
Tuning Port Capacitance -		220		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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