



VCO Product Specification

Model: UMJ-441-D14-G **Rev:** A **Date:** 4/8/2013
Customer: RF MICRO DEVICES
Operating Temperature Range: (-40 ° to 85 ° C)

RoHS Compliant

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	203		218	MHz	X	
Tuning Voltage -	1		10	Vdc	X	
Tuning Sensitivity -		4		MHz/V		
Output Power:						
	7	9	11	dBm	X	
	7			dBm		@Vt=0
Output Phase Noise:						
0.1 kHz		-65	-62	dBc/Hz		
1 kHz		-95	-92	dBc/Hz		
10 kHz		-122	-119	dBc/Hz		
100 kHz		-142	-139	dBc/Hz		
1000 kHz		-162	-159	dBc/Hz		
Power Supply -		5		Volts	X	
Supply Current -		15		mA	X	
Harmonic Suppression:						
2nd Harmonic		-20	-15	dBc		
Frequency Pulling -		0.5	2	MHz p-p		@12dBr, all phases
Tuning Port Capacitance -		330		pF		
Modulation:						
Bandwidth		1000		kHz		3dB BW
Frequency Pushing (MHz/V) -		0.4	1	MHz/V		

Package Information

Package Type:	D14 (0.5 x 0.5 x 0.22 inches)	Drawing Number:	UP-D14
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Comments

X Indicates parameter to be tested 100% in production

Frequency Drift with Temperature: @ +85 degrees C, 1.0 MHz Typical, 2.0 MHz Maximum.

Frequency Drift with Temperature: @ -40 degrees C, 1.0 MHz Typical, 2.0 MHz Maximum.

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

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