



VCO Product Specification

Model: UMJ-232-D14-G **Rev:** B **Date:** 3/14/2013
Customer: RF MICRO DEVICES
Operating Temperature Range: (-40 ° to 85 ° C)

RoHS Compliant

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	87.4		109.4	MHz	X	
Tuning Voltage -	1		12	Vdc	X	
Tuning Sensitivity -		3		MHz/V		
Output Power:						
	7	9	11	dBm	X	
	6			dBm		@Vt=0
Output Phase Noise:						
1 kHz		-105	-100	dBc/Hz		
10 kHz		-130	-125	dBc/Hz		
100 kHz		-150	-145	dBc/Hz		
1000 kHz		-164	-155	dBc/Hz		
Power Supply -		5		Volts	X	
Supply Current -		15		mA	X	
Harmonic Suppression:						
2nd Harmonic		-25	-15	dBc		
Frequency Pulling -		0.1		MHz p-p		@12dBr, all phases
Tuning Port Capacitance -		1000		pF		
Modulation:						
Bandwidth		100		kHz		3dB BW
Frequency Pushing (MHz/V) -		0.05		MHz/V		

Package Information

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

Comments

X Indicates parameter to be tested 100% in production

Frequency Drift with Temperature: @ -40 degrees C, 0.5 MHz Typical.

Frequency Drift with Temperature: @ +85 degrees C, 0.5 MHz Typical.

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.