



VCO Product Specification

Model: UMS-2150-R16-G **Rev:** B **Date:** 4/24/2012
Customer: RF MICRO DEVICES
Operating Temperature Range: (-40 ° to 85 ° C)

RoHS Compliant

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	950		2150	MHz	X	
Tuning Voltage -	0.5		16	Vdc	X	
Tuning Sensitivity -		85		MHz/V		
Output Power:						
	8.5	11	13.5	dBm	X	
	8.5			dBm		@Vt=0
Output Phase Noise:						
1 kHz		-75	-70	dBc/Hz		
10 kHz		-102	-97	dBc/Hz		
100 kHz		-122	-115	dBc/Hz		
1000 kHz		-142	-135	dBc/Hz		
Power Supply -		12		Volts	X	
Supply Current -		28		mA	X	
Harmonic Suppression:						
2nd Harmonic		-20	-10	dBc		
Frequency Pulling -		15	20	MHz p-p		@12dBr, all phases
Tuning Port Capacitance -		47		pF		
Modulation:						
Bandwidth		1000		kHz		3dB BW
Frequency Pushing (MHz/V) -		1	1.5	MHz/V		

Package Information

Package Type:	R16 (0.5 x 0.5 x 0.18 inches)	Drawing Number:	UP-R16
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Comments

X Indicates parameter to be tested 100% in production

Frequency Drift with Temperature: @ -40 degrees C, 13.0 MHz Typical.

Frequency Drift with Temperature: @ +85 degrees C, 13.0 MHz Typical.

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

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