



## VCO Product Specification

**Model:** UMS-3000-R16-G    **Rev:** A    **Date:** 2/25/2010  
**Customer:** RF MICRO DEVICES  
**Operating Temperature Range:** ( -40 ° to 85 ° C)

**RoHS Compliant**

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	2000		3000	MHz	X	
Tuning Voltage -	1		14	Vdc	X	
Tuning Sensitivity -		90		MHz/V	X	
Output Power:						
	7	10	13	dBm	X	
	6			dBm		@Vt=0
Output Phase Noise:						
1 kHz		-70	-65	dBc/Hz		
10 kHz		-98	-93	dBc/Hz	X	
100 kHz		-118	-113	dBc/Hz		
1000 kHz		-138	-133	dBc/Hz		
10000 kHz		-158	-153	dBc/Hz		
Power Supply -		12		Volts	X	
Supply Current -		28		mA	X	
Harmonic Suppression:						
2nd Harmonic		-18	-10	dBc	X	
Frequency Pulling -		8	16	MHz p-p		@12dBr, all phases
Tuning Port Capacitance -		100		pF		
Modulation:						
Bandwidth		10000		kHz		
Frequency Pushing (MHz/V) -		1	2	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

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

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