



## VCO Product Specification

**Model:** UMS-1000\_A16\_G **Rev:** **Date:** 8/19/2009  
**Customer:** RF MICRO DEVICES  
**Operating Temperature Range:** ( -40 ° to 85 ° C)

**RoHS Compliant**

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	500		1000	MHz	X	
Tuning Voltage -	0.5		11	Vdc	X	
Tuning Sensitivity -		55		MHz/V	X	
Output Power:						
	7.5	10	12.5	dBm	X	
	6			dBm		@ Vt=0
Output Phase Noise:						
1 kHz		-78	-73	dBc/Hz		
10 kHz		-103	-97	dBc/Hz	X	
100 kHz		-123	-117	dBc/Hz		
1000 kHz		-143	-137	dBc/Hz		
10000 kHz		-163	-155	dBc/Hz		
Power Supply -		12		Volts	X	
Supply Current -		29		mA	X	
Harmonic Suppression:						
2nd Harmonic		-20	-12	dBc	X	
Frequency Pushing -		0.3	0.6	MHz p-p		MHz/V not MHz P-P
Frequency Pulling -		5	10	MHz p-p		@12 dBr,all phases
Tuning Port Capacitance -		100		pF		
Modulation:						
Bandwidth		5000		kHz		

### Package Information

Package Type:	A16 (0.5 x 0.5 x 0.135 inches)	Drawing Number:	UP-A16
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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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