

VCO-216/216TC

Nominal Operating Parameters



Parameter	Specification			Unit	Condition
	Min	Typ	Max		
General Performance					
Frequency Range	150		300	MHz	100% Production Tested
Tuning Voltage :					
150MHz	0	1.4		Vdc	100% Production Tested
300MHz		17	20	Vdc	
Tuning Sensitivity:					
150MHz	6.5	8.7	10.8	MHz/V	100% Production Tested
187.5MHz	7.6	10.2	12.7	MHz/V	
225MHz	10.2	13.6	17	MHz/V	
262.5MHz	7.5	10.1	12.6	MHz/V	
300MHz	4	5.3	6.6	MHz/V	
Output Power	10	13	16	dBm	
Output Phase Noise:					
10kHz		-110	-104	dBc/Hz	100% Production Tested
100kHz		-130	-124	dBc/Hz	
1000kHz		-155	-149	dBc/Hz	
Power Supply	14.75	15	15.25	V	
Supply Current		13.7	16	mA	
Harmonic Suppression:					
2nd Harmonic		-22	-18	dBc	100% Production Tested
3rd Harmonic		-18	-14	dBc	
Spurious (Non-Harmonic)			-80	dBc	
Frequency Pushing – 14V to 16V		0.25	0.4	MHz p-p	
Frequency Pulling – 12dBRL		4	8	MHz p-p	
Output Impedance		50		Ω	
Modulation:					
Bandwidth	5000	7000		kHz	
Input Impedance		0.05		k Ω	

Package: TO-8 (Cir), 0.504 x 0.504 x 0.27 inches

VCO-216 Temperature Range: 0°C to 70°C

VCO-216TC Temperature Range: -55°C to 100°C

RF Micro Devices Inc. 7628 Thorndike Road, Greensboro, NC 27409-9421
 For sales or technical support, contact RFMD at +1.336.678.5570 or customerservice@rfmd.com.

DS140313

RF MICRO DEVICES® and RFMD® are trademarks of RFMD, LLC. BLUETOOTH is a trademark owned by Bluetooth SIG, Inc., U.S.A. and licensed for use by RFMD. All other trade names, trademarks, and registered trademarks are the property of their respective owners. ©2013, RF Micro Devices, Inc.