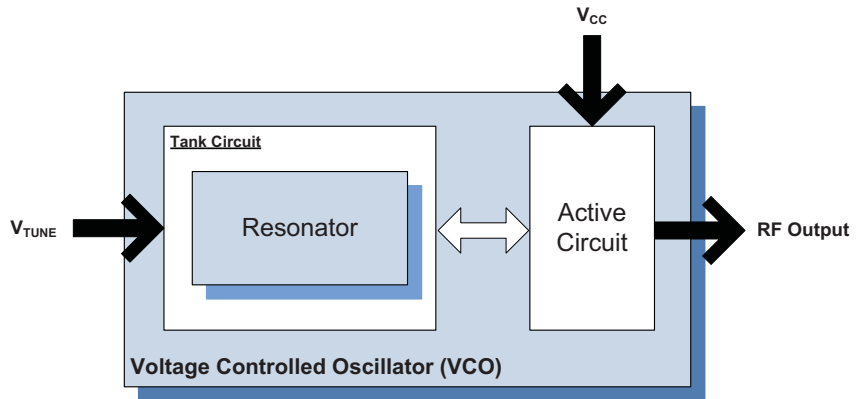




**Features**

- Ultra-Linear Tuning / Ultra-Low Phase Noise
- Frequency: 3230MHz to 3410MHz
- Resonator: Ceramic
- PCB: Rogers
- Package Size: 12.7mm x 12.7mm x 5.6mm (0.5in x 0.5in x 0.22in)



Functional Block Diagram

**Applications**

- Point-to-Point Radio
- DRO/YIG Multiplied Replacements
- Low Phase Noise Applications
- SAW VCO Replacement

**Product Description**

This VCO series features ultra-low phase noise, lower phase transients, lower harmonics, and lower pushing and pulling without any performance penalties typically associated with high technology designs.

**Ordering Information**

UMX-918-D16-G      Contact us at 1-480-756-6070

**Optimum Technology Matching® Applied**

- |                                      |                                      |  |                                    |
|--------------------------------------|--------------------------------------|--|------------------------------------|
| <input type="checkbox"/> GaAs HBT    | <input type="checkbox"/> SiGe BiCMOS | <input type="checkbox"/> GaAs pHEMT        | <input type="checkbox"/> GaN HEMT  |
| <input type="checkbox"/> GaAs MESFET | <input type="checkbox"/> Si BiCMOS   | <input type="checkbox"/> Si CMOS           | <input type="checkbox"/> BiFET HBT |
| <input type="checkbox"/> InGaP HBT   | <input type="checkbox"/> SiGe HBT    | <input checked="" type="checkbox"/> Si BJT | <input type="checkbox"/> LDMOS     |

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## Absolute Maximum Ratings

Parameter	Rating	Unit
Operating Ambient Temperature[1]	-40 to +85	°C
Storage Temperature	-55 to +125	°C

[1] Frequency drift: 8MHz typical (either extreme).



**Caution!** ESD sensitive device.

Exceeding any one or a combination of the Absolute Maximum Rating conditions may cause permanent damage to the device. Extended application of Absolute Maximum Rating conditions to the device may reduce device reliability. Specified typical performance or functional operation of the device under Absolute Maximum Rating conditions is not implied.

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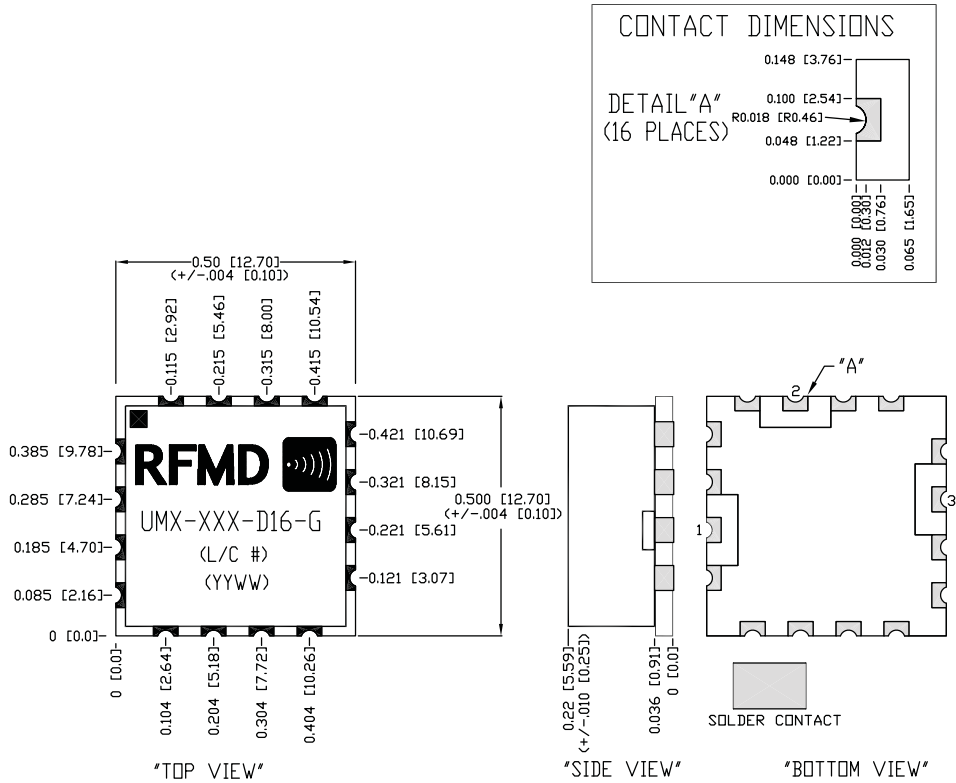


RoHS (Restriction of Hazardous Substances): Compliant per EU Directive 2002/95/EC.

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
<b>Overall</b>					
Frequency Range	3230		3410	MHz	
Tuning Voltage	0		18	V <sub>DC</sub>	
Tuning Sensitivity		13		MHz/V	
Output Power	-2.5	0	2.5	dBm	
	-2.5				At V <sub>T</sub> = 0
Output Phase Noise		-84	-79	dBc/Hz	1 kHz
		-112	-108		10 kHz
		-132	-129		100 kHz
		-152	-149		1000 kHz
		-162	-155		10000 kHz
Second Harmonic		-20	-10	dBc	
Frequency Pulling		0.3	1	MHz p-p	At 12 dB <sub>r</sub> , all phases
Tuning Port Capacitance		10		pF	
Modulation Bandwidth		5000		kHz	3dB BW
Frequency Pushing		0.2	0.5	MHz/V	
<b>Power Supply</b>					
Operating Voltage		8		V	
Supply Current		30		mA	

**Package Drawing & Pin Outs**

12.7mm x 12.7mm x 5.6mm (0.5in x 0.5in x 0.22in)



CONTACT ASSIGNMENTS:	
1:	RF OUT
2:	SUPPLY INPUT
3:	TUNING VOLTAGE INPUT
ALL OTHER CONTACTS ARE GROUND	