

UMV-3550-R16-G

ULTRA-LINEAR TUNING VOLTAGE CONTROLLED OSCILLATOR

Package: R16, 12.7mm x 12.7mm x 4.57mm

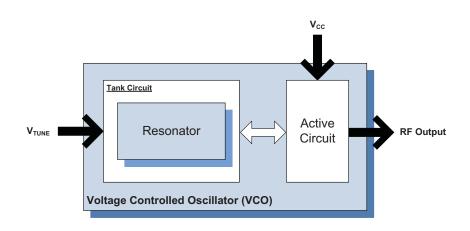


Features

- Linear Tuning/100MHz Frequency
- Frequency: 3500MHz to 3600MHz
- Resonator: Microstrip
- PCB: Rogers
- Package Size: 12.7mm x
 12.7mm x 4.57mm (0.5in x 0.5in x 0.18in)

Applications

- Frequency Sythesizers
- Upconverters and Downconverters
- Narrow V_{TUNE} and V_{CC} Applications



Functional Block Diagram

Product Description

This series of VCO modules offers ultra-linear tuning across their specified frequency band.

Ordering Information

UMV-3550-R16-G Contact us at 1-480-756-6070

Optimum Technology Matching® Applied

☐ GaAs HBT	☐ SiGe BiCMOS	☐ GaAs pHEMT	☐ GaN HEMT
☐ GaAs MESFET	☐ Si BiCMOS	□ Si CMOS	☐ BiFET HBT
☐ InGaP HBT	☐ SiGe HBT	▼ Si BJT	☐ LDMOS

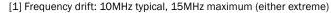
RF MICRO DEVICES®, RFMD®, Optimum Technology Matching®, Enabling Wireless Connectivity™, PowerStar®, POLARIS™ TOTAL RADIO™ and UltimateBlue™ are trademarks of RFMD, LLC. BLUETOOTH is a trade mark owned by Bluetooth SiG, Inc., U.S.A. and licensed for use by RFMD. All other trade names, trademarks and registered trademarks are the property of their respective owners. ©2006, RF Micro Devices, Inc.

UMV-3550-R16-G



Absolute Maximum Ratings

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





Caution! ESD sensitive device.

CAUDIN LOD SETISITIVE 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.

The information in this publication is believed to be accurate and reliable. However, no responsibility is assumed by RF Micro Devices, Inc. ("RFMD") for its use, nor for any infringement of patents, or other rights of third parties, resulting from its use. No license is granted by implication or otherwise under any patent or patent rights of RFMD. RFMD reserves the right to change component circuitry, recommended application circuitry and specifications at any time without prior notice.



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

Parameter		Specification		l lusit	Condition
	Min.	Тур.	Max.	Unit	Condition
Overall					
Frequency Range	3500		3600	MHz	
Tuning Voltage	0.5		4.5	V _{DC}	
Tuning Sensitivity		36		MHz/V	
Output Power	-2.5	0	2.5	dBm	
	-3				At $V_T = O$
Output Phase Noise		-77	-72	dBc/Hz	1kHz
		-102	-97	dBc/Hz	10kHz
		-122	-117	dBc/Hz	100kHz
		-142	-137	dBc/Hz	1000 kHz
Second Harmonic		-15	-10	dBc	
Frequency Pulling		1	2	MHz p-p	At 12dBr, all phases
Tuning Port Capacitance		20		pF	
Modulation Bandwidth		1000		kHz	3dB BW
Frequency Pushing		1.5	3	MHz/V	
Power Supply					
Operating Voltage		5		V	
Supply Current		28		mA	

UMV-3550-R16-G



Package Drawing & Pin Outs

12.7mm x 12.7mm x 4.57mm (0.5in x 0.5in x 0.18in)

