

UMS-3000-R16-G

WIDEBAND VOLTAGE CONTROLLED OSCILLATOR

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

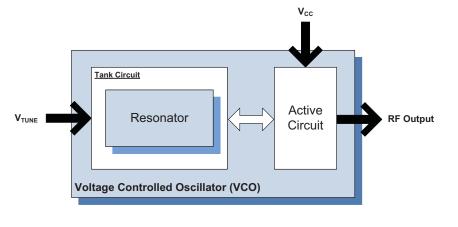


Features

- Frequency: 2000MHz to 3000MHz
- Resonator: Microstrip
- PCB: Rogers
- Package Size: 12.7mm x 12.7mm x 4.57mm (0.5in x 0.5in x 0.18in)

Applications

- Wide Band Applications
- Built-in Test Applications
- First LO Applications
- Frequency Sythesizers



Functional Block Diagram

Product Description

This series of VCO modules features full octave bands (typical), low phase noise, low harmonics, and linear tuning.

Ordering Information

UMS-3000-R16-G Contact us at 1-480-756-6070

Optimum Technology Matching® Applied

GaAs HBT GaAs MESFET InGaP HBT

□ SiGe BiCMOS Si BiCMOS SiGe HBT

GaAs pHEMT GaN HEMT Si CMOS Si BJT

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BIFET HBT LDM0S

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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: 10.0MHz 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		Linit	
	Min.	Тур.	Max.	Unit	Condition
Overall					
Frequency Range	2000		3000	MHz	
Tuning Voltage	1		14	V _{DC}	
Tuning Sensitivity		90		MHz/V	
Output Power	7	10	13	dBm	
	6				At V _T = 0
Output Phase Noise		-70	-65	dBc/Hz	1kHz
		-98	-93	dBc/Hz	10kHz
		-118	-113	dBc/Hz	100 kHz
		-138	-133	dBc/Hz	1000 kHz
		-158	-153	dBc/Hz	10000kHz
Second Harmonic		-18	-10	dBc	
Frequency Pulling		8	16	MHz p-p	At 12dBr, all phases
Tuning Port Capacitance		100		pF	
Modulation Bandwidth		10000		kHz	3dB BW
Frequency Pushing		1	2	MHz/V	
Power Supply					
Operating Voltage		12		V	
Supply Current		28		mA	





Package Drawing & Pin Outs

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

