

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









UMZ-T2-397-016-G

VOLTAGE CONTROLLED OSCILLATOR WITH INTERNAL DOUBLER

Package: 016, 12.7mm x 12.7mm x 5.59mm

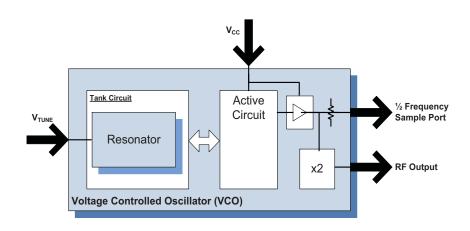


Features

- Internal Frequency Doubler and Buffer AMP
- 1/2 Frequency Output Provided
- Frequency: 6525MHzResonator: Microstrip
- PCB: Rogers
- Package Size: 12.7mm x
 12.7mm x 5.59mm (0.5in x 0.5in x 0.22in)

Applications

- DRO Replacements
- Higher Frequency Applications
- Wide Bandwidth Applications
- Test Instrumentation



Functional Block Diagram

Product Description

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

Ordering Information

UMZ-T2-397-016-G Contact us at 1-480-756-6070

Optimum Technology Matching® Applied

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

UMZ-T2-397-016-G



Absolute Maximum Ratings

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

^[1] Frequency drift: 13MHz 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.

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		11:4	O andition
	Min.	Тур.	Max.	Unit	Condition
Overall					
Frequency Range		6525		MHz	
Tuning Voltage	0.5		4.5	V _{DC}	
Tuning Sensitivity		60		MHz/V	
Output Power	-3	0	2.5	dBm	
	-10	-5	0	dBm	1/2 frequency output
	-4			dBm	At V _T =0
Output Phase Noise		-70	-65	dBc/Hz	1kHz
		-96	-91	dBc/Hz	10kHz
		-116	-111	dBc/Hz	100kHz
		-136	-131	dBc/Hz	1000 kHz
		-156	-151	dBc/Hz	10000 kHz
Second Harmonic		-20	-10	dBc	
Frequency Pulling		0.2	0.5	MHz p-p	At 12dBr, all phases
Tuning Port Capacitance		10		pF	
Modulation Bandwidth		1000		kHz	3dB BW
Frequency Pushing		3	5	MHz/V	
Power Supply					
Operating Voltage		5		V	
Supply Current		50		mA	

UMZ-T2-397-016-G

Package Drawing & Pin Outs

12.7mm x 12.7mm x 5.59mm (0.5in x 0.5in x 0.22in)

