

UMZ-T2-1080-016-G

VOLTAGE CONTROLLED OSCILLATOR WITH INTERNAL DOUBLER

Package: 016, 12.7mm x 12.7mm x 5.6mm

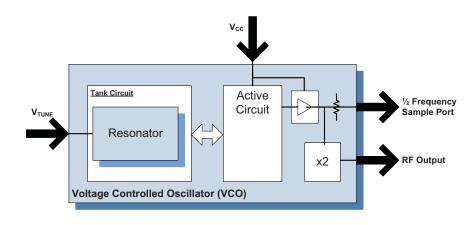


Features

- Internal Frequency Doubler and Buffer AMP
- 1/2 Frequency Output Provided
- Frequency: 5200 MHz to 5800 MHz
- Resonator: Microstrip
- PCB: Rogers
- Package Size: 12.7 mm x 12.7 mm x 5.6 mm (0.5 in x 0.5 in x 0.22 in)

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-T2-1080-016-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		

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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: 18MHz typical (either extreme).



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.

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

Parameter		Specification		11:4	Open disting
	Min.	Тур.	Max.	Unit	Condition
Overall					
Frequency Range	5200		5800	MHz	
Tuning Voltage	1		12	V_{DC}	
Tuning Sensitivity		80		MHz/V	
Output Power	-3	0	3	dBm	
	-3			dBm	At V _T =0
Output Phase Noise		-68	-63	dBc/Hz	1kHz
		-95	-90	dBc/Hz	10kHz
		-115	-110	dBc/Hz	100 kHz
		-135	-130	dBc/Hz	1000kHz
		-155	-150	dBc/Hz	10000 kHz
Second Harmonic		-20	-13	dBc	
Frequency Pulling		0.1	0.3	MHz p-p	At 12dBr, all phases
Tuning Port Capacitance		10		pF	
Modulation Bandwidth		1000		kHz	3dB BW
Frequency Pushing		1.5	4.5	MHz/V	
Power Supply					
Operating Voltage		8		V	
Supply Current		53		mA	

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Package Drawing & Pin Outs

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

