

UMZ-T2-227-016-G

VOLTAGE CONTROLLED OSCILLATOR WITH INTERNAL DOUBLER

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

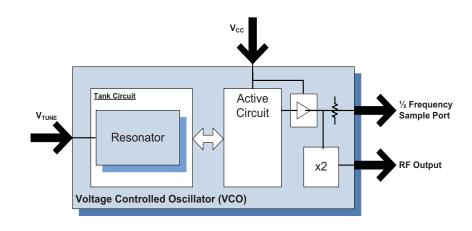


Features

- Internal Frequency Doubler and Buffer AMP
- 1/2 Frequency Output Provided
- Frequency: 4900MHz to 5900MHz
- Resonator: 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-T2-227-016-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: 35MHz typical, 45MHz maximum (either extreme)



Caution! ESD sensitive device.

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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		1124	0 - 1111 - 11
	Min.	Тур.	Max.	Unit	Condition
Overall					
Frequency Range	4900		5900	MHz	
Tuning Voltage	1		11	V _{DC}	
Tuning Sensitivity		120		MHz/V	
Output Power	-4	-1	2	dBm	
	-10	-5	0	dBm	1/2 frequency output
	-10			dBm	At V _T =0
Output Phase Noise		-65	-60	dBc/Hz	1kHz
		-92	-87	dBc/Hz	10kHz
		-112	-107	dBc/Hz	100kHz
		-132	-127	dBc/Hz	1000 kHz
		-152	-147	dBc/Hz	10000kHz
Second Harmonic		-18	-14	dBc	
Frequency Pulling		1	2	MHz p-p	At 12dBr, all phases
Tuning Port Capacitance		47		pF	
Modulation Bandwidth		1000		kHz	3dB BW
Frequency Pushing		5	10	MHz/V	
Power Supply					
Operating Voltage		5		V	
Supply Current		51		mA	

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Package Drawing & Pin Outs

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

