

UMZ-104-A16-G

MICROSTRIP VOLTAGE CONTROLLED OSCILLATOR

Package: A16, 12.7mm x 12.7mm x 3.43mm

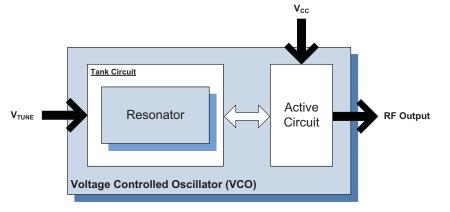


Features

- Ultra-Linear Tuning/Low Phase Noise
- Frequency: 1218MHz to 1262MHz
- Resonator: Microstrip
- PCB: Rogers
- Package Size: 12.7mm x 12.7mm x 3.43mm (0.5in x 0.5in x 0.135in)

Applications

- Frequency Synthesizers
- Up & Down Converters
- Instrumentation
- Wideband Frequency Applications



Functional Block Diagram

Product Description

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

Ordering Information

UMZ-104-A16-G Contact us at 1-480-756-6070

Optimum Technology Matching® Applied

🗌 GaAs HBT	SiGe BiCMOS	🗌 GaAs pHEMT
GaAs MESFET	🗌 Si BiCMOS	□_Si CMOS
🗌 InGaP HBT	SiGe HBT	🗹 Si BJT

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GaN HEMT BiFET HBT LDMOS

UMZ-104-A16-G



Absolute Maximum Ratings

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

[1] Frequency drift: 2MHz typical, 4MHz maximum (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		11		
	Min.	Тур.	Max.	Unit	Condition
Overall					
Frequency Range	1218		1262	MHz	
Tuning Voltage	0.5		4.5	V _{DC}	
Tuning Sensitivity		16		MHz/V	
Output Power	6	8	10	dBm	
	5			dBm	At V _T =0
Output Phase Noise		-87	-82	dBc/Hz	1kHz
		-112	-107	dBc/Hz	10kHz
		-132	-127	dBc/Hz	100kHz
		-152	-147	dBc/Hz	1000 kHz
		-164	-155	dBc/Hz	10000kHz
Second Harmonic		-15	-10	dBc	
Frequency Pulling		2	5	MHz p-p	At 12dBr, all phases
Tuning Port Capacitance		47		pF	
Modulation Bandwidth		1000		kHz	3dB BW
Frequency Pushing		0.3	1	MHz/V	
Power Supply	· · ·				
Operating Voltage		5		V	
Supply Current		19		mA	

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Package Drawing & Pin Outs

12.7mm x 12.7mm x 3.43mm (0.5in x 0.5in x 0.135in)

