

UMZ-505-A16-G

MICROSTRIP VOLTAGE CONTROLLED OSCILLATOR

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

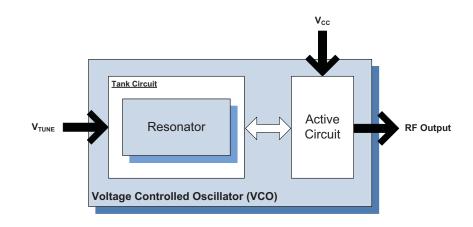


Features

- Ultra-Linear Tuning/Low Phase Noise
- Frequency: 890MHz to 960MHz
- 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-505-A16-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: 5MHz 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		l lusit	Open disting
	Min.	Тур.	Max.	Unit	Condition
Overall					
Frequency Range	890		960	MHz	
Tuning Voltage	0.5		4.5	V _{DC}	
Tuning Sensitivity		27		MHz/V	
Output Power	0	2	4	dBm	
	0			dBm	At V _T =0
Output Phase Noise		-86	-81	dBc/Hz	1kHz
		-111	-106	dBc/Hz	10kHz
		-131	-126	dBc/Hz	100kHz
		-151	-146	dBc/Hz	1000 kHz
Second Harmonic		-15	-10	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		1.5	2	MHz/V	
Power Supply			·		
Operating Voltage		5		V	
Supply Current		27		mA	



Package Drawing & Pin Outs

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

