

UMZ-565-A16-G

MICROSTRIP VOLTAGE CONTROLLED OSCILLATOR

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

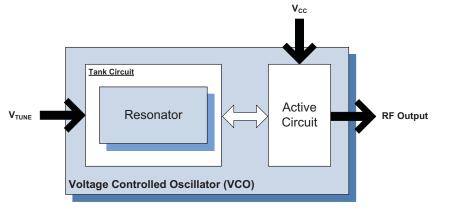


Features

- Ultra-Linear Tuning/Low Phase Noise
- Frequency: 300MHz to 440MHz
- 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-565-A16-G Contact us at 1-480-756-6070

Optimum Technology Matching® Applied

GaAs HBT GaAs MESFET InGaP HBT

support, contact REM

□ SiGe BiCMOS Si BiCMOS SiGe HBT

GaAs pHEMT GaN HEMT Si CMOS Si BJT

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BIFET HBT LDM0S

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UMZ-565-A16-G



Absolute Maximum Ratings

5			
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		11.4.14	Condition
	Min.	Тур.	Max.	Unit	Condition
Overall					
Frequency Range	300		440	MHz	
Tuning Voltage	0		5.5	V _{DC}	
Tuning Sensitivity		38		MHz/V	
Output Power	9	11	13	dBm	
	7			dBm	At V _T =0
Output Phase Noise		-80	-75	dBc/Hz	1kHz
		-103	-98	dBc/Hz	10kHz
		-123	-118	dBc/Hz	100kHz
		-143	-138	dBc/Hz	1000 kHz
		-163	-155	dBc/Hz	10000kHz
Second Harmonic		-8	-5	dBc	
Frequency Pulling		5	10	MHz p-p	At 12dBr, all phases
Tuning Port Capacitance		330		pF	
Modulation Bandwidth		1000		kHz	3dB BW
Frequency Pushing		1	2	MHz/V	
Power Supply					
Operating Voltage		6		V	
Supply Current		19		mA	





Package Drawing & Pin Outs

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

