

UMS-800-A16-G

OCTAVE BAND VOLTAGE CONTROLLED OSCILLATOR

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

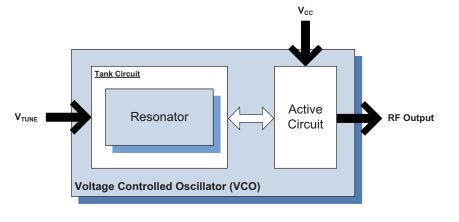


Features

- Octave Band Tuning
- Frequency: 400MHz to 800MHz
- Resonator: Microstrip
- PCB: Rogers
- Package Size: 12.7mm x 12.7mm x 3.43mm (0.5in x 0.5in x 0.135in)

Applications

- Wide Band Applications
- Built-in Test Applications
- First LO Applications
- Frequency Sythesizers



Functional Block Diagram

Product Description

This series of VCO modules features full octave bands (typical), low phase noise, low harmonics, and linear tuning.

Ordering Information

UMS-800-A16-G Contact us at 1-480-756-6070

Optimum Technology Matching® Applied

GaAs HBT GaAs MESFET InGaP HBT

support, contact

SiGe BiCMOS Si BiCMOS SiGe HBT

GaN HEMT GaAs pHEMT Si CMOS BIFET HBT Si BJT LDM0S

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UMS-800-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: 5.0MHz 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		Unit	Condition
	Min.	Тур.	Max.	Unit	Condition
Overall					
Frequency Range	400		800	MHz	
Tuning Voltage	0.5		11	V _{DC}	
Tuning Sensitivity		45		MHz/V	
Output Power	9.5	12	13.5	dBm	
	9.5			dBm	At V _T =0
Output Phase Noise		-78	-73	dBc/Hz	1kHz
		-104	-99	dBc/Hz	10kHz
		-124	-119	dBc/Hz	100kHz
		-144	-139	dBc/Hz	1000 kHz
Second Harmonic		-20	-8	dBc	
Frequency Pulling		5	15	MHz p-p	At 12dBr, all phases
Tuning Port Capacitance		100		pF	
Modulation Bandwidth		10000		kHz	3dB BW
Frequency Pushing		0.5	1	MHz/V	
Power Supply	· · · · · ·				
Operating Voltage		12		V	
Supply Current		30		mA	





Package Drawing & Pin Outs

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

