

UMJ-858-D14-G

VOLTAGE CONTROLLED OSCILLATOR FOR IF CONVERSION

Package: D14, 12.7mm x 12.7mm x 5.59mm

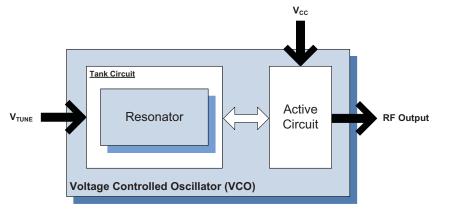


Features

- Ultra-low Phase Noise/Low Current
- Frequency: 400MHz
- Resonator: Aircoil
- PCB: Rogers
- Package Size: 12.7mm x 12.7mm x 5.59mm (0.5in x 0.5in x 0.22in)

Applications

- IF Conversion Applications
- Low Phase Noise Agile Clock Applications
- Low Phase Noise Applications



Functional Block Diagram

Product Description

This series of VCO modules offers an ultra-low noise VCO which includes an internal buffer amplifier for high performance IF conversion.

Ordering Information

UMJ-858-D14-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

1) 636-678-5570 or customerspryice@rfmd.

GaAs pHEMT GaN HEMT Si CMOS Si BJT

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BIFET HBT LDM0S

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Absolute Maximum Ratings

0		
Parameter	Rating	Unit
Operating Ambient Temperature[1]	-40 to +85	°C
Storage Temperature	-55 to +125	°C

[1] Frequency drift: 1.5MHz 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	
	Min.	Тур.	Max.	Unit	Condition
Overall	M				
Frequency Range		400		MHz	
Tuning Voltage	1		4	V _{DC}	
Tuning Sensitivity		4		MHz/V	
Output Power	7	9	11	dBm	
	7			dBm	At V _T =0
Output Phase Noise		-98	-93	dBc/Hz	1kHz
		-125	-120	dBc/Hz	10kHz
		-145	-140	dBc/Hz	100kHz
		-165	-160	dBc/Hz	1000 kHz
Second Harmonic		-20	-10	dBc	
Frequency Pulling		0.5	1	MHz p-p	At 12dBr, all phases
Tuning Port Capacitance		100		pF	
Modulation Bandwidth		1000		kHz	3dB BW
Frequency Pushing		0.5	1	MHz/V	
Power Supply			•		
Operating Voltage		5		V	
Supply Current		20		mA	





Package Drawing & Pin Outs

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

