

Dynamic Engineers Inc.

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Features and Benefits

Two +12dBm sine outputs Compact 9 x 14 mm package Low Noise: Less than -140 dBc/Hz @ 1KHz 3.3V supply; Less than 25 mA current consumption. Less than ±0.28 ppm stability

Typical Applications

Clock Reference Module able to serve multiple RF IC's such as Transceiver and A/D functions

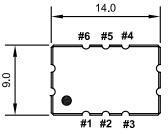
Description

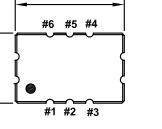
Core Clock TCXO function combined with value-added circuitry to create two separate outputs

7.5

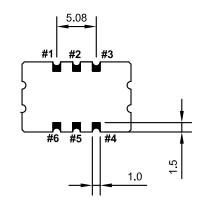
Mechanical Drawing & Pin Connections

Drawing No: MD150098-4









Solder pattern

- **Pin Connections:**
- #1 N.C. #2. N.C. #3. GND #4. RF Output (1) #5. RF Output (1 inverse) #6. Vcc

1.6

Unit in mm 1mm = 0.0394 inches

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Rev.1



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Specifications

Oscillator Specification	Sym	Condition	Value			11.4	Nete
			Min.	Тур.	Max.	Unit	Note
Operational Frequency Range	Fnom			20.0000		MHz	
Output Waveform		>12dBm		Sine wave			
Output Load				50		Ω	
Start-up time				<5		ms	
Power Supply							
Supply Voltage	V _{dc}			+3.3		V	
Current Consumption				<25		mA	
Frequency Stability							
Versus Temperature Reference to (F _{MAX} +F _{MIN}) / 2		Over -40°C to +85°C		<±0.28		ppm	
Tolerance ex factory		@ +25° C		≤±1.00		ppm	
Versus Supply Voltage Change Reference to frequency at nominal supply				≤±0.05		ppm	±5%
Versus Load Changes Reference to frequency at nominal load				≤±0.05		ppm	±10%
Versus Aging after 10 days of operation		1 st year		≤±0.80		ppm	
Phase Noise@20 MHz carrier frequency		1 kHz		<-140		dBc/Hz	
		10kHz		<-145		UDC/112	
Environmental Conditions							
Operating temperature range	-40°C to +85°C						
Storage temperature range	-55°C to +125°C						
Reflow Profiles	Per IPC/JEDEC J-STD-020C ≤245°C over 10 sec. Max.						
Moisture Sensitivity	Level 1 (unlimited)						