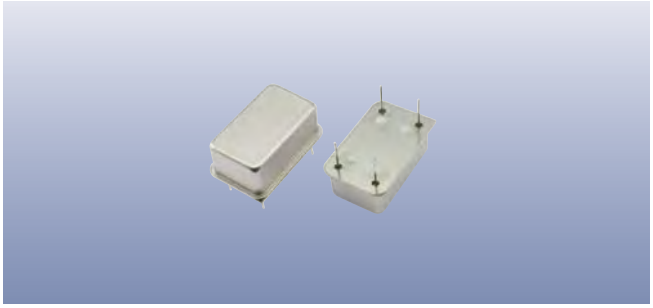
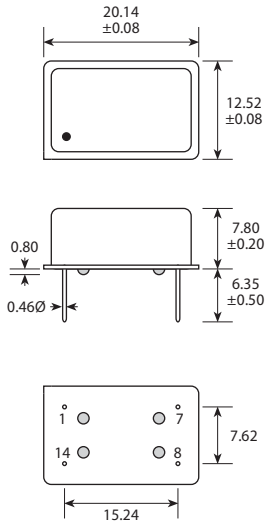
3.3V OCXO Sine Output

MCOCXOWS





PIN	CONNECTION
1	Freq adjustment
7	Ground
8	Output
14	Supply

Scale 1:1

Features

- ***Compact 14-pin DIL package (SMD optional)***
- ***3.3V supply voltage***
- ***Sinewave output***
- ***Very fast warmup***
- ***Low power consumption***
- ***Wide temperature range available***

Standard Frequencies

Frequencies in MHz	
10.00000	20.00000
12.80000	26.00000
16.00000	40.00000
16.38400	50.00000
19.44000	52.00000

Specifications

Parameters	***Product*** ***MCOCXOWS***	***Option Codes***
Frequency range: 10.0 ~ 54.0MHz	■	
Frequency stability:		
±0.7ppm max first year	■	
±4ppm max in 10 years	■	
±0.1ppm over V_{DD} ±0.15V	■	
±0.01ppm over 10% change in load	■	
Short term stability:		
$5x10^{-10}$, 0.1 to 30s	■	
$5x10^{-11}$ over 1s typ	■	
Temperature stability:		
±0.075ppm max, 0 to +60°C	□	A
±0.15ppm max, -20 to +70°C	□	B
±0.25ppm max, -40 to +85°C	□	C
Operable temperature range:		
-40 to +85°C	■	
Storage temperature range:		
-65 to +125°C	■	
Output waveform:		
Sinewave from 50Ω	■	
Harmonics < -10dBc		
Spurii < -70dBc		
Level: ≥ 4dBm / 50Ω (≤20MHz)	■	
≥ 0dBm / 50Ω (>20MHz)	■	
Frequency adjustment:		
Control voltage (pin 1)	□	V3
±4ppm min, 0V ~ 3.3V		
Variable resistor (pins 1 to 7)	□	R1
±4ppm min, 0 ~ 10kΩ		
Supply voltage (V_{DD}):		
+3.3V (±0.15V)	■	
Input current: 110mA max @ +30°C	■	
170mA max @ -20°C	■	
Warm up:		
within spec after 30s @ 0°C	■	
current 250mA max during 10s	■	
Phase noise (typ @ 10MHz):		
-110dBc/Hz @ 10Hz	■	
-135dBc/Hz @ 100Hz	■	
-145dBc/Hz @ 1kHz	■	
-150dBc/Hz @ 10kHz	■	
Shock & vibration:		
2,000G, 0.3ms ½-sine	■	
10.0 ~ 2,000Hz, 10G	■	
Package: Through hole 14 pin DIL	■	
25x22mm SMD carrier PCB	□	D1
Formed leads SMD	□	D2

■ Standard. □ Optional - Please specify required code(s) when ordering

Ordering Information

Product name + option codes + frequency
eg: ***MCOCXOWS-AR1 10.0MHz***
MCOCXOWS-BV3 16.384MHz
Option code X (eg MCOCXOWS/X) denotes a custom spec.

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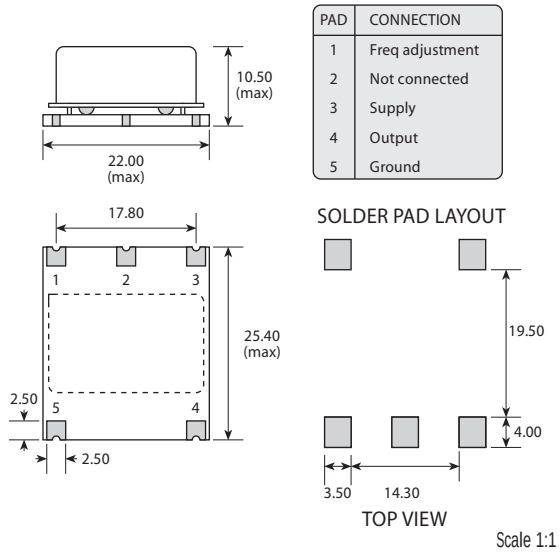
Golledge

01 Jul 2010

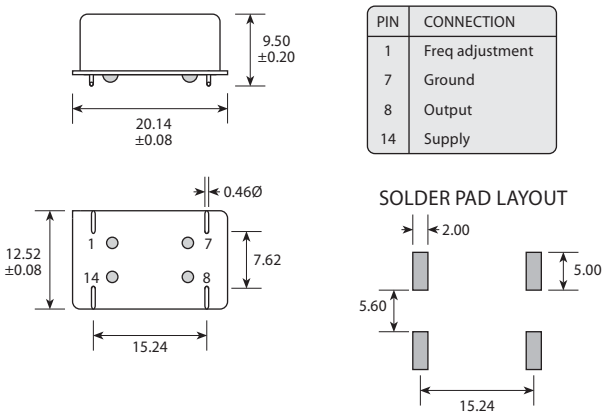
Option D1



PAD	CONNECTION
1	Freq adjustment
2	Not connected
3	Supply
4	Output
5	Ground

Scale 1:1

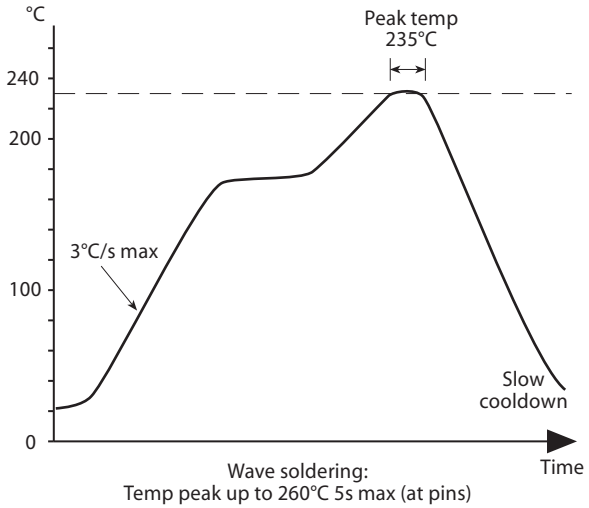
Option D2



PIN	CONNECTION
1	Freq adjustment
7	Ground
8	Output
14	Supply

Scale 1:1

Soldering Profile



Wave soldering:
Temp peak up to 260°C 5s max (at pins)