



Scale 1:1

Features

- Compact 14-pin DIL package
- 5.0V supply voltage
- Sinewave output
- Very fast warmup
- Low power consumption
- Wide temperature range available

Standard Frequencies

Frequencies in MHz	
10.00000	16.38400
12.80000	19.44000
16.00000	20.00000

Specifications

Parameters	Product	Option Codes
	MCOCXOVS	
Frequency range: 10.0 ~ 20.0MHz (20.1~40.0MHz under development)	<input checked="" type="checkbox"/>	
Frequency stability: ±0.7ppm max first year ±4ppm max in 10 years ±0.1ppm over V_{DD} ±0.2V ±0.01ppm over load min to max	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Short term stability: 5×10^{-10} , 0.1 to 30s 5×10^{-11} over 1s typ	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Temperature stability: ±0.075ppm max, 0 to +60°C ±0.15ppm max, -20 to +70°C ±0.25ppm max, -40 to +85°C	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	A B C
Operable temperature range: -40 to +85°C	<input checked="" type="checkbox"/>	
Storage temperature range: -65 to +125°C	<input checked="" type="checkbox"/>	
Output waveform: Clipped sine, 1 ~ 2V p-p Harmonics -10dBc max Spurious -70dBc max	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Test load: 1 kΩ // 5pF (±10%)	<input checked="" type="checkbox"/>	
Frequency adjustment: Control voltage (pin 1) ±4ppm min, 0.5V ~ 5.0V Variable resistor (pins 1 to 7) ±4ppm min, 0 ~ 10kΩ	<input type="checkbox"/> <input type="checkbox"/>	V5 R1
Supply voltage (V_{DD}): +5.0V (±0.2V)	<input checked="" type="checkbox"/>	
Input current: 70mA max @ +30°C 110mA max @ -20°C	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Warm up: within spec after 30s @ 0°C current 250mA max during 10s	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Phase noise: < -80dBc/Hz @ 1Hz < -110dBc/Hz @ 10Hz < -135dBc/Hz @ 100Hz < -145dBc/Hz @ 1kHz	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Shock & vibration: 2,000G, 0.3ms ½-sine 10.0 ~ 2,000Hz, 10G	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	

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

Ordering Information

Product name +model code (if standard) + frequency
eg: MCOCXOVS-AR1 10.0MHz

MCOCXOVS-BV5 16.384MHz

Option code X (eg MCOCXOVS/X) denotes a custom spec.

♦ Other combinations of calibration and temperature stability/range are available.