

PIN	CONNECTION
1	Freq adjustment
7	Ground
8	Output
14	Supply

Features

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

Specifications

Parameters	Product	Option Codes
	MCOXOWS	
Frequency range: 10.0 ~ 54.0MHz	■	
Frequency stability: ±0.7ppm max first year ±4ppm max in 10 years ±0.1ppm over $V_{DD} \pm 0.15V$ ±0.01ppm over 10% change in load	■ ■ ■ ■	
Short term stability: 5×10^{-10} , 0.1 to 30s 5×10^{-11} over 1s typ	■ ■	
Temperature stability: ±0.075ppm max, 0 to +60°C ±0.15ppm max, -20 to +70°C ±0.25ppm max, -40 to +85°C	□ □ □	A B 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) ±4ppm min, 0V ~ 3.3V Variable resistor (pins 1 to 7) ±4ppm min, 0 ~ 10kΩ	□ □	V3 R1
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 Formed leads SMD	■ □ □	D1 D2

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

Ordering Information

Product name + option codes + frequency

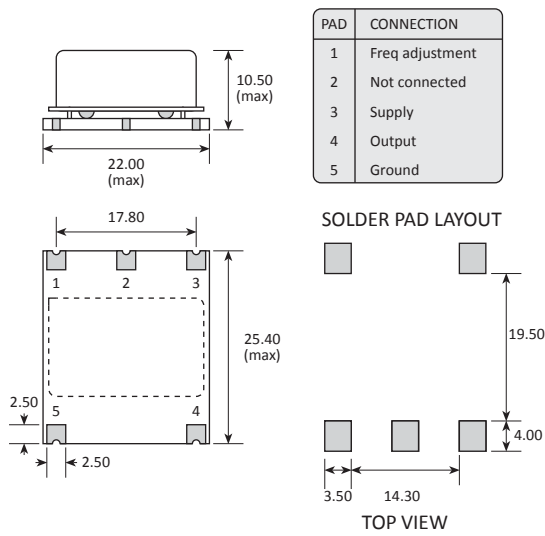
eg: **MCOXOWS-AR1 10.0MHz**

MCOXOWS-BV3 16.384MHz

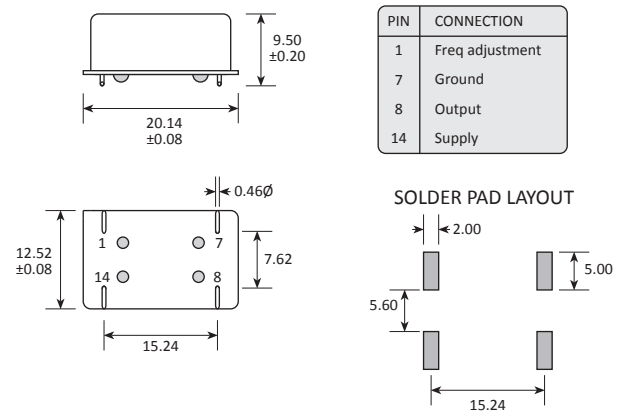
Option code X (eg MCOXOWS/X) denotes a custom spec.

◆ Product is NOT designed to withstand 260°C reflow processing

Option D1



Option D2



Soldering Profile

