

PIN	CONNECTION
1	Freq adjustment
7	Ground
8	Output
14	Supply

## Features

- ▶ Compact 14-pin DIL package (SMD optional)
- ▶ 5.0V 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	Option Codes
	MCOXOVS	
<b>Frequency range:</b> 10.0 ~ 54.0MHz	■	
<b>Frequency stability:</b> ±0.7ppm max first year ±4ppm max in 10 years ±0.1ppm over V <sub>DD</sub> ±0.2V ±0.01ppm over 10% change in load	■ ■ ■ ■	
<b>Short term stability:</b> 5x10 <sup>-10</sup> , 0.1 to 30s 5x10 <sup>-11</sup> over 1s typ	■ ■	
<b>Temperature stability:</b> ±0.075ppm max, 0 to +60°C ±0.15ppm max, -20 to +70°C ±0.25ppm max, -40 to +85°C	□ □ □	A B C
<b>Operable temperature range:</b> -40 to +85°C	■	
<b>Storage temperature range:</b> -65 to +125°C	■	
<b>Output waveform:</b> Sinewave from 50Ω Harmonics < -10dBc Spurii < -70dBc	■	
<b>Level:</b> ≥ 4dBm / 50Ω (≤20MHz) ≥ 0dBm / 50Ω (>20MHz)	■ ■	
<b>Frequency adjustment:</b> Control voltage (pin 1) ±4ppm min, 0.5V ~ 5.0V Variable resistor (pins 1 to 7) ±4ppm min, 0 ~ 10kΩ	□ □	V5 R1
<b>Supply voltage (V<sub>DD</sub>):</b> +5.0V (±0.2V)	■	
<b>Input current:</b> 80mA max @ +30°C 120mA max @ -20°C	■ ■	
<b>Warm up:</b> within spec after 30s @ 0°C current 250mA max during 10s	■ ■	
<b>Phase noise (typ @ 10MHz):</b> -110dBc/Hz @ 10Hz -135dBc/Hz @ 100Hz -145dBc/Hz @ 1kHz -150dBc/Hz @ 10kHz	■ ■ ■ ■	
<b>Shock &amp; vibration:</b> 2,000G, 0.3ms ½-sine 10.0 ~ 2,000Hz, 10G	■ ■	
<b>Package:</b> 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

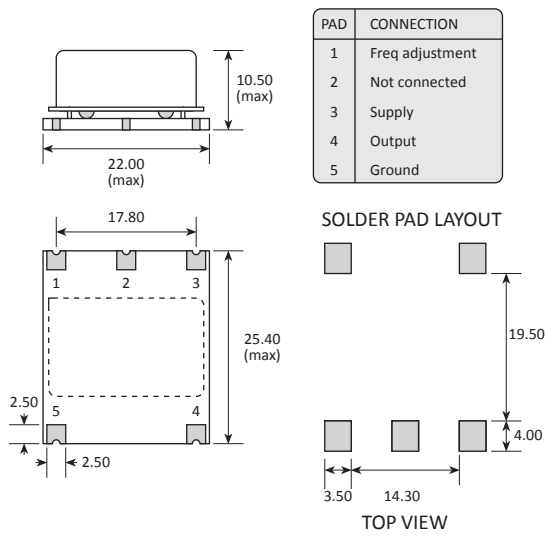
eg: **MCOXOVS-AR1 10.0MHz**

**MCOXOVS-BV5 16.384MHz**

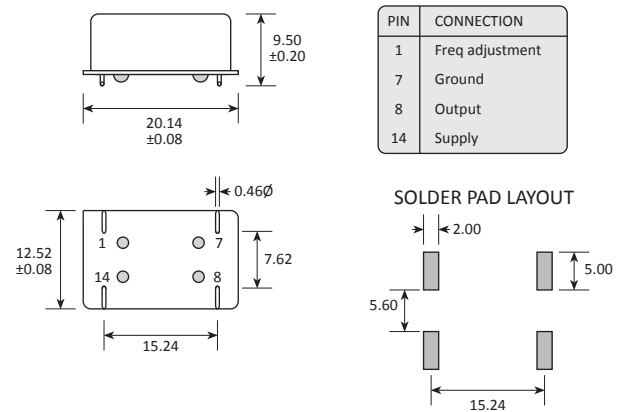
Option code X (eg MCOXOVS/X) denotes a custom spec.

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

## Option D1



## Option D2



## Soldering Profile

