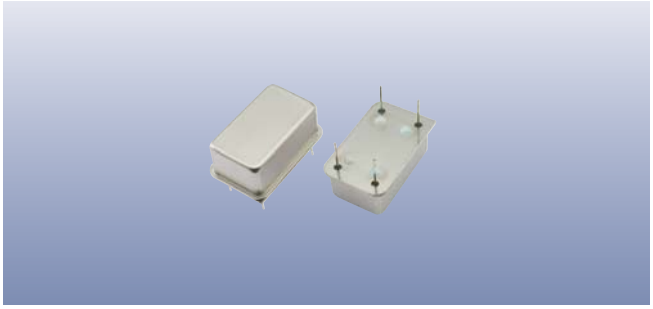
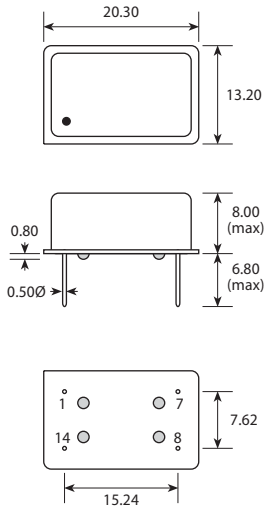
12V OCXO Sine Output 14-pin DIL

MCOCXOS





PIN	CONNECTION
1	Freq adjustment
7	Ground
8	Output
14	Supply

Scale 1:1

Features

- **Compact 14-pin DIL package**
- **12.0V 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 MCOCXOS	Option Codes
Frequency range: 10.0 ~ 20.0MHz	■	
Frequency stability:		
±0.7ppm max first year	■	
±4ppm max in 10 years	■	
±0.1ppm over V_{DD} ±0.5V	■	
±0.01ppm over 10% change in load	■	
Short term stability:		
$5x10^{-10}$, 0.1 to 30s	■	
$5x10^{-11}$ over 1s typ	■	
Temperature stability:		
±0.05ppm max, 0 to +60°C	□	A
±0.1ppm max, -20 to +70°C	□	B
±0.2ppm max, -40 to +85°C	□	C
Operable temperature range:		
-40 to +85°C	■	
Storage temperature range:		
-65 to +125°C	■	
Output waveform:		
Clipped sine, 1 ~ 2V p-p	■	
Harmonics -10dBc	■	
Spurious -70dBc	■	
Test load: 1 kΩ // 5pF (±10%)	■	
Frequency adjustment:		
Control voltage (pin 1)	□	V5
±4ppm min, 2.5V ±2.5V		
'Variable resistor (pins 1 to 7)	□	R1
±4ppm min, 0 ~ 10kΩ		
Supply voltage (V_{DD}):		
+12.0V (±0.5V)	■	
Input current: 25mA max @ +30°C	■	
40mA max @ -20°C	■	
Warm up:		
within spec after 30s @ 0°C	■	
current 250mA max during 10s	■	
Phase noise (typ @ 10MHz):		
-70dBc/Hz @ 1Hz	■	
-100dBc/Hz @ 10Hz	■	
-130dBc/Hz @ 100Hz	■	
-140dBc/Hz @ 1kHz	■	
Shock & vibration:		
2,000G, 0.3ms ½-sine	■	
10.0 ~ 2,000Hz, 10G	■	

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

Ordering Information

Product name +model code (if standard) + frequency
eg: **MCOCXOS-AR1 12.80MHz**
MCOCXOS-BV5 19.44MHz
Option code X (eg MCOCXOS/X) denotes a custom spec.

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

Tel: **+44 1460 256 100** Fax: **+44 1460 256 101** E-mail: **sales@golledge.com** Web: **www.golledge.com**

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