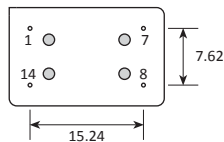
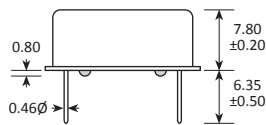


Pin	CONNECTION
1	Freq adjustment or Ground
7	Ground
8	Output
14	Supply



Features

- ▶ **Compact 14-pin DIL package (SMD optional)**
- ▶ **12.0V supply voltage**
- ▶ **CMOS compatible output**
- ▶ **Very fast warmup**
- ▶ **Low power consumption**
- ▶ **Wide temperature range available**

Ordering Information

Product name + option codes + frequency
 eg: **MCOCXO/AR1 10.0MHz** 0.2ppm 0~60°C
MCOCXO/TBV5 16.0MHz 0.1ppm -20~70°C
 Option code X (eg MCOCXO/X) denotes a custom spec.

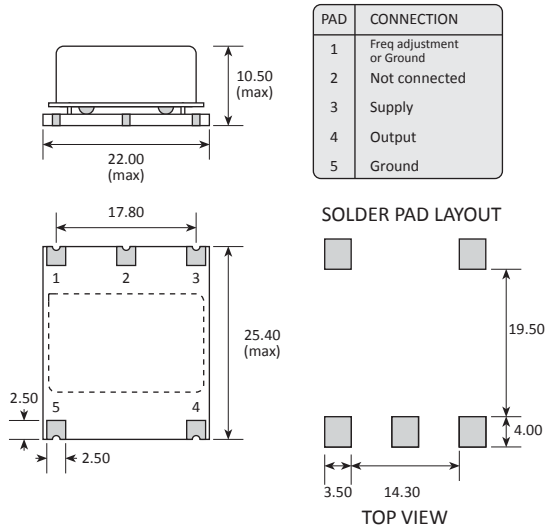
◆ Product is NOT designed to withstand 260°C reflow processing

Specifications

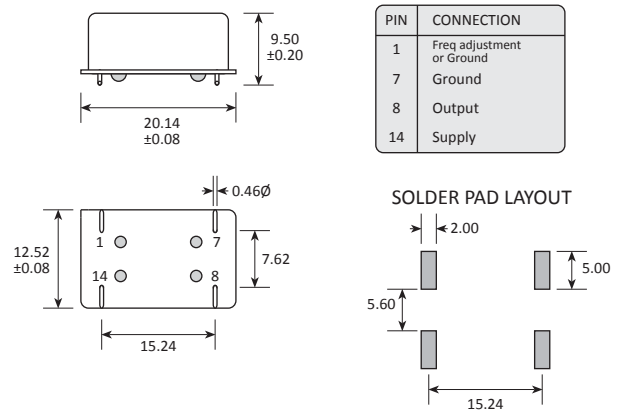
Parameters	Product	Option Codes
	MCOCXO	
Frequency range: 10.0kHz ~ 54.0MHz	■	
Frequency stability: ±0.5ppm max first year ±3.0ppm max in 10 years ±0.1ppm over V_{DD} ±0.5V ±0.01ppm over 10% change in load	■ ■ ■ ■	
Short term stability: 5×10^{-10} , τ 0.1 to 30s 5×10^{-11} typ at 1s	■ ■	
Temperature stability: ±0.2ppm max, 0 to +60°C ±0.05ppm max, 0 to +60°C ±0.3ppm max, -20 to +70°C ±0.1ppm max, -20 to +70°C ±0.5ppm max, -40 to +85°C ±0.2ppm max, -40 to +85°C ±0.7ppm max, -55 to +85°C ±0.3ppm max, -55 to +85°C	□ □ □ □ □ □ □ □	A TA B TB C TC E TE
Storage temperature range: -55 to +125°C	■	
Output waveform: CMOS compatible '0' = +0.4V max, '1' = 4.5V min 40:60 max Rise/fall times 7ns max (no load)	■ ■ ■ ■	
Load: 3pF min, 47pF max	■	
Start up time: 5ms max	■	
Frequency adjustment: ±3.0ppm min Control voltage 0.5~5.0V, pin 1 Variable resistor 0~10kΩ, pins 1 to 7 None (int accuracy ±1.0ppm) None (int accuracy ±0.5ppm)	■ □ □ □ □	V5 R1 A B
Supply voltage (V_{DD}): +12.0V (±0.5V)	■	
Input current: 50mA max @ +25°C 80mA max @ -20°C	■ ■	
Warm up time (secs): current 250mA max @ 25°C to within ±0.1ppm @ 25°C	10 30	
Phase noise (typ @ 10MHz): -90dBc/Hz @ 10Hz -120dBc/Hz @ 100Hz -130dBc/Hz @ 1kHz -135dBc/Hz @ 10kHz	■ ■ ■ ■	
Shock & vibration: 5,000G, 0.3ms ½-sine 10.0 ~ 2,000Hz, 20G	■ ■	
Package: Through hole 14 pin DIL SMD options 1 or 2	■ □	specify

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

Option D1



Option D2



Soldering Profile

