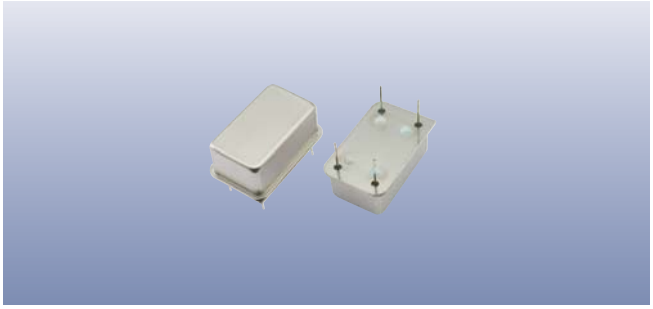
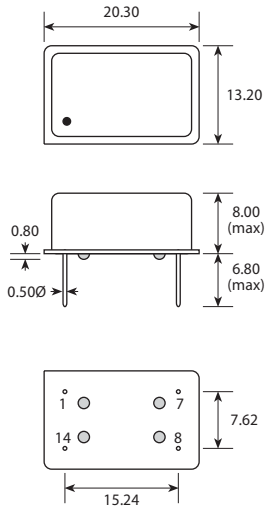
5V OCXO HCMOS Output 14-pin DIL

MCOCXOV





PIN	CONNECTION
1	Freq adjustment
7	Ground
8	Output
14	Supply

Scale 1:1

Features

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

Standard Frequencies

Frequencies in MHz	
10.00000	19.44000
12.80000	20.00000
16.00000	40.00000
16.38400	

Specifications

Parameters	Product MCOCXOV	Option Codes
Frequency range:		
10.0kHz ~ 40.0MHz	■	
Frequency stability:		
±0.7ppm max first year	■	
±4ppm max in 10 years	■	
±0.1ppm over V_{DD} ±0.2V	■	
±0.01ppm over 10% change in load	■	
Short term stability:		
$5x10^{-10}$, 0.1 to 30s	■	
$5x10^{-11}$ over 1s typ	■	
Temperature stability:		
±0.2ppm max, 0 to +60°C	□	A
±0.075ppm max, 0 to +60°C	□	TA
±0.3ppm max, -20 to +70°C	□	B
±0.15ppm max, -20 to +70°C	□	TB
±0.5ppm max, -40 to +85°C	□	C
±0.25ppm max, -40 to +85°C	□	TC
Operable temperature range:		
-40 to +85°C	■	
Storage temperature range:		
-65 to +125°C	■	
Output waveform:		
HCMOS compatible	■	
'0'=+0.4V max, '1'=V_{DD}-0.5V min	■	
40:60 max	■	
Rise / fall times: 7ns / 7ns max	■	
Frequency adjustment:		
Control voltage (pin 1)	□	V5
±4ppm min, 0.5V ~ 5.0V		
'Variable resistor (pins 1 to 7)	□	R1
±4ppm min, 0 ~ 10kΩ		
Supply voltage (V_{DD}):		
+5.0V (±0.2V)	■	
Input current: 70mA max @ +30°C	■	
110mA 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: **MCOCXOV-AR1 12.80MHz**

MCOCXOV-TBV5 16.3840MHz

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

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

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