

OCXO2014L

OCXO in DIL14 Package with Sine wave Output

Features and Benefits

Sine wave output
Frequency Tuning Input
2 minutes max warm-up
20.7x13.1x8.5mm max

Description

OCXO2014L is 2 minutes max fast warm-up OCXO with Sine wave output

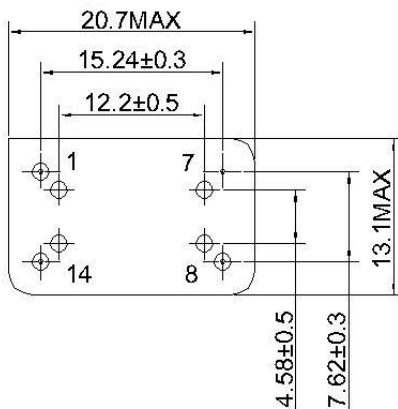
Typical Applications

Signal Analyzer Reference for internal synthesizers
Harsh Environment Applications

Mechanical Drawing & Pin Connections

Drawing No: MD140072-1

Bottom View

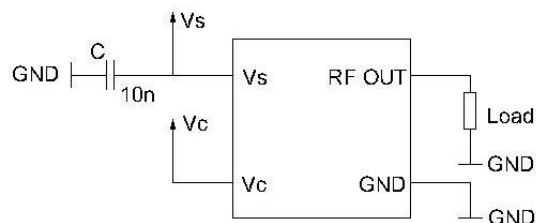
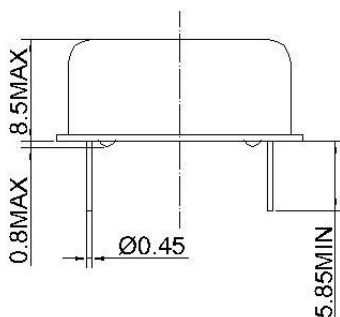


Pin Connections:

| PIN # | Symbol | CONNECTION |
|-------|--------|----------------------|
| 1 | Vc | Control Voltage(EFC) |
| 7 | GND | Ground |
| 8 | RF OUT | RF Output |
| 14 | Vs | Supply Voltage |

Unit : mm

Side View



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Specifications

| OCXO Specification | Sym | Condition | Value | | | Unit | Note |
|---------------------------------------|--|--|------------------------------|--------|--------|------|---|
| | | | Min. | Typ. | Max. | | |
| Frequency Range | F ₀ | | 10 | | 125 | MHz | |
| Standard Frequencies | | | 10.000/20.000/80.000/100.000 | | | MHz | |
| RF Output | | | | | | | |
| Output Waveform | | | Sine wave | | | | |
| Load | | +/-10% | | 50 | | Ohm | |
| Output Level | | | +3 | | | dBm | |
| Harmonics | | | | | -25 | dBc | |
| Power Supply | | | | | | | |
| Voltage | V _{cc} | | 3.15 | 3.3 | 3.45 | V | Optional |
| | | | 4.75 | 5.0 | 5.25 | | |
| | | | 11.4 | 12.0 | 12.6 | | |
| Current Consumption(Steady State) | I _{Steady} | @ V _{cc} =3.3V | | | 300 | mA | Optional |
| | | @ V _{cc} =5V | | | 200 | | |
| | | @ V _{cc} =12V | | | 100 | | |
| Current Consumption(Warm-up) | I _{Warm-up} | @ V _{cc} =3.3V | | | 700 | mA | Optional |
| | | @ V _{cc} =5V | | | 500 | | |
| | | @ V _{cc} =12V | | | 200 | | |
| Warm-up Time@+25°C | | Δf _{final} /f ₀ <+/-0.1ppm | | | 2 | min | |
| Frequency Control* | | | | | | | |
| Electronic Frequency Control(EFC) | | For AT-Cut | +/-2 | | +/-5 | ppm | Optional |
| | | For SC-Cut | +/-1 | | | | |
| EFC Voltage | V _c | @ V _{cc} =3.3V | 0.15 | 1.65 | 3.15 | V | Optional |
| | | @ V _{cc} =5V or 12V | 0.25 | 2.50 | 4.75 | V | |
| EFC Input Impedance | | | 100 | | | Kohm | |
| EFC Slope | Δf/V _c | | Positive | | | | |
| Frequency Stability | | | | | | | |
| Initial Tolerance @+25°C | | V _c @ Centre value | | | +/-500 | ppb | |
| Vs. Operating Temperature Range | | Steady state | | | +/-10 | ppb | For more information, Please consult sale |
| Vs. Supply Voltage Variation(Pushing) | | Vs+/-5% | | | +/-10 | ppb | |
| Vs. Load Change(Pulling) | | Load+/-10% | | | +/-20 | ppb | |
| Aging | Long Term Per Day (After 30 Days Operation) | For AT-Cut | | | +/-10 | ppb | Optional |
| | | For SC-Cut | | | +/-2 | | |
| | Long Term 1 st Year (After 30 Days Operation) | For AT-Cut | | +/-300 | +/-500 | ppb | Optional |
| | | For SC-Cut | | +/-100 | +/-200 | | |
| Phase Noise | | | | | | | |
| Consult Sale | | | | | | | |
| Environmental | | | | | | | |
| Packing | Palette or tube | | | | | | |
| Size | 20.7x13.1x8.5mm max | | | | | | |
| Weight | 5g max | | | | | | |