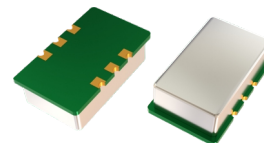


# 14.3 x9.3 mm Oven Controlled Crystal Oscillator

## Feature

- Dimension 14.3 x 9.3 x 6.5 mm typical
- 6-PIN SMD package
- Frequency Range , 10 MHz to 40MHz
- $\pm 30$  ppb stability over -40 to +85 °C
- Stratum 3 (Overall  $\pm 4.6$  ppm including 20 years aging.)



## Electrical Specifications

| Parameter                                           |                                | Min.        | Type              | Max.  | Unit   |     |
|-----------------------------------------------------|--------------------------------|-------------|-------------------|-------|--------|-----|
| OUTPUT (PIN = “R.F. OUTPUT”)                        |                                |             |                   |       |        |     |
| Frequency                                           |                                | 10          |                   | 40    | MHz    |     |
| Output Level:<br>HCMOS                              | Output High                    | 2.4         |                   |       | V      |     |
|                                                     | Output Low                     |             |                   | 0.4   | V      |     |
| Waveform:                                           |                                | Rectangular |                   |       |        |     |
| Load                                                |                                | 15          |                   |       | pF     |     |
| Duty(Rectangular)                                   |                                | 45          | 50                | 55    | %      |     |
| Frequency stability                                 |                                |             |                   |       |        |     |
| Frequency stability                                 | Ambient (-20~+70°C /-40~+85°C) |             | ±10,±20, ±30, ±50 |       | ppb    |     |
|                                                     | Daily                          |             | -2.0              |       | +2.0   | ppb |
|                                                     | Yearly                         |             | -0.4              |       | +0.4   | ppm |
|                                                     | 10 Years                       |             | -2.0              |       | +2.0   | ppm |
|                                                     | Voltage(±5% change)            |             | -5.0              |       | +5.0   | ppb |
|                                                     | Load(±5% change)               |             | -10.0             |       | +10.0  | ppb |
|                                                     | Warm-up                        |             | -0.1              |       | +0.1   | ppm |
| Phase Noise                                         | 10Hz                           |             | -98               | -92   | dBc/Hz |     |
|                                                     | 100Hz                          |             | -126              | -120  |        |     |
|                                                     | 1KHz                           |             | -145              | -140  |        |     |
|                                                     | 10KHz                          |             | -152              | -150  |        |     |
| ELECTRICAL FREQUENCY ADJUSTMENT (PIN = “VCO INPUT”) |                                |             |                   |       |        |     |
| Tuning Range                                        | VCO @ 0 V                      |             |                   | -5.0  | ppm    |     |
|                                                     | VCO @ 3.3V                     |             | +5.0              |       | ppm    |     |
| Control Voltage                                     |                                | 0           | 1.65              | 3.3   | V      |     |
| INPUT POWER (PIN = “+VDC”)                          |                                |             |                   |       |        |     |
| Voltage                                             |                                | 3.135       | 3.3               | 3.465 | V      |     |
| Current                                             |                                |             | 500               | 600   | mA     |     |
| Steady State                                        |                                |             | 0.5               | 0.6   | W      |     |
| Storage Temperature                                 |                                | -55         |                   | +125  | °C     |     |

## Dimension(mm)

## Solder Pad Layout(mm)

