

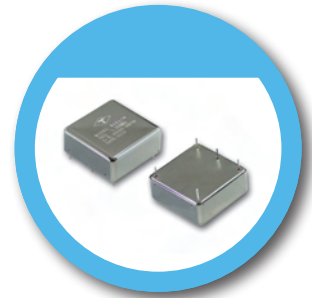
50.8 x 50.8 mm Oven Controlled Crystal Oscillator – NB Type

FEATURE

- Dimension 50.8x50.8x17.3 mm typical.
- SC Cut Crystal.
- Stratum 3E Performance.
- High stability ; Low Phase Noise.
- Packing: 16pcs/Box, 5Box/Carton , 90 pcs/Carton.

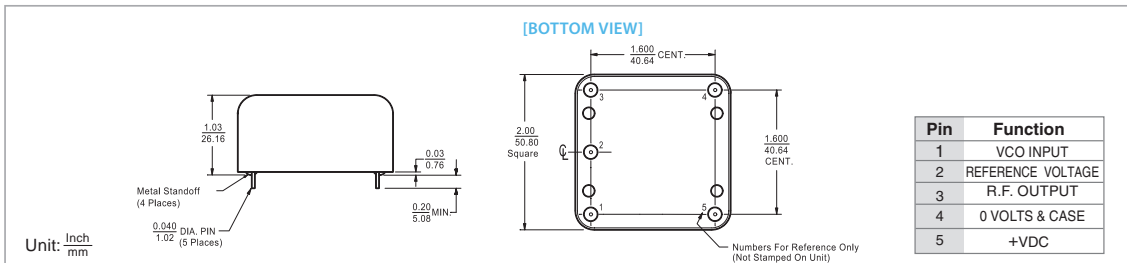
TYPICAL APPLICATION

- SDH/SONET, Telecommunication base station
- Test and measurement equipment
- Aerospace
- Synthesizer, Digital switch, Reference Timing Circuit



RoHS Compliant Standard

DIMENSION



ELECTRICAL SPECIFICATION

| Parameter | Min. | Nominal | Max. | Unit | Test Condition | |
|--|----------------------------------|---------|-----------|------------|----------------|---|
| Output | Frequency | 5.0 | | MHz | | |
| | Wave Form | | Sine Wave | | | |
| | Level | 6.0 | 8.0 | 10.0 | dBm | |
| | Load | | 50 | | Ω | |
| | Harmonics Spurious | | -30 | -60 | dBc | |
| Frequency Stability | Ambient | | | ± 10 | ppb | Referenced to +25°C |
| | Operating Temperature | -30 | | +70 | °C | |
| | Aging | | | | | |
| | At time of shipment | | | ± 0.5 | ppb | After 30 days |
| | After indefinite storage - Daily | | | ± 0.5 | | |
| | - Yearly | | | ± 50 | | |
| | - 10 years | | | ± 150 | | |
| | Voltage | | | ± 2 | dBc | ±5% Change In 10 minutes @ +25°C (Referenced to 30Minutes) |
| | Warm-up | | | ± 10 | | |
| | Phase Noise @5 MHz | | | -130 | | |
| | | | -145 | | @ 10Hz | |
| | | | -150 | | @ 100Hz | |
| | | | -150 | | @ 1KHz | |
| | | | -150 | | @ 10KHz | |
| Electrical Frequency Adjustment | Range | 0.2 | | 0.4 | ±ppm | |
| | Control | 0.0 | | 5.0 | V | |
| | Slope | | Positive | | | |
| | Center | 2.0 | 2.5 | 3.0 | V | Control Voltage at which nominal Frequency occurs at time of shipment |
| | Input impedance | 100 | | | K Ω | |
| Input Power | Voltage | 11.4 | 12.0 | 12.6 | V | |
| | Current | | | 6.0 | W | @ turn on |
| | Steady state | | | 2.0 | | @ 25°C |
| Reference Voltage | Voltage | 4.75 | 5.0 | 5.25 | V | |
| | Load | 9.0 | | ∞ | K Ω | |
| | Temperature Stability | | | ± 0.01 | VDC | |

Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position.

*All aging stabilities are after storage of up to 1 year and apply after 30 days of continuous operation.

The daily aging rate also applies at the time of shipment from factory.

*The Electrical Frequency Adjustment Range is sufficient for the life of the oscillator. Specification subject to change with frequency.

Available Frequency Range: 5MHz to 80 MHz including 5.0, 10.0, 16.384, 19.44, 24.576 and 32.768 MHz.

FREQ. STABILITY vs. TEMP. RANGE

| Temp. (°C) | ppb | ±2 | ±5 |
|------------|-----|----|----|
| 0 ~ +55 | | ○ | ○ |
| 0 ~ +70 | | △ | ○ |
| -30 ~ +70 | | × | ○ |

* ○: Available △: Conditional X: Not available