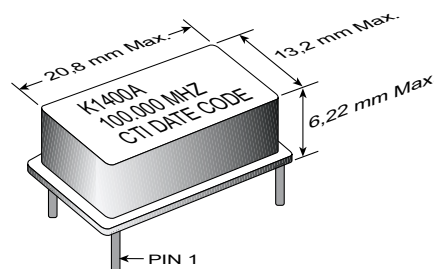


- True Sinewave Output Clock Oscillator
- Discrete Frequencies to 140MHz
- Low Harmonic Signal Source
- Standard Metal DIL Package
- $\pm 100$ ppm Standard
- $\pm 50$ ppm Stability Available - K1450A
- $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$  Operating Temperature



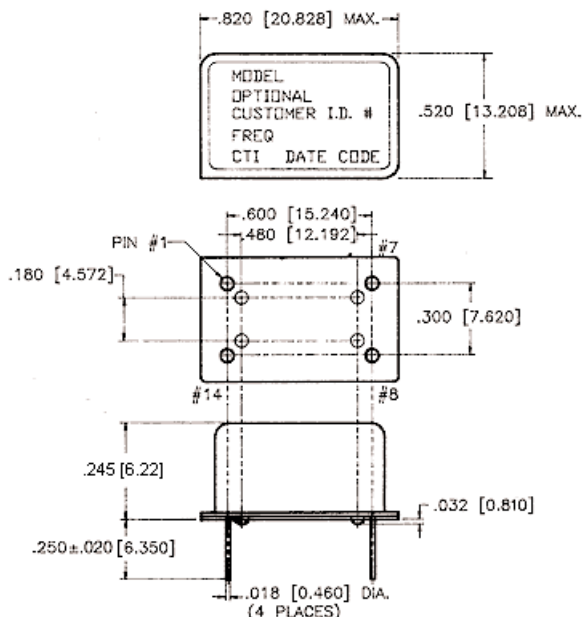
### ELECTRICAL SPECIFICATIONS

| MODEL                     | K1400A                                                                        |
|---------------------------|-------------------------------------------------------------------------------|
| Frequency Range (MHz)     | Discrete Frequencies to 140MHz                                                |
| Frequency Stability (ppm) |                                                                               |
| Overall                   | Inclusive of calibration, temperature, voltage, load, shock, vibration, aging |
| 0°C to 70°C               | $\pm 50$ , $\pm 100$                                                          |
| Temperature Range (°C)    |                                                                               |
| Operating                 | $-40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$                                |
| Storage                   | $-55^{\circ}\text{C}$ to $+125^{\circ}\text{C}$                               |
| Supply Voltage (V)        | $+5.0 \pm 5\%$                                                                |
| Supply Current (mA)       | $< 25$                                                                        |
| Load                      | $50\Omega$                                                                    |
| Output Signal             | Sinewave                                                                      |
| Output Level              | $\pm 3\text{dBm}$                                                             |
| Output Harmonics          | $< -20\text{dBC}$ 2nd and Above                                               |

### PART NUMBERING GUIDE

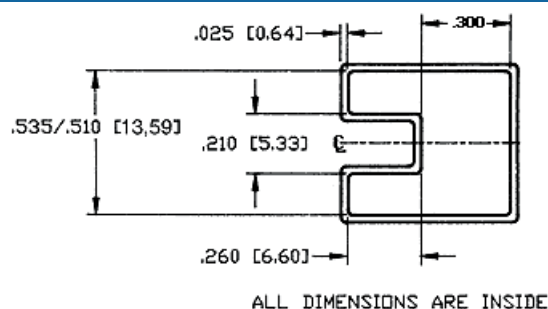
**K14XXAX** - Specify Frequency

- “Blank” =  $0^{\circ}\text{C}$  to  $70^{\circ}\text{C}$  Operating Temperature
- “M” =  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$  Operating Temperature
- “00” =  $\pm 100$  Stability
- “50” =  $\pm 50$ ppm Stability (Available only  $0^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ )



| PIN | FUNCTION         |
|-----|------------------|
| 1   | N/C              |
| 2   | Ground           |
| 3   | Output           |
| 4   | +V <sub>CC</sub> |

#### SHIPPING TUBE CROSS SECTION



#### MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

| TEST METHODS            | REFERENCE PROCEDURES                 | DESCRIPTION                                            |
|-------------------------|--------------------------------------|--------------------------------------------------------|
| Temperature Cycle       | MIL-STD-833, Mtd 1010, Cond. B       | -55°C to +125°C; Air-to-Air; 100 cycles; 10 min. dwell |
| Mechanical Shock        | MIL-STD-883, Mtd 2002, Cond. B       | 1500 g's                                               |
| Vibration               | MIL-STD 883, Mtd 2007, Cond. B       | 20-2000 Hz; 0.06 inch; 15g's; 3 planes                 |
| Humidity Steady State   | MIL-STD-202, Mtd 103                 | 40°C; 90%-95% R.H.; 56 days                            |
| Thermal Shock           | MIL-STD-883, Mtd 1011.7 Cond. B      | 100°C to 0°C; Water-to-Water; 15 cycles                |
| Electrostatic Discharge | MIL-STD-883, Mtd 3015 Class II       | 2 KV to 4 KV Threshold                                 |
| Solderability           | MIL-STD-883, Mtd 2022.2              | Solder dip; Meniscograph Criteria                      |
| Hermeticity             | MIL-STD-883, Mtd 1014.8, Cond. A1    | Mass spectro. 2 x 10 <sup>-8</sup> atmos. CC/sec He    |
| Resistance to Soldering | MIL-STD-202, Mtd 210D, Cond. J       | 235°C; 30 seconds                                      |
| Lead Integrity          | MIL-STD-883, Mtd 2004.5, Cond. A, B1 | Lead tension & bend stress                             |
| Marking Permanence      | MIL-STD-883, Mtd 2015.8              | Resistance to solvents                                 |
| Life Test               | MIL-STD-883, Mtd 1005.6              | 125°C, powered, 1000 hours minimum                     |