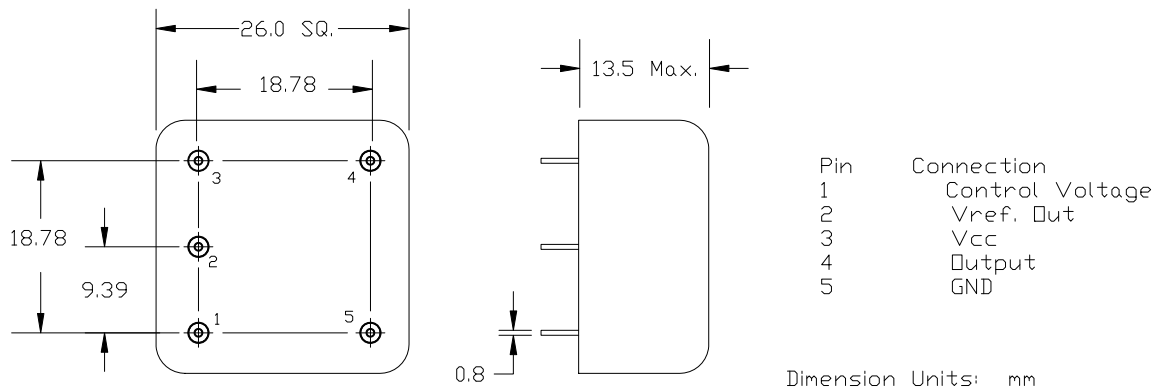




Leaded Oscillator, OCXO  
Metal Package, 26 mm X 26 mm

I408 Series

|                              |   |  |                 |
|------------------------------|---|--|-----------------|
| Frequency                    | 1.000 MHz to 150.000 MHz                          |  |                 |
| Output Level                 | TTL   | HC-MOS                                 | Sine            |
| Level                        | '0' = 0.4 VDC Max., '1' = 2.4 VDC Min.            | '0' = 0.1 Vcc Max., '1' = 4.5 VDC Min. | +4 dBm, ± 3 dBm |
| Duty Cycle                   | Specify 50% ± 10% or ± 5% See Table               |  | N.A.            |
| Rise / Fall Time             | 10 nS Max. @ Fo < 16 MHz, 5 nS Max. @ Fo > 16 MHz |  | N.A.            |
| Output Load                  | 5 TTL   | See Table                              | 50 Ohms         |
| Supply Voltage               | 5.0 VDC ± 5%                                      |  |                 |
| Current (Warm Up)            | 600 mA Max.                                       |  |                 |
| Current @ +25° C             | 250 mA @ 5 VDC                                    |  |                 |
| Control Voltage ("V" option) | 2.5 VDC ± 2.0 VDC, ±8 ppm Min. for AT cut         |  |                 |
| Slope                        | Positive  |  |                 |
| Temperature                  |   |  |                 |
| Operating                    | See Operating Temperature Table                   |  |                 |
| Storage                      | -40° C to +85° C                                  |  |                 |
| Environmental                | See Appendix B for information                    |  |                 |
| Package Information          | MSL = N.A., Termination = e1                      |  |                 |



| Part Number Guide |               | Sample Part Number: I408 - 5151YVA - 20.000 MHz |                       |                          |                    |                 |             |              |
|-------------------|---------------|---|-----------------------|--------------------------|--------------------|-----------------|-------------|--------------|
| Package           | Input Voltage | Operating Temperature                           | Symmetry (Duty Cycle) | Output                   | Stability (in ppm) | Voltage Control | Crystal Cut | Frequency    |
| I408 -            | 5 = 5.0 V     | 7 = 0° C to +50° C                              | 5 = 45 / 55 Max.      | 1 = 10TTL / 15 pF HC-MOS | Y = ±0.5           | V = Controlled  | A = AT      | - 20.000 MHz |
|                   | 9 = 12 V      | 1 = 0° C to +70° C                              | 6 = 40 / 60 Max.      | 3 = 15 pF HC-MOS         | 1 = ±0.25          | F = Fixed       | S = SC      |              |
|                   | 3 = 3.3V      | 6 = -10° C to +70° C                            |                       | 6 = 30 pF                | 2 = ±0.1           |                 |             |              |
|                   |               | 3 = -20° C to +70° C                            |                       | A = Sine                 | 3 = ±0.05 *        |                 |             |              |
|                   |               |   |                       |                          | 5 = ±0.015 *       |                 |             |              |

NOTE: A 0.01 µF bypass capacitor is recommended between Vcc (pin 4) and Gnd (pin 2) to minimize power supply noise.

\* - Not available for all temperature ranges.