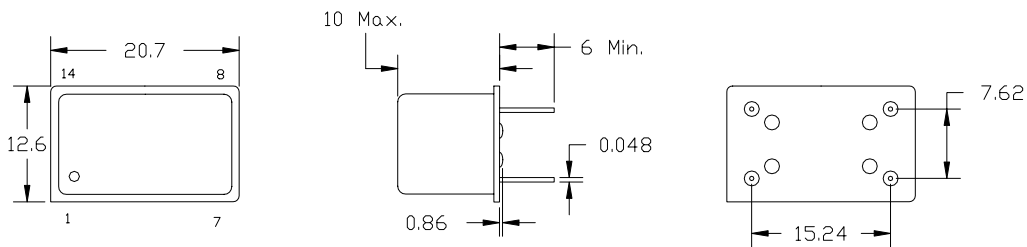




Leaded Oscillator, OCXO
Metal Package, Full Size DIP

I401 Series

| | | |
|------------------------------|--|--|
| Frequency | 1.000 MHz to 50.000 MHz | |
| Output Level | TTL | HC-MOS |
| Level | '0' = 0.4 VDC Max., '1' = 2.4 VDC Min. | '0' = 0.1 Vcc Max., '1' = 4.5 VDC Min. |
| Duty Cycle | Specify 50% ± 10% or ± 5% See Table | |
| Rise / Fall Time | 10 nS Max. | |
| Output Load | 5 TTL | See Table |
| Supply Voltage | See Supply Voltage Table | |
| Current (Warm Up) | 400 mA @ 5 VDC, 170 mA @ 12 VDC Max. | |
| Current @ +25° C | 120 mA @ 5 VDC, 60 mA @ 12 VDC Typ. | |
| Control Voltage ("V" option) | 2.5 VDC ± 2.0 VDC, ±8 ppm Min. | |
| Slope | Positive | |
| Temperature | | |
| Operating | See Operating Temperature Table | |
| Storage | -40° C to +85° C | |
| Environmental | See Appendix B for information | |
| RoHS | MSL = N.A., Termination = e1 | |



| | |
|-----|-----------------|
| Pin | Connection |
| 1 | Control Voltage |
| 2 | GND |
| 3 | Output |
| 4 | Vcc |

Dimension Units: mm

| Part Number Guide | | Sample Part Number: I401 - 5151YV - 20.000 MHz | | | | | |
|-------------------|---------------|--|-----------------------|--------------------------|--------------------|-----------------|--------------|
| Package | Input Voltage | Operating Temperature | Symmetry (Duty Cycle) | Output | Stability (in ppm) | Voltage Control | Frequency |
| I401 - | 5 = 5.0V | 7 = 0° C to +50° C | 5 = 45 / 55 Max. | 1 = 10TTL / 15 pF HC-MOS | N = ±1.0 | V = Controlled | - 20.000 MHz |
| | 9 = 12V | 1 = 0° C to +70° C | 6 = 40 / 60 Max. | 3 = 15 pF HC-MOS | Y = ±0.5 | F = Fixed | |
| | | 6 = -10° C to +70° C | | 6 = 30 pF | 1 = ±0.25 | | |
| | | 3 = -20° C to +70° C | | 4 = AC-MOS | 2 = ±0.1 | | |
| | | | | | 3 = ±0.05 * | | |

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.