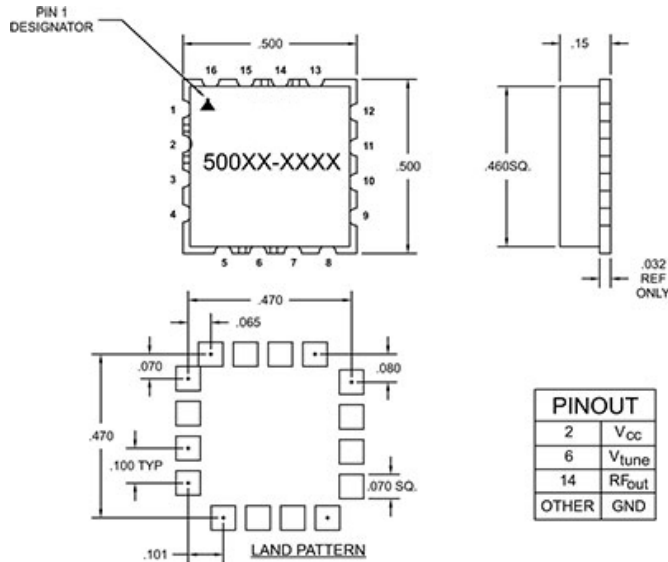


# MW500-1397

## 1500 MHz to 1510 MHz

### VOLTAGE CONTROLLED OSCILLATORS



## Specifications

|                      |                                                                     |
|----------------------|---------------------------------------------------------------------|
| Frequency            | 1500 MHz to 1510 MHz                                                |
| Tuning Voltage       | 0.5/2.5 V                                                           |
| Power Output         | 4 +/- 2 dBm                                                         |
| Phase Noise          | 10 kHz Offset -103 (typ) dBc/Hz<br>100 kHz Offset -123 (typ) dBc/Hz |
| Frequency Pushing    | 2 MHz/V                                                             |
| Frequency Pulling    | 5 MHz                                                               |
| Harmonic Suppression | -12 (MAX)                                                           |

## Operating Specifications

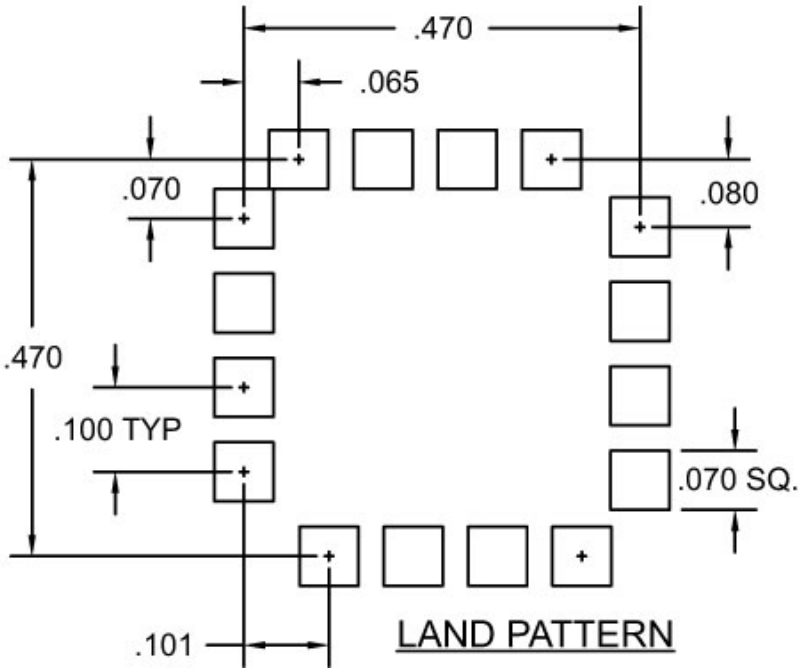
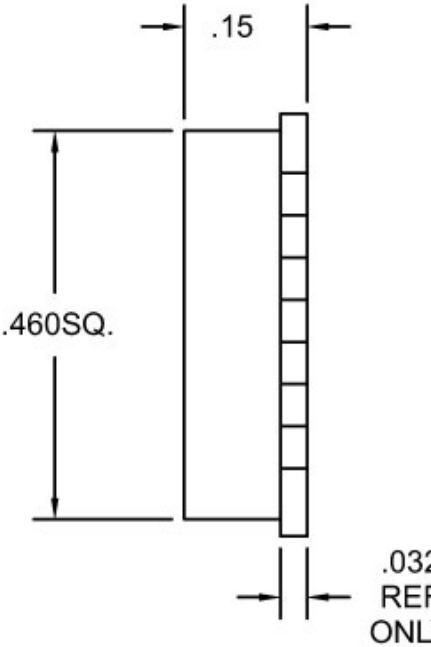
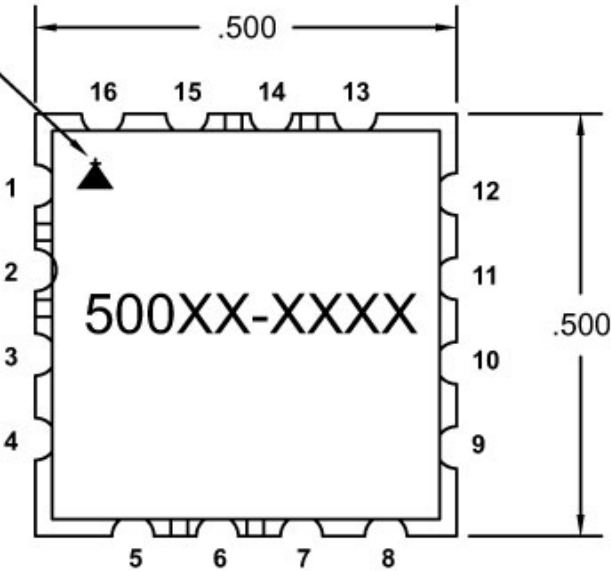
|                       |                   |
|-----------------------|-------------------|
| Supply Voltage        | 3 V <sub>cc</sub> |
| Supply Current        | 35 mA             |
| Load Impedance        | 50                |
| Operating Temperature | -40 to 80 °C      |

## Notes



MERCURY COMMERCIAL ELECTRONICS

PIN 1  
DESIGNATOR



| PINOUT |            |
|--------|------------|
| 2      | $V_{cc}$   |
| 6      | $V_{tune}$ |
| 14     | $RF_{out}$ |
| OTHER  | GND        |