

# MW500-1298

## 700 MHz to 1400 MHz

### VOLTAGE CONTROLLED OSCILLATORS



## Specifications

|                      |                                                                    |
|----------------------|--------------------------------------------------------------------|
| Frequency            | 700 MHz to 1400 MHz                                                |
| Tuning Voltage       | 2/14 V                                                             |
| Power Output         | 6 +/- 6.5 dBm                                                      |
| Phase Noise          | 10 kHz Offset -99 (typ) dBc/Hz<br>100 kHz Offset -121 (typ) dBc/Hz |
| Frequency Pushing    | 5 MHz/V                                                            |
| Frequency Pulling    | 15 MHz                                                             |
| Harmonic Suppression | -7 (MAX)                                                           |

## Operating Specifications

|                       |              |
|-----------------------|--------------|
| Supply Voltage        | 12 Vcc       |
| Supply Current        | 40 mA        |
| Load Impedance        | 50           |
| Operating Temperature | -20 to 70 °C |

## Notes



MERCURY COMMERCIAL ELECTRONICS

PIN 1  
DESIGNATOR



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