

- > Temperature Stability: $\pm 0.5 \text{ ppm} \sim \pm 2.0 \text{ ppm}$
- > Operating Temperature Range: $-30^\circ\text{C} \sim 85^\circ\text{C}$
- > Supply Voltage: $1.8 \text{ V} \sim 3.3 \text{ V}$
- > Voltage Control Function Available
- > World's Thinnest Package
- > Frequencies: 16.367667 MHz, 16.368 MHz, 16.369 MHz, 16.8 MHz, 19.2 MHz, 20 MHz, 26 MHz, 33.6 MHz, 38.4 MHz, 40 MHz
- > Applications: GPS, WiMAX, Cellular and Wireless Communications
- > RoHS Compliant / Pb Free

Item / Type		7L
Output Type		Clipped Sinewave
Output Load		10K Ω // 10 pF
Oscillation Mode		Fundamental
Supply Voltage		1.8 ~ 3.3 V
Frequency Range		13 ~ 50 MHz
Clipped Sinewave Output Voltage		0.8 Vp-p typical
Frequency Stability	Vs. Temperature (- 30 ~ + 85 °C)	± 0.5 ppm
	Vs. Load (Load varies ± 10 %)	± 0.2 ppm Max.
	Vs. Supply Voltage (Vcc = Typical ± 0.1 V)	± 0.2 ppm Max.
Frequency Tolerance	at 25 °C after 2 Reflows with Typical Applied to Auto Frequency Control Pin	± 2.5 ppm Max.
Slope of Frequency Drift		± 0.1 ppm / °C Typical ; ± 0.5 ppm / °C Max.
Storage Temperature Range		- 40 ~ + 85 °C
Auto Frequency Control (AFC) Range *		$\pm 7 \sim \pm 16$ ppm / V
Supply Current		2.0 mA Max.
Start-up Time		5 ms Max.
Harmonics		- 5 dBc Max.
Phase Noise at 1 KHz offset		- 130 dBc / Hz
Aging (at 25 °C)		± 1 ppm / year Max.

Oscillators

2.50 ± 0.15

6

5

4

2.00 ± 0.15

1

2

3

0.80 MAX.

1

2

3

0.70

0.65

0.70

6

5

4

0.35

0.65

0.50

0.65

0.35

Suggested Layout

0.50

0.55

0.70

0.55

0.50

0.825

0.65

0.825

4

Units:mm

57