

**AS9100 / ISO9001 Certified**

**ULTRA MINIATURE SMD**

### Features

- RoHS compliant, Tight Stability over Wide Temperature Range, 7 mm x 5 mm
- Voltage Control Option for Electric Frequency Adjustments
- Leadless Chip Carrier (LCC) Ultra Small Package, Industry de factor Standard Footprint
- Small Size, Low Profile, Light Weight and Low Power Consumption

### Specifications

Frequency Range	10 MHz to 27 MHz
Standard Frequency	12.6/12.8/13.0/14.4/14.85/16.8/19.2/19.44/19.68/19.8 MHz
Input Voltage (Vcc)	5.0 V $\pm$ 5%; 3.3V $\pm$ 5%; 3.0V $\pm$ 5%; 2.8V $\pm$ 5%
Input Current	2.0 mA Maximum at 3 V (25°C)
Frequency Stability vs. Temperature	$\pm$ 1.5 ppm; $\pm$ 2 ppm; $\pm$ 2.5 ppm; $\pm$ 5 ppm;
Temperature Range	0° C to 70° C; -40° C to 85° C; 0° C to 50° C; -30° C to 75° C
Standard Stability	$\pm$ 2.5 ppm / -30°C to 75°C
Frequency vs. Voltage	$\pm$ 0.2 ppm maximum / V $\pm$ 5%
Frequency vs. Load	$\pm$ 0.2 ppm maximum / 10 kOhms or 10 pF $\pm$ 10%
Aging	$\pm$ 1 ppm Maximum per year at 25°C
Output Load	10 kOhms or 10 pF $\pm$ 10%
Output Waveform	Clipped Sine wave
Output Level	1.0Vp-p minimum for Vcc=5.0V; 0.8Vp-p minimum for Vcc=3.3V
Controllable Frequency Option	$\pm$ 10 ppm Minimum over control voltage range
Control Voltage (Vc)	2.5 $\pm$ 2.0 VDC for Vcc = 5 VDC; 1.65 $\pm$ 1.5 VDC for Vcc = 3.3 VDC
Setability of Vc at Fnom, 25°C	2.5 $\pm$ 0.5 V DC for 5.0V part; 1.65 $\pm$ 0.4 VDC for 3.3V part

