

## AS9100 / ISO9001 Certified

### Features

- RoHS Compliant, Tight Stability over Wide Temperature Range
- Available with both Voltage Control for Electric Frequency Adjustments and Internal Trimmer
- Clipped Sinewave Output or HCMOS/TTL Compatible, Low Phase Noise
- Industry de factor Standard SMD Footprint

### Specifications

Frequency Range	8 MHz to 35 MHz
Supply Voltage (Vcc)	5 V $\pm$ 5%; 3.3 V $\pm$ 5%;
Input Current	3 mA maximum
Frequency Stability vs. Temperature	$\pm$ 1 ppm; $\pm$ 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
Frequency vs. Voltage	$\pm$ 0.3 ppm Maximum / Vcc $\pm$ 5%
Frequency vs. Load	$\pm$ 0.3 ppm Maximum / 10 kOhms/ 10 pF $\pm$ 10%
Aging	$\pm$ 1.0 ppm maximum per year at 25°C
Phase Noise	-145 dBc/Hz at 1kHz

### Electrical Tunning

Controllable Frequency Option	VI = Voltage control: $\pm$ 5 ppm minimum + Internal trimmer: $\pm$ 3 ppm minimum I = Internal trimmer only (no voltage control input): $\pm$ 3 ppm minimum
Control Voltage (Vc)	2.5 $\pm$ 2.0 V for Vcc = 5 V; 1.65 $\pm$ 1.5 V for Vcc = 3.3 V
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

### Sinewave Output

Output Load	10 kOhms
Output Waveform	Clipped sine wave
Output Level	1.0Vp-p minimum

### HCMOS/TTL Output

Output Load	10 TTL or 15 pF HCMOS maximum
Logic "1" / Logic "0" Level	TTL: 2.4V minimum / 0.4V maximum; HCMOS: 0.9Vcc minimum / 0.1Vcc maximum
Rise/Fall Time (Tr/Tf)	10 ns maximum
Duty Cycle	No tristate 60/40%; No tristate 55/45%; Tristate 55/45%

