

**AS9100 / ISO9001 Certified**

**ULTRA MINIATURE SMD**

### Features

- RoHS compliant, Tight Stability ( $\pm 0.5$  ppm) over Wide Temperature Range, 2.5 mm x 2.0 mm x 0.9 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 52 MHz
Input Voltage (Vcc)	1.7 V to 3.3 V;
Input Current	1.5 mA maximum (at Vcc = 1.8 V, 10 kOhms/10 pF)
Frequency Tolerance	$\pm 1.0$ ppm maximum at 25°C
Frequency Stability vs. Temperature	$\pm 0.5$ ppm / -30°C to 85°C, at Vc = 0.9 V
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	$\pm 1.0$ ppm maximum per year at 25°C
Output Load	10 kOhms or 10 pF $\pm 10\%$
Output Waveform	Clipped sine wave
Output Level	0.8Vp-p minimum
Start-up Time	4 ms (Typical)
Control Voltage (Vc, Option)	+0.9 $\pm$ 0.6 VDC
Controllable Frequency	$\pm 3$ to $\pm 5$ ppm over control voltage range, positive slope

### SSB Phase Noise (Typical)

-110 dBc/Hz	100 Hz,
-130 dBc/Hz	1 kHz
-145 dBc/Hz	10 kHz
-145 dBc/Hz	100 kHz

