

AS9100 / ISO9001 Certified

Features

- RoHS Compliant, True Sine Wave, Clipped Sine Wave or HCMOS/TTL Compatible Square Wave Output
- Voltage Control Option for Electric Frequency Adjustments
- High Reliability with ASIC Circuit, Trimmerless, Reflow Soldering
- Low Phase Noise, Trimmerless, Reflow Soldering

Specifications

Frequency Range	1.25 MHz to 40 MHz
Supply Voltage (Vcc)	5 V $\pm$ 5%; 3.3 V $\pm$ 5%;
Input Current	30 mA maximum (HCMOS) ; 2.0 mA maximum (Sinewave)
Frequency Stability vs. Temperature	$\pm$ 2.5 ppm maximum / -30°C to 80°C
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	-140 dBc/Hz at 10 kHz

Electrical Tunning

Controllable Frequency Option	Voltage control option: $\pm$ 8 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 or 10 pF $\pm$ 10%
Output Waveform	Sine wave
Output Level	0.8 Vp-p minimum

HCMOS/TTL Output

Output Load	CMOS 15 pF
Logic "1" / Logic "0" Level	0.9Vcc minimum / 0.1 Vcc maximum
Rise/Fall Time (Tr/Tf)	10 ns maximum
Duty Cycle	Non-tristate 60/40%

