

# Sine Wave Generation Techniques

National Semiconductor  
Application Note 263  
March 1981



Sine Wave Generation Techniques

Producing and manipulating the sine wave function is a common problem encountered by circuit designers. Sine wave circuits pose a significant design challenge because they represent a constantly controlled linear oscillator. Sine wave circuitry is required in a number of diverse areas, including audio testing, calibration equipment, transducer drives, power conditioning and automatic test equipment (ATE). Control of frequency, amplitude or distortion level is often required and all three parameters must be simultaneously controlled in many applications.

A number of techniques utilizing both analog and digital approaches are available for a variety of applications. Each individual circuit approach has inherent strengths and weaknesses which must be matched against any given application (see table).

## PHASE SHIFT OSCILLATION

A simple inexpensive amplitude stabilized phase shift sine wave oscillator which requires one IC package, three transistors and runs off a single supply appears in Figure 1. Q2, in combination with the RC network comprises a phase

shift configuration and oscillates at about 12 kHz. The remaining circuitry provides amplitude stability. The high impedance output at Q2's collector is fed to the input of the LM386 via the 10  $\mu$ F-1M series network. The 1M resistor in combination with the internal 50 k $\Omega$  unit in the LM386 divides Q2's output by 20. This is necessary because the LM386 has a fixed gain of 20. In this manner the amplifier functions as a unity gain current buffer which will drive an 8 $\Omega$  load. The positive peaks at the amplifier output are rectified and stored in the 5  $\mu$ F capacitor. This potential is fed to the base of Q3. Q3's collector current will vary with the difference between its base and emitter voltages. Since the emitter voltage is fixed by the LM313 1.2V reference, Q3 performs a comparison function and its collector current modulates Q1's base voltage. Q1, an emitter follower, provides servo controlled drive to the Q2 oscillator. If the emitter of Q2 is opened up and driven by a control voltage, the amplitude of the circuit output may be varied. The LM386 output will drive 5V (1.75 Vrms) peak-to-peak into 8 $\Omega$  with about 2% distortion. A  $\pm$ 3V power supply variation causes less than  $\pm$ 0.1 dB amplitude shift at the output.

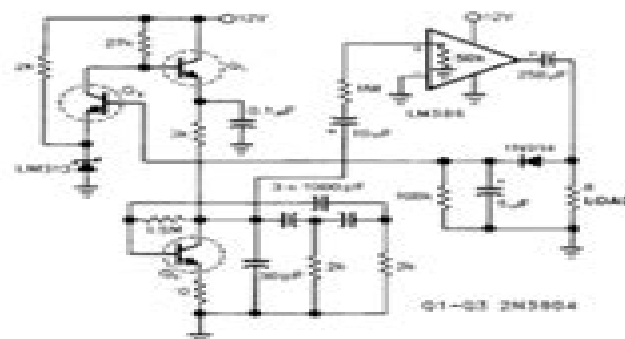


FIGURE 1. Phase-shift sine wave oscillators combine simplicity with versatility. This 12 kHz design can deliver 5 Vp-p to the 8 $\Omega$  load with about 2% distortion.

AN-263

# Sine Wave Generation Techniques

**O García**



## Sine Wave Generation Techniques:

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