

BIPOLAR STEPPER MOTORS APPLICATIONS

Bipolar stepper motors can be driven with one L6506 or L297, two full bridge BCD drivers and very few external components. Together these three chips form a complete microprocessor-to-stepper motor interface is realized.

As shown in Fig. 18 and Fig. 19, the controller connect directly to the two bridge BCD drivers. External component are minimalized: an R.C. network to set the chopper frequency, a resistive divider (R1; R2) to establish the comparator reference voltage and a snubber network made by R and C in series (See DC Motor Speed Control).

Figure 18: Two Phase Bipolar Stepper Motor Control Circuit with Chopper Current Control

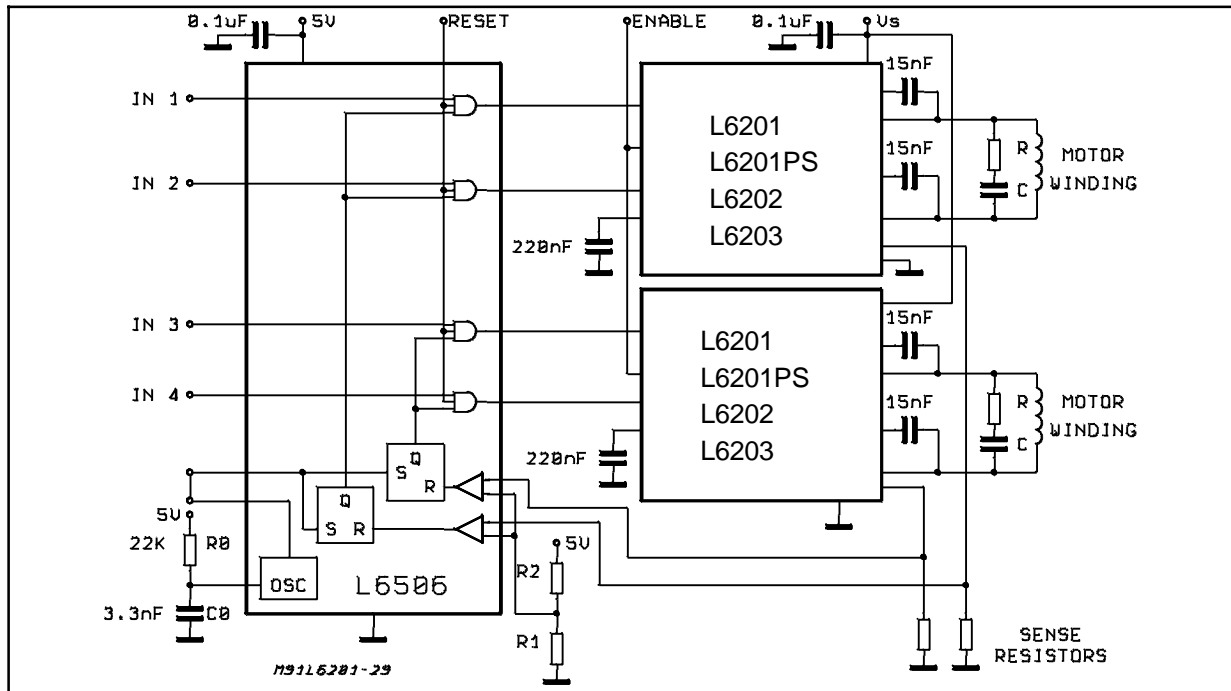


Figure 19: Two Phase Bipolar Stepper Motor Control Circuit with Chopper Current Control and Translator

