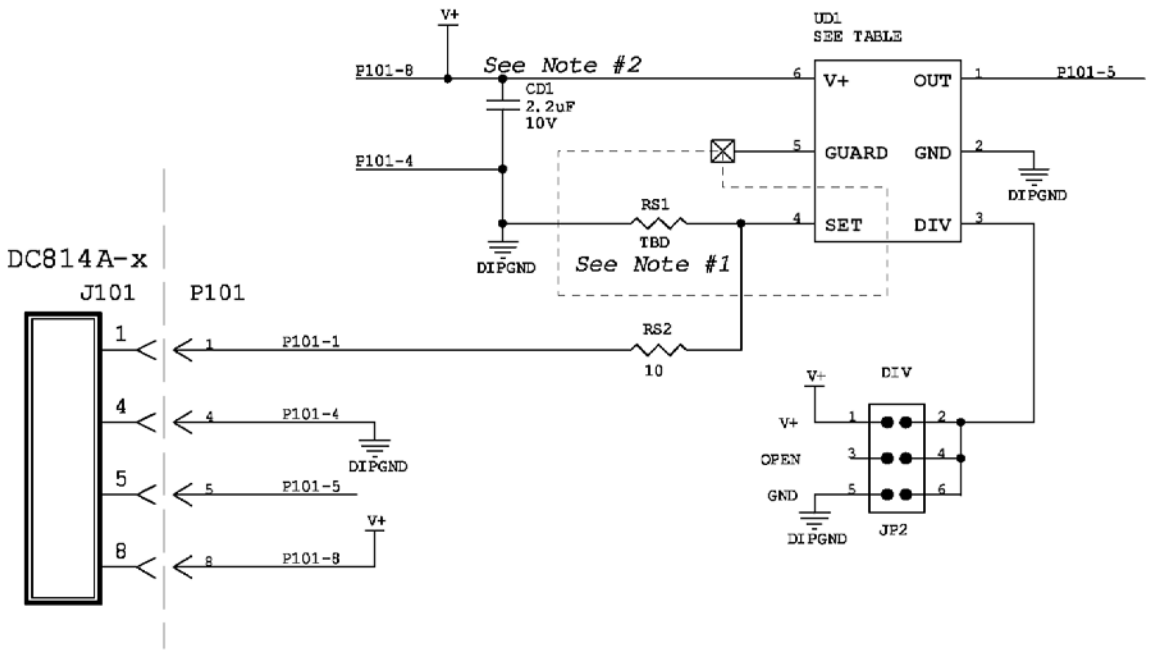
This circuit is proprietary to Linear Technology and supplied for use with Linear Technology parts.
Customer Notice: Linear Technology has made a best effort to design a circuit that meets customer-supplied specifications; however, it remains the customers responsibility to verify proper and reliable operation in the actual application, Component substitution and printed circuit board layout may significantly affect circuit performance or reliability. Contact Linear Applications Engineering for assistance.



NOTE 2. The 2.2uF power supply bypass capacitor is intentionally larger than a typical application requires. A typical application will have large, bulk bypass capacitors on the board in addition to a smaller (0.1uF) ceramic (or better) bypass capacitor placed directly at the part's supply pins. Demo boards go into unknown, prototyping environments where the wiring and distance from the power supply varies greatly. As a conservative measure, this demo board uses a large bypass capacitor. Consult the part's datasheet for more information on supply bypassing.

NOTE 1. If the DIP-8 Clock Board is used independently of the Clock Buffer Board then resistor RS1 must be installed on DC814C-H, or -I.
In addition, the RS2 resistor can be removed.
(RS2 is used only for connecting the DIP-8 Clock Board to the Clock Buffer Board potentiometer).

DC814C-H LTC6906 RS1=100/(Fosc·N) Fosc in MHz and RS1 in kΩ

N = 1, 0.1MHz ≤ fosc ≤ 1MHz (JP2 5-6)
N = 3, 33kHz ≤ fosc ≤ 333kHz (JP2 3-4)
N = 10, 10kHz ≤ fosc ≤ 100kHz (JP2 1-2)

DC814C-I LTC6907 RS1=200/(Fosc·N) Fosc in MHz and RS1 in kΩ

N = 1, 0.4MHz ≤ fosc ≤ 4MHz (JP2 5-6)
N = 3, 133kHz ≤ fosc ≤ 1.33MHz (JP2 3-4)
N = 10, 40 kHz ≤ fosc ≤ 400kHz (JP2 1-2)

DIP-8 Clock Assembly	UD1
DC814C-H	LTC6906CS6
DC814C-I	LTC6907CS6

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Title: DIP-8 Clock Board
Size | Document Number: Demo Circuit 814C-x | Rev: 2
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