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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 DC814B-A, -B or -C. In addition, the RS2 resistor can be removed for DC814A-A, -B and -C. RS1 is used only for connecting the DIP-8 Clock Board to the Clock Buffer Board potentiometer). RS2 for DC814B-D to G connects the output enable of an LTC6905-X IC). (the frequency programming resistor is internally connected in an LTC6905-X IC). (Output is Enabled with pin 1 floating or to V+ and Output is Off with 1 to ground).

- DC814B-A LTC6905 RS1=3370/(2Fosc-N-3)** Fosc in MHz and RS1 in kΩ
- N = 1, 69MHz ≤ fosc ≤ 170MHz (JP2 1-2)
 N = 2, 34MHz ≤ fosc ≤ 85MHz (JP2 3-4)
 N = 4, 17MHz ≤ fosc ≤ 42MHz (JP2 5-6)
- DC814B-B LTC1799 RS1=100/(Fosc-N)** Fosc in MHz and RS1 in kΩ
- N = 1, 0.1MHz ≤ fosc ≤ 33MHz (JP2 5-6)
 N = 10, 10kHz ≤ fosc ≤ 3.3MHz (JP2 3-4)
 N = 100, 1kHz ≤ fosc ≤ 330kHz (JP2 1-2)
- DC814B-C LTC6900 RS1=200/(Fosc-N)** Fosc in MHz and RS1 in kΩ
- N = 1, 0.1MHz ≤ fosc ≤ 20MHz (JP2 5-6)
 N = 10, 10kHz ≤ fosc ≤ 2MHz (JP2 3-4)
 N = 100, 1kHz ≤ fosc ≤ 200kHz (JP2 1-2)

DIP-8 Clock Assembly	UD1
DC814B-A	LTC6905CS5
DC814B-B	LTC1799CS5
DC814B-C	LTC6900CS5
DC814B-D	LTC6905CS5-133
DC814B-E	LTC6905CS5-100
DC814B-F	LTC6905CS5-96
DC814B-G	LTC6905CS5-80