

Apollo AGC Replica

Clock Board

Inputs

CON1 – Power

1. +12V
2. GND

CON2 – Clock Source Select

1. Select the 200Hz clock source (pull low)
2. GND
3. Select the 2MHz clock source (pull low)

CON3 – Control Signal inputs

1. CK_NPUR – Reset Line input from Monitor board
2. MCLK – Manual Clock input line from Monitor board
3. GND
4. FCLK – Clock Mode select line from Monitor board

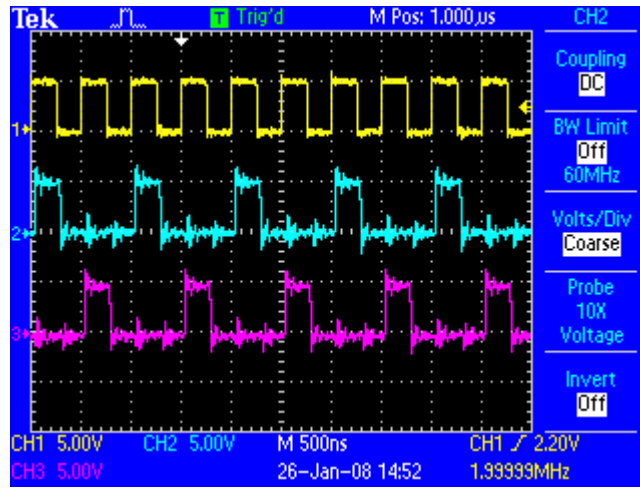
Outputs

CON4 – Clock Output signals

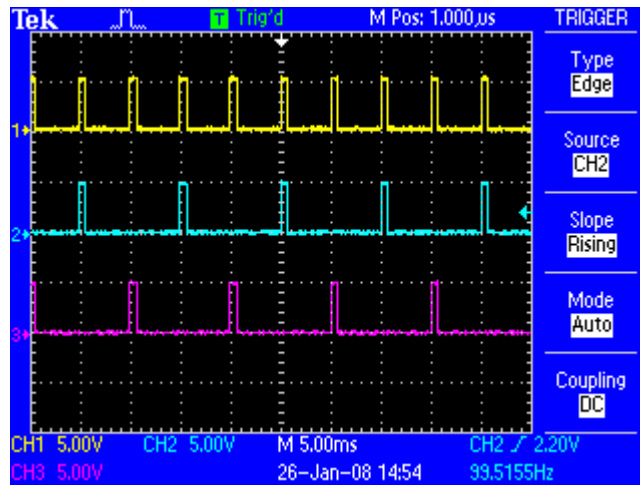
1. CLK1 – Clock output number 1
2. GND
3. CLK2 – Clock output number 2

CON5 – Clock Output LED connections

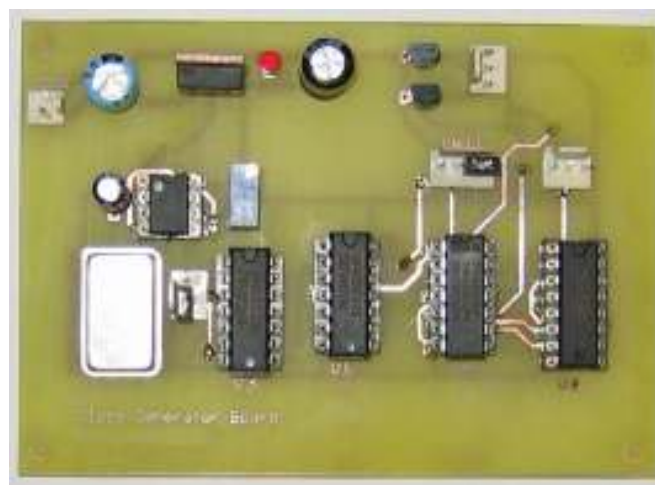
1. +5V supply for the LEDs
2. CLK1 – LED driver for Clock output number 1
3. CLK2 – LED driver for Clock output number 2



Picture 1 - The above picture shows the 2MHz clock (yellow trace) and the two clock board outputs CLK1 (blue trace) and CLK2 (Purple trace)



Picture 2 - The above picture shows the 200Hz clock (yellow trace) and the two clock board outputs CLK1 (blue trace) and CLK2 (Purple trace)



Picture 3 - The above picture is the completed and assembled Clock Generator PCB

Comments

The board you see completed in the picture 3 is the second revision. I didn't have much luck with the original 2MHz oscillator circuit by John Pultorak. I chose to replace the crystal oscillating circuit with a dedicated clock generator. I also chose to add the LED display drivers to this board as I wanted to keep all elements of the clock generator board together.

Jan 2008