Circuit Skills: LED Color Organ

Written By: Marc de Vinck

**SUMMARY**

Long before the dawn of digital music, folks employed the power of the electric color organ (aka “light organ”) to add some synced visuals to their hi-fi experience. Schematics for building such a beast based on AC power and incandescent bulbs can be be found fairly easily on the web, but plans for comparable LED-based designs seem a bit harder to come by.

Adapted from Aaron Cake’s 3 Channel Spectrum Analyzer, Collin built his own analog LED Color Organ to enhance the aural experience. The circuit uses 4 operational amplifiers plus ultra-bright 5mm LEDs to respond visually for bass, mid, and treble frequencies.
Step 1 — Circuit Skills: LED Color Organ

- The circuit uses 4 operational amplifiers plus ultra-bright 5mm LEDs to respond visually for bass, mid, and treble frequencies.

Step 2

- In order to simplify the construction process, Collin drew up and printed a label specifying the pinout for quad op amp ICs.