

6-Band Graphic Equalizer Project

Version 2006March20

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Bill of Materials

Resistors (1/4 watt rating)

1 – 100 ohm
 6 – 1k
 4 – 10k
 1 – 15k
 1 – 47k
 6 – 220k
 2 – 1M

1 – 0.0082uF film
 1 – 0.018uF film
 1 – 0.027uF film
 1 – 0.033uF film
 1 – 0.047uF film
 1 - 0.1uF film
 1 – 0.22uF film
 1 – 0.39uF film
 1 – 0.82uF film
 5 – 10uF aluminum electrolytic

Pots (1/4 watt or higher rating)

6 – 5k linear (EQ Band Controls)
 1 – 250k linear (Gain)

Other

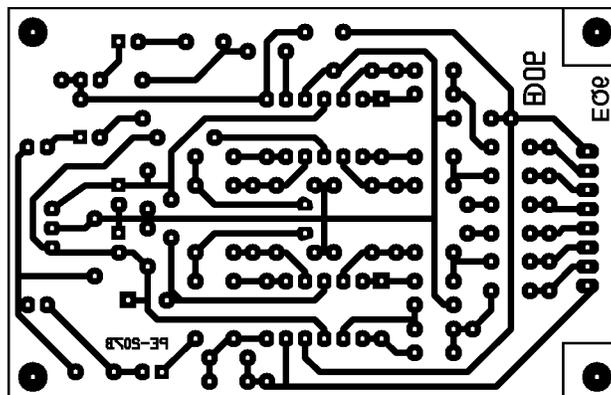
1-1N4005 diode
 1 – 3PDT or DPDT heavy duty foot switch (bypass)
 1 – mono quarter inch jack
 1 – stereo quarter inch jack
 9v battery snaps & holder and/or DC jack
 knobs, Copper-clad board, etchant, or perfboard
 24 gauge stranded wire
 Enclosure

ICs

2 – TL074

Capacitors (minimum 16 volt rating)

2 – 150pF film or ceramic
 1 – 0.001uF film
 1 – 0.0022uF film
 1 – 0.0039uF film



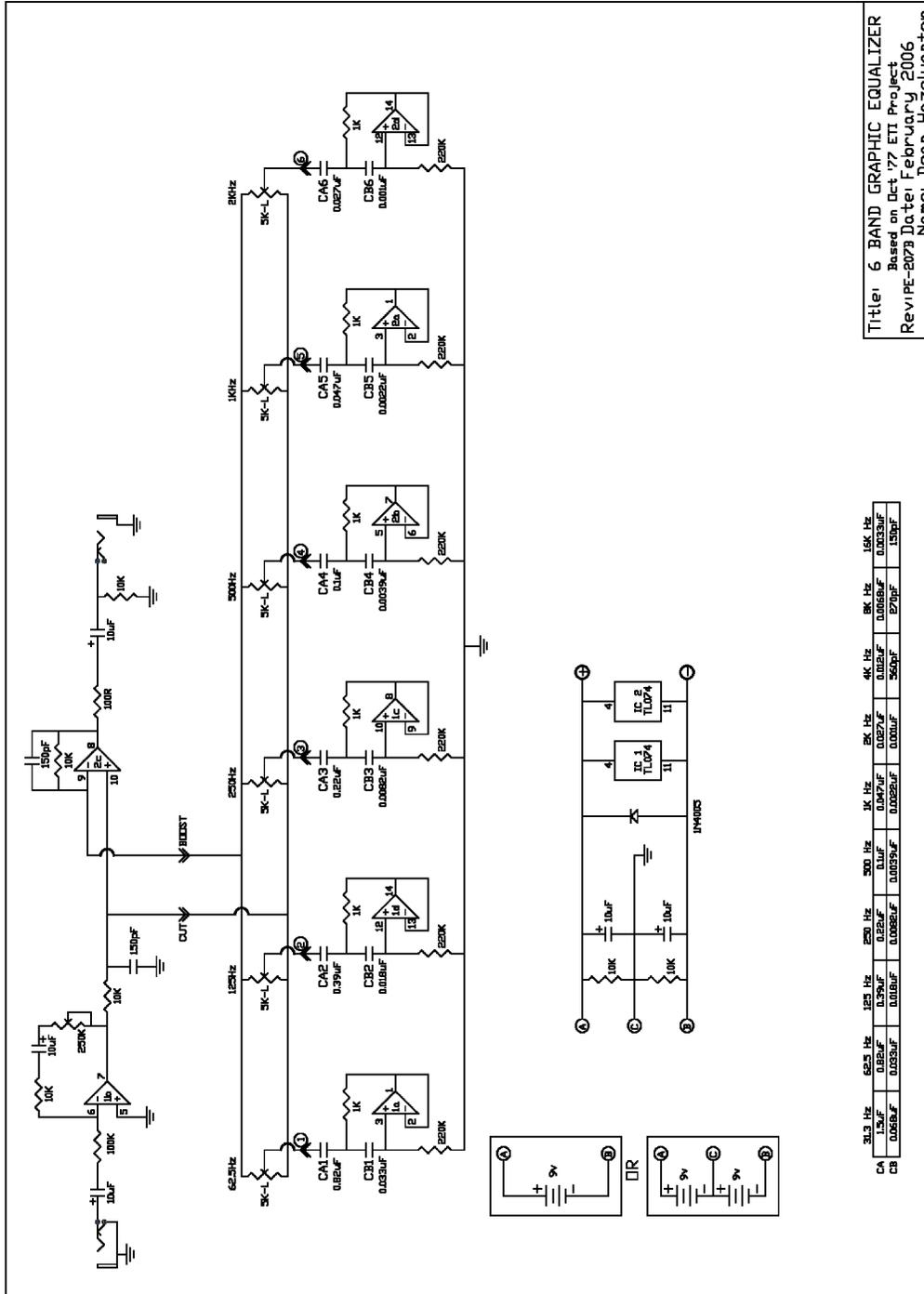
Box size 8.1cm x 5.2cm

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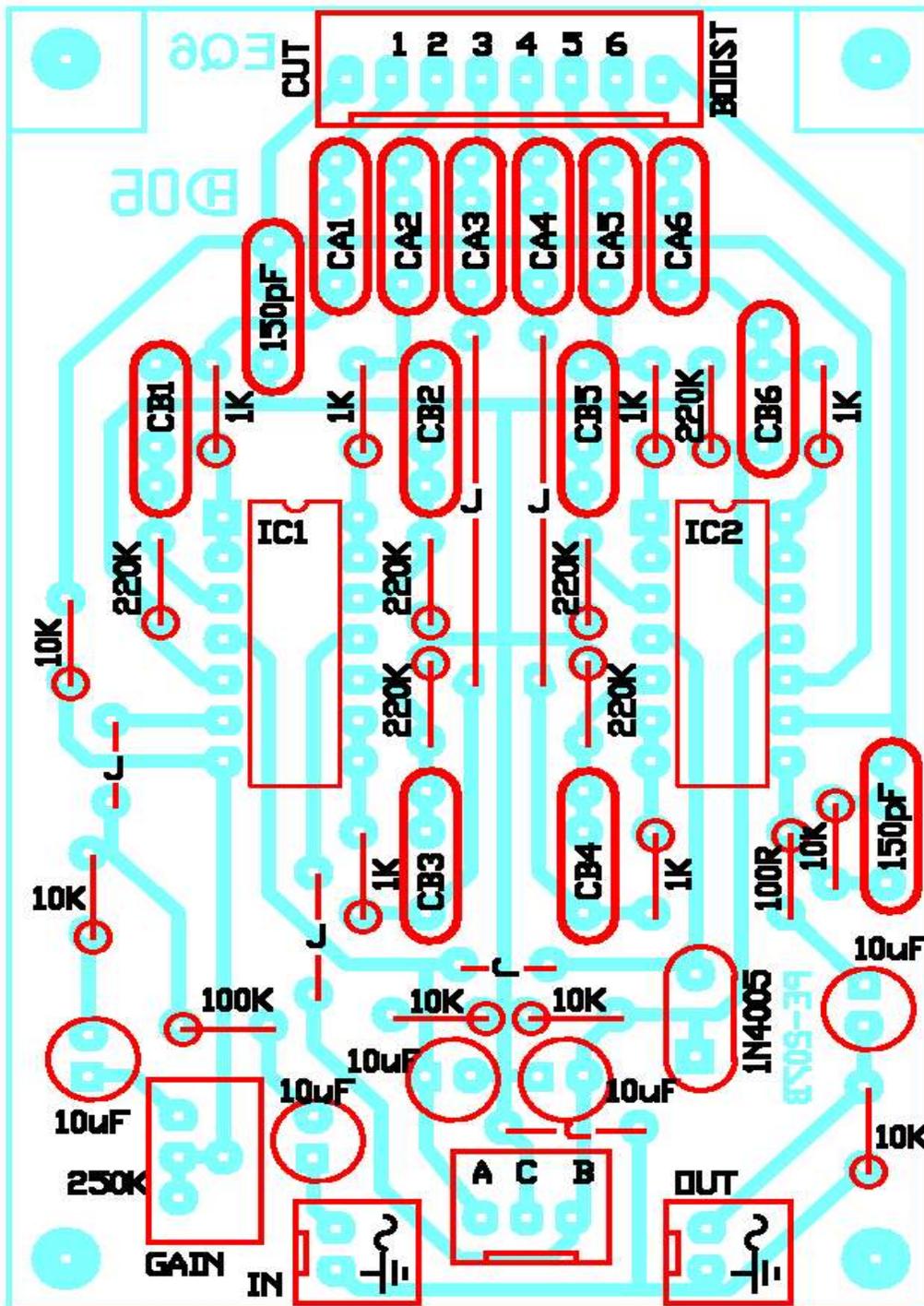


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Notes

- This project is based on a 10 band October 1977 project from ETI (Electronics Today International).
- The center frequency of each band is determined by 2 caps, CA and CB. The schematic shows a table with values of CA and CB for various the center frequencies.
- This layout is for a 6 band equalizer. If you want to have a 5 band EQ instead, just don't populate the CA, CB and pot positions for one of the channels. The first channel (62.5Hz) has very little effect with a 6 string, but would be more useful with a 7 string.
- This project can be powered with a single 9v battery. It is not recommended to power it with an AC adapter if that AC adapter also is powering other effects connected to this EQ. It can also be powered with a bi-polar (+/-) 9v supply for increased headroom. Refer to the schematic for power supply connection details.
- Current draw with a single 9v supply is 12.6 mA.