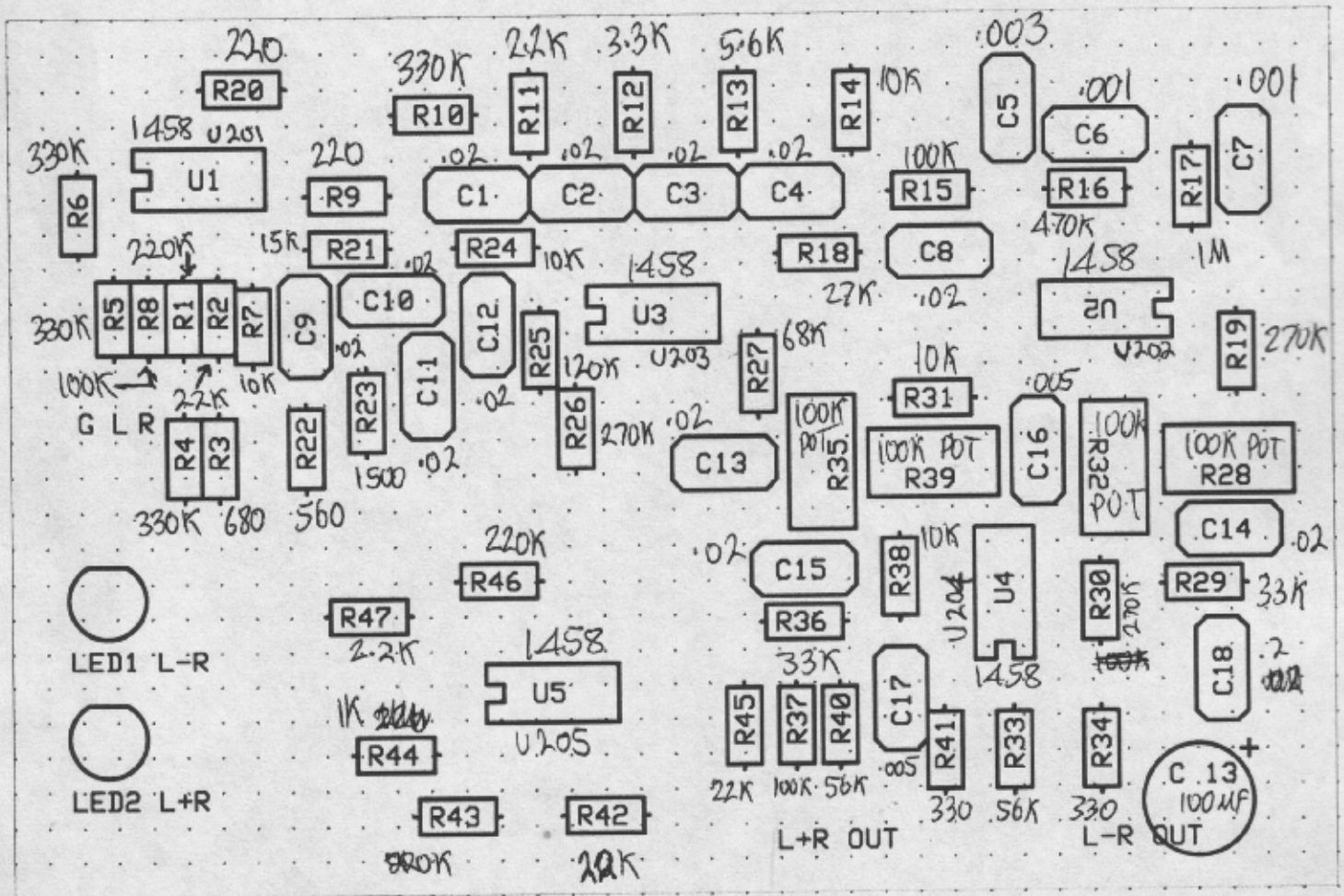


AUDIO MATRIX BOARD

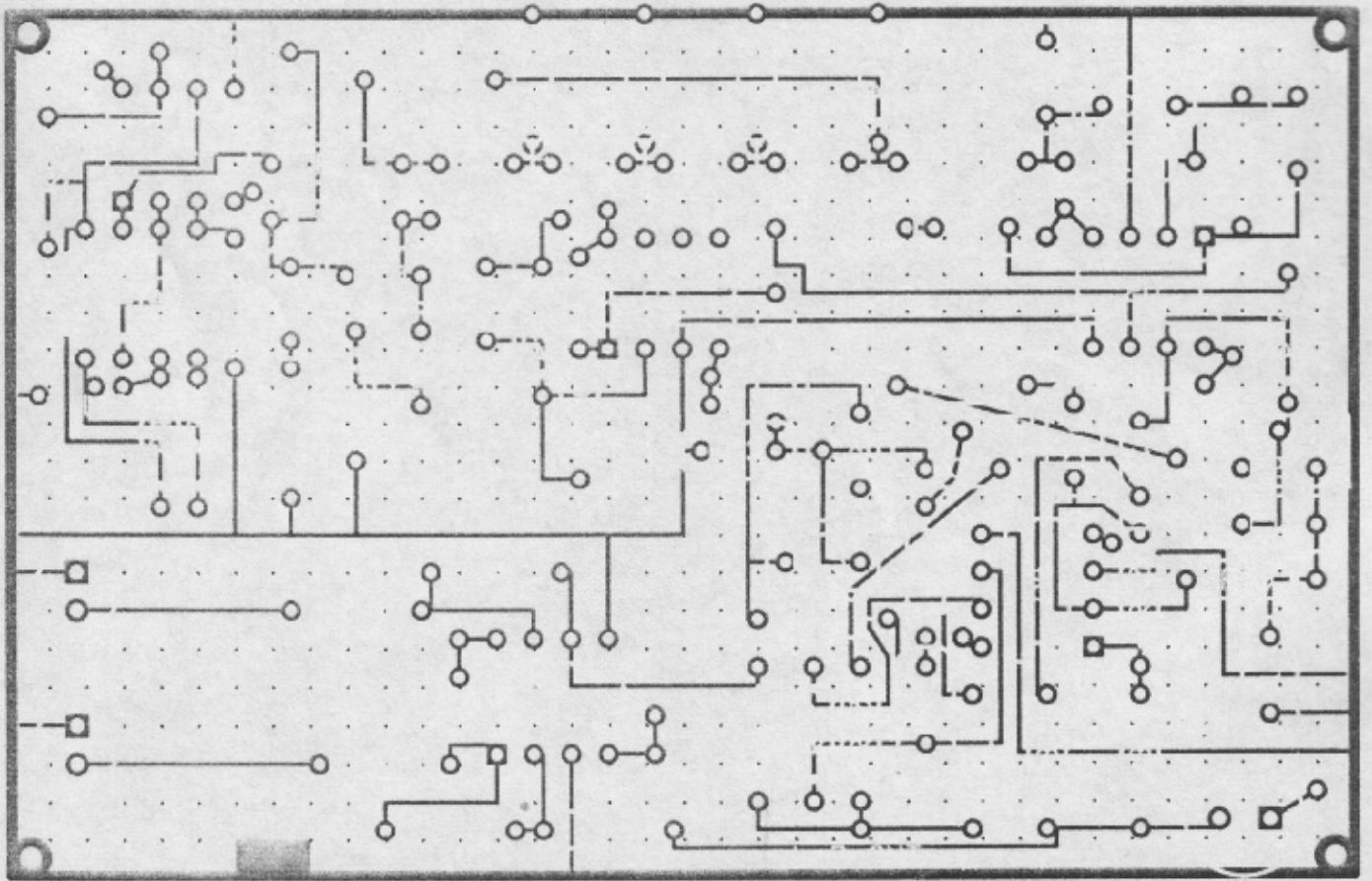
- U1 (201) AUDIO INPUT AMP
- U2A (202) L-R PREDISTORTION DOUBLER
- U2B (202) AND U4A (204) L-R de emphasis - RESTORER
- U5A (205) L-R LED DRIVER

- U3 (203) L+R RESTORER / PRE EMPH.
- U4B (204) L+R AMP
- U5B (205) L+R LED DRIVER



The switch across R 210 kills the L-R Phasing Relationship to the L+R, yeilding a "Cavam Mode" system. This was put in for testing only. The 75 ohm Resistor drops the L-R level in this Mode.

AUDIO MATRIX BOARD FOIL LAYOUT



RF BOARD

U1 (101) 10X - oscillator

U2 (102) - N/10 divider

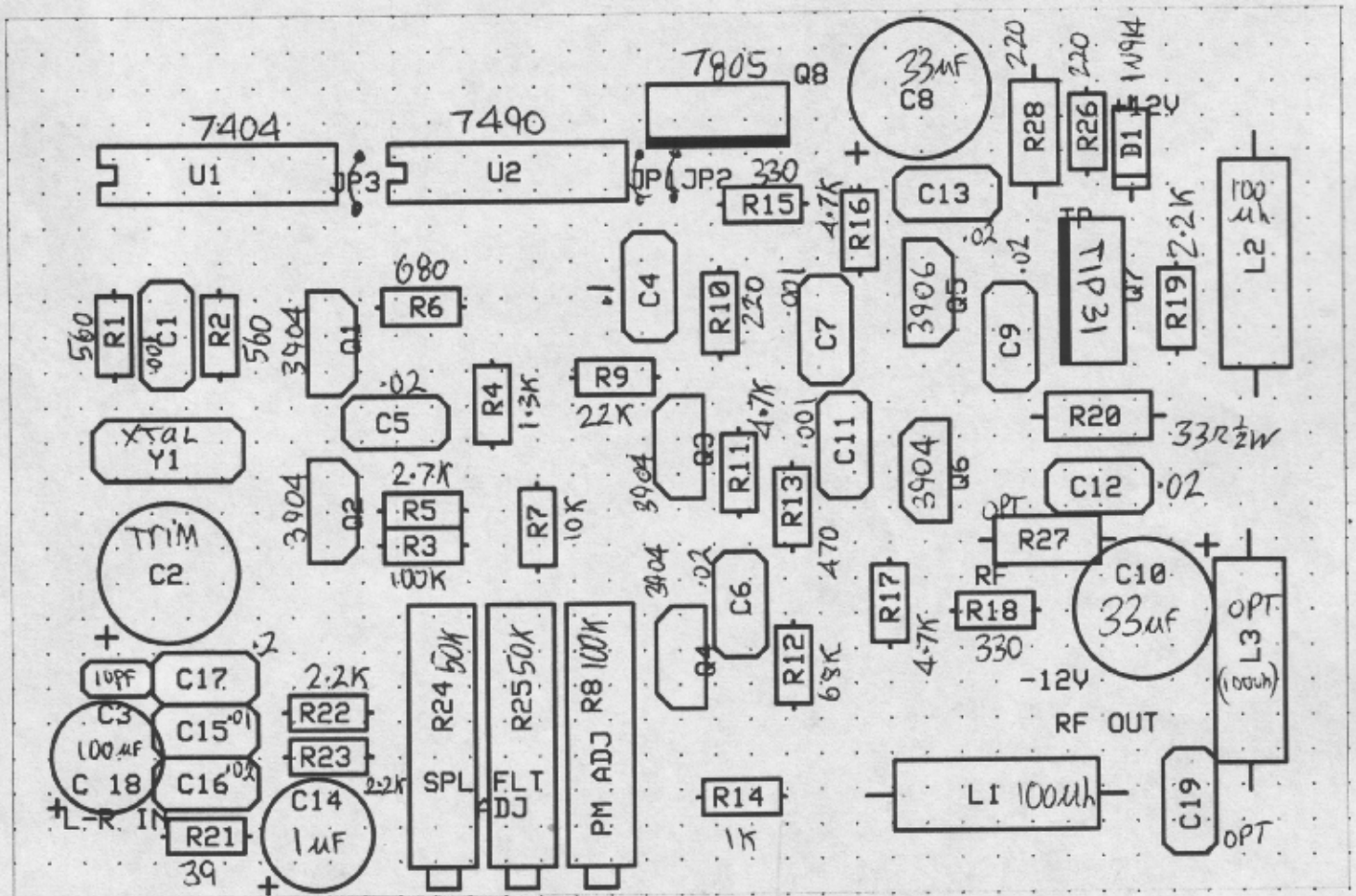
Q1 + Q2 (101 + 102) - Phase modulator

Q3 + Q4 (103 + 104) - Buffers and Pre Drivers

Q5 + Q6 - (105 + 106) Balanced TOTEM-POLE DRIVER

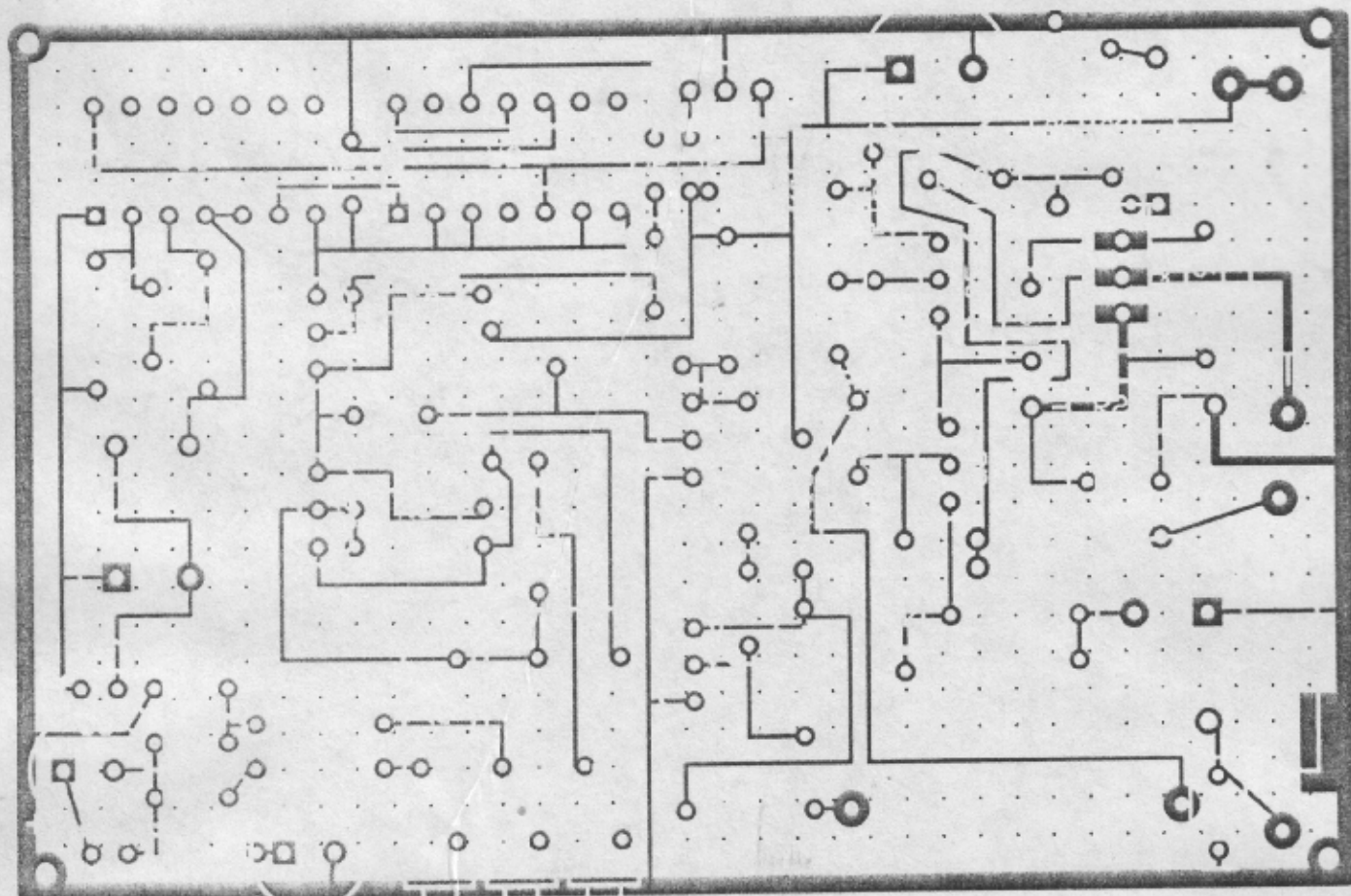
Q7 (107) - Power AMP

* PUT 25K Pot in series w/ R109 TO ADJ. RF POWER



↑ ↑ ↑
 { Phase Modulator }
 adjustments

RF BOARD Foil Layout



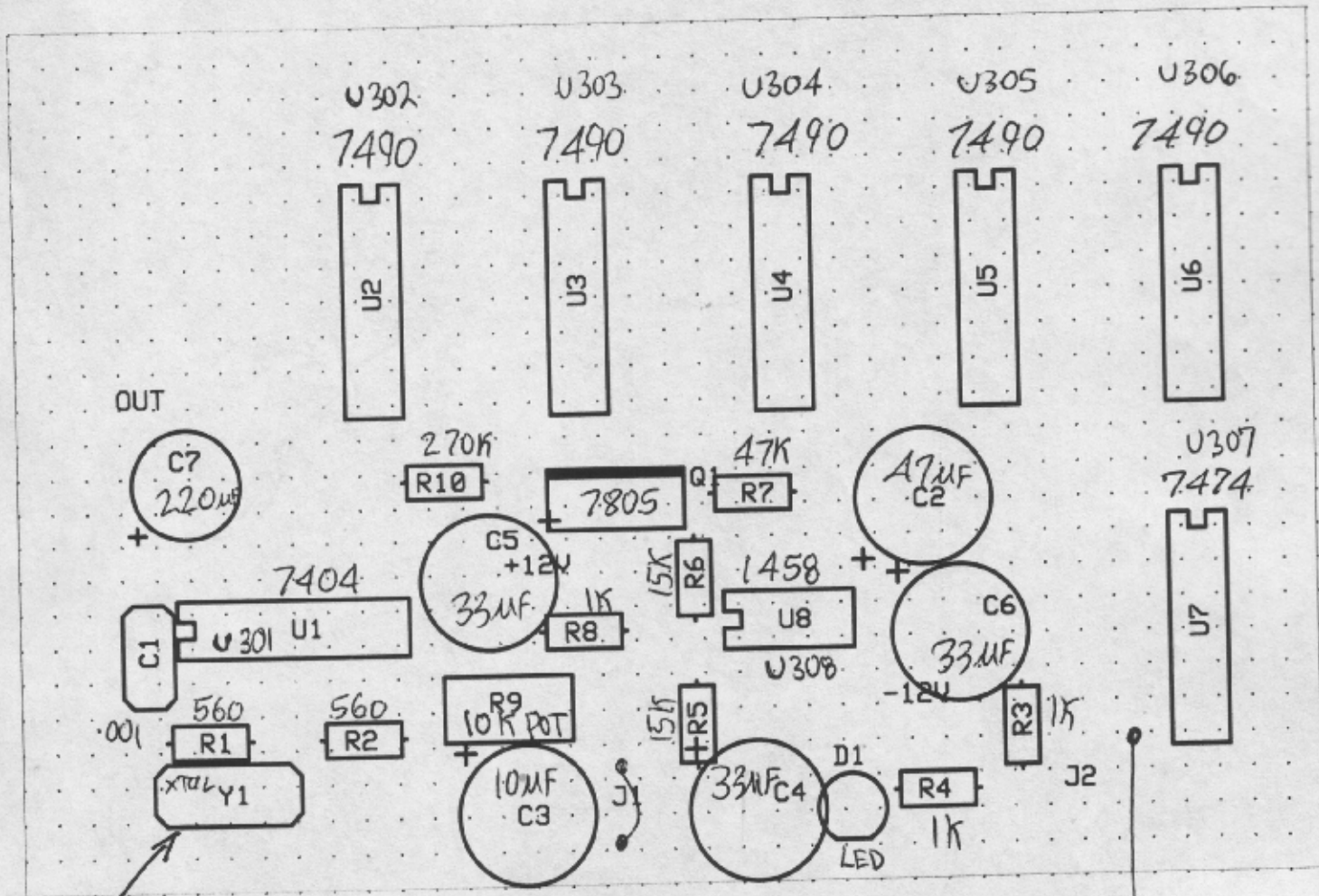
PILOT BOARD

U1 (301) oscillator - 6 Mhz

U2 (302) - U6 (306) Binary N/10 dividers

U7 (307) - N/4 divider

U8 (308) - Square-to-sine FILTER and AMP



Use 10 Mhz
XTAL FOR
CQUAM
Pilot

divide By 40,000

{ There are much easier ways to
generate 15 hz, BUT the 74XX
chips will NOT be obsolete! }

Pilot
enable/
disable
(J2)
(ground
TO ENABLE)

PILOT BOARD Foil Layout

