



FIG. 4. DETAIL DIAGRAM for the 12BY7-A mixer plate (L_1 — C_3) and 12BY7-A buffer/amplifier plate (L_5 — C_4) bandswitching tuned circuits. The lower end of each coil is bypassed separately to the chassis with a 0.001-mfd. disc ceramic capacitor.

CRYSTAL OSCILLATOR & RF SECTION:

- C_1100-mm. silvered mica.
- C_220-mm. silvered mica.
- C_3Silvered mica, 5 required, see TABLE III for values.
- C_4Silvered mica, 5 required, see TABLE III for values.
- C_510—140-mm. variable, 0.030-inch air gap, ceramic insulation (part of Harrington GP-50).
- C_620—730-mm. variable, 2-section broadcast receiver type (Miller 2112, or equivalent).
- D_1General purpose diode (G.E. 1N48).
- J_1Chassis type coaxial cable connector (SO-239).
- L_1 to L_4Crystal oscillator plate coils, all wound on Cambion CTC type LS-3 ready-wound coils with red-dot iron tuning slug; except L_4 , which is wound on blank LS-3 form, as follows:
 - L_15—10 Uh., CTC LS-3 — 10 Mc. coil.
 - L_2, L_330—70 Uh., CTC LS-3 — 5 Mc. coil.
 - L_44.6 Uh., 17 turns, No. 24 enameled wire closewound.
- L_5, L_67581 plate coils (part of Harrington GP-50).
- L_7, L_8Five each, mixer and buffer plate coils, wound on CTC (Cambion) iron-slug tuned forms; see TABLE III for winding data.
- L_96 turns, No. 14 enameled wire on 100-ohm, 2-watt resistor.
- M_10 to 1 millimeter, 2½-inch square (General Electric DW-91).
- S_{1A} to S_{1D}5-position, 2-pole shorting type ceramic rotary tap switch wafers (three Centralab type "R" sections); use shaft and spacers from Centralab P-123 Index assembly on S_2 .

