

SSB-600 (continued from page 1)
capability in the low duty-cycle SSB
and CW classes of service.


disc ceramic capacitors, as shown in the schematic diagram, Fig. 1. A commercially made filament choke isolates r.f. energy from the filament transformers, T₁ and T₂. Cathode input impedance is 100 to 200 ohms, depending on frequency.

application the distributed capacitance of the r.f. choke and DC blocking capacitor appear as a part of the input capacitance across the pi network, which is very undesirable.

When the output capacitance of the amplifier tubes is added to this input capacitance, it often is impossible to realize a desirable tank circuit "Q" on 28, and sometimes even on 21 megacycles. The need for parasitic chokes in the tube plate leads also is eliminated.

This circuit also has been tested with four tubes connected in parallel without encountering parasitic oscillation. The only precaution was to use four tube plate leads of equal length to the common point of parallel connection.

Bandswitching of the pi-network circuit was achieved with a tap switch (S_{1A}) to short out sections of the inductance (L_1 , L_2 and L_3) as required. The input tuning capacitor of the pi network (C_1) has only 50-mmfd maximum capacitance, and is used alone for 14, 21 and 28 megacycles. Another section of the band-switch (S_{1B}) adds a 50-mmfd fixed vacuum capacitor (C_2) for 7 megacycles, and a 100-mmfd vacuum capacitor (C_3) for 3.5 megacycles. This system permits selecting a tuning capacitor with low minimum capacitance and good ease of tuning for the higher frequencies, and still have sufficient capacitance for good circuit "Q" at 7 and 3.5 megacycles.

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