

1. TEST EQUIPMENT

7503 - Main Frame
7A22 - Differential Amp
2-6-GHz RF Driver

2. TEST EQUIPMENT HOOK UP

7503 - Vert Mode - Right
7A22 - Right Vert Slot
Position center of CRT when GND Mode
Step atten bal 12 O'clock
HF 3db point 1MHz
LF 3db point DC
Volts/Div - 1v
- input GND
+ input from \emptyset Gate output

2-6 Driver

Frequency - 2-4GHz Dial 0-6.4
RF out 7L18/492 to Lo input 7L18 \emptyset Gate
Strobe out 7L18 t- strobe in \emptyset Gate
+15 to +15 \emptyset Gate
-15 to -15 \emptyset Gate

3. TESTING

- 1-A. Insert \emptyset Gate into vice with +15 pins down exposing substrates.
- B. Connect supplies inputs outputs and termination.
See Fig. 1

If you have any problem
the ports are labeled on
the other side.

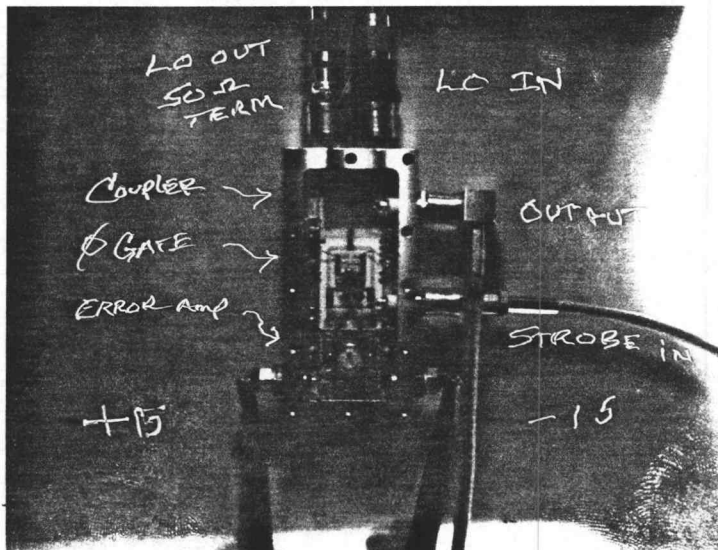


Fig. 1

3. TESTING (cont.)

- C. Check to see the range of the pot on the error amp. You do this by turning. The pot from stop to stop and then recentering it.
- D. Check the beat notes for p-p value, do this by setting the span at ≈ 0.5 and then turning the freq. pot to 0 and then back to 6.4; watching that the beatnotes don't go below 3v p-p. See Fig. 2

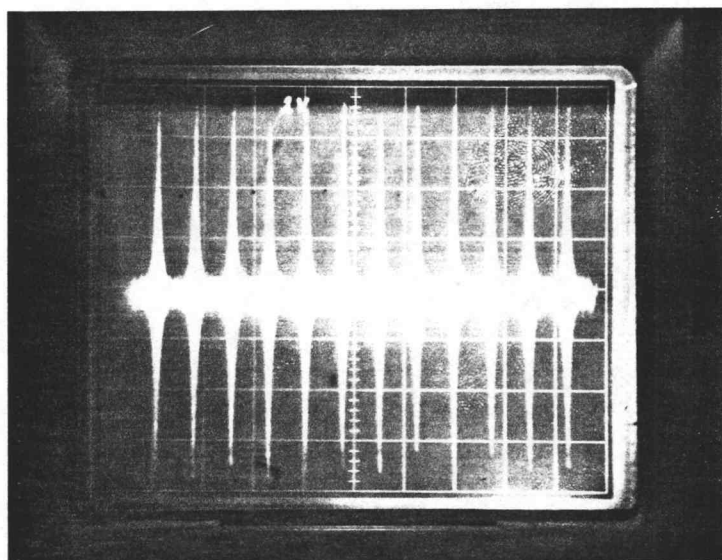


Fig. 2

- E. Turn span pot to 3.0 (FCW) and rotate frequency pot back down to 0 watching the center line for a shift. Fig. 3
- F. Turn freq. to ≈ 4.8 on dial and span down to ≈ 0.1 and check symmetry of waveform. Fig. 4

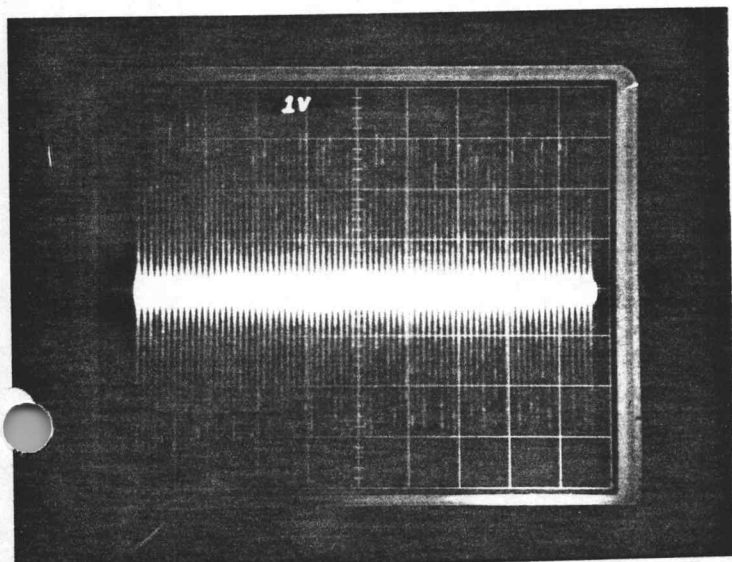


Fig. 3

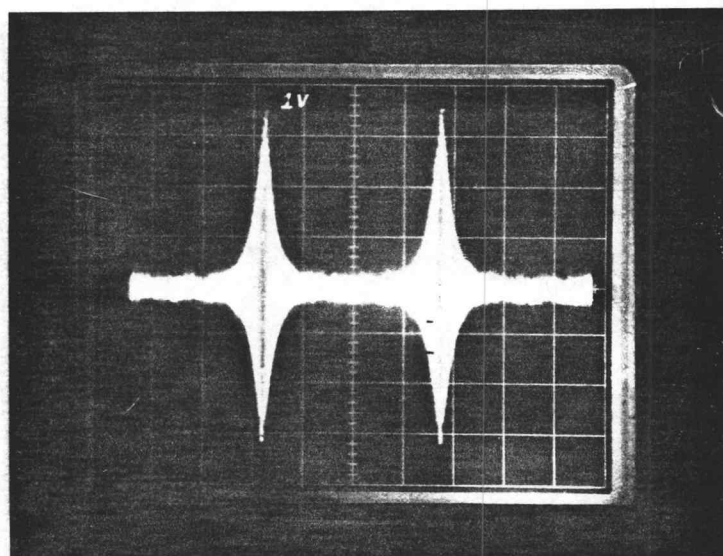


Fig. 4

3. TESTING (cont.)

- G. Remove and ship to assembly to have a cover put on.
- 2-A. Once it comes back from assembly it goes into the small oven set at 65°C for \approx 2 hours.
- B. Take it out and hook it up. Make all of the same checks that were made prior to having the cover put on.
- C. Ship it.

4. TROUBLESHOOTING HINTS

- A. No beatnotes (Remove \emptyset Gate check in fixture)
- B. To one rail or other (Remove error amp check in fixture)
- C. No adjust on pot (Remove error amp and check in fixture)
- D. Pot flakes out after hitting stop (replace pot)