Tripler 56630

RF board 56634, driver board 56635

The amplifier consists of four discrete FET stages: Agilent ATF-13736 -- Filtronics LP6836 as drivers, Excelis EPA080A and EPA160B (active-baised) to form the final power stage.
Downconverter 53728

RF board 53344, driver board 53605
Notes:

1. **Power supply and I/O signals should be near** 5 Vdc connection.
2. **Provide a separate ground wire connection to the box.** The ground plane should be a single layer of solid copper near the circuit board in order to avoid interference.
3. **Separate routing to opposite side of the main circuit should be isolated as much as possible.**
4. A DC 5 V fuse connected with a fuse holder should be as close to the power supply as possible to limit lead length.
5. **Provide all the DC 5 V power on the SC-2175a printed circuit board, isolation of DC 5 V power.**
6. **Provide all power supplies not to have interference with each other.**
7. The power supply can be replaced by a 100 mA current-controlled, 0.1 V output control.
8. The control circuit (SC-2175a) is in an HP model 53603A, 49811-003 order with 27-27-32 replaceable changes in the HP board. Numbers can be added with corresponding changes to the HP board.

Rev 3 stuff:

- 40 local switching to 12V. Power loss will be ~120 mV.
- 4 line switching for this 12V source
- 4 line switching to the board for 12VDC
- Increase power line source
- Add power source indicator in another control section

Rev 4 stuff:

- **Change of this line.** Change (24-4-7-10) to be 24-7-10-10 line with single-ended (Ref. Note 10 DFM 1301/1516)
- Remove (37-40-42-43) and (24-40) from (10-11)
- Use changes to replace 12V source on the board.
- **Change of this line.** Change (24-4-7-10) to be 24-7-10-10 line with single-ended
- **Change of this line.** Change (24-4-7-10) to be 24-7-10-10 line with single-ended
- Change 12V source on the board.

Rev 5 stuff:

- **Add line** (24-4-7-10) to be 24-7-10-10 line with single-ended (Ref. Note 10 DFM 1301/1516)
- Change 12V source on the board.