

1 Description of changes

- Variable caps are reconnected such that the top plate is connected to AC ground
- Ground plane split is eliminated
- Second resonant tank is added to the second doubler filter
- Bypassing on second doubler is improved

2 General Layout Changes

- Rotate variable capacitors C3, C6, C7 and C10. i.e. swap pins 1 and 2 to that the top plate is AC ground.
- Extend the general ground plane and connect it to the RF ground plane under the full length of the shield.

3 Second Doubler Layout Changes

- Add 470 pf bypass cap (C46) as close as possible to the AC ground side of C3
- Okay to move R45 to make room for C46
- Change ferrite bead L9 to 10 ohm resistor.
- Increase size of trace from C4 to Q1
- Change R4 to L10
- Rearrange C18 and C20 (changed to C47)

4 First Doubler Layout Changes

- Move C33 closer to C7 and increase ground connection area on C33.
- Swap locations of R7 and C5
- Look at rearranging C6 (rotate ONLY!) and L7

5 Non-layout changes

- Reduce size of shield

The manufacturer certifies that the modifications listed above will be ☐ incorporated into all production units.