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Modification Description for FCC ID: DO4LIBP2 / Request for adding the new family variant SX-Wide

A lowpass filter comprised of C51, C57, C93, C94, L23, L24, and L25 has been added to suppress harmonics at J6 and J7 slave outputs.

A common mode choke L26 and RF choke L27 have been added along with a separation in VCO / limiter and power amplifier ground planes. Also the 5 volt regulator VR2 has been moved to VCO / limiter ground plane. This has been done to isolate VCO / limiter harmonics from power amplifier section. We may be able to eliminate the added ferrite cores at the RF output and DC power connectors.

The obsolete final amplifier bipolar transistors Q4 and Q5 have been replaced with mosfets. In the bias circuit to Q4 and Q5 RF chokes L18 and L19 and R90 have changed value, diodes D4 and D5 have been removed, and R91, R92, and R93 have been added. In the RF output filter C32 and C37 have changed value to allow for the internal mosfet drain capacitance.

In addition to the above, we declare that the model SX-Wide (SX-Wide TX / SX-Wide RX) is a new variant of the Liberty P2 family. It is technically identical to the existing and already certified variants. Only the frame is different.

Thorofare, NJ, date 07/06/04
place of issue

Baptiste Dubois

Seal and signature of applicant