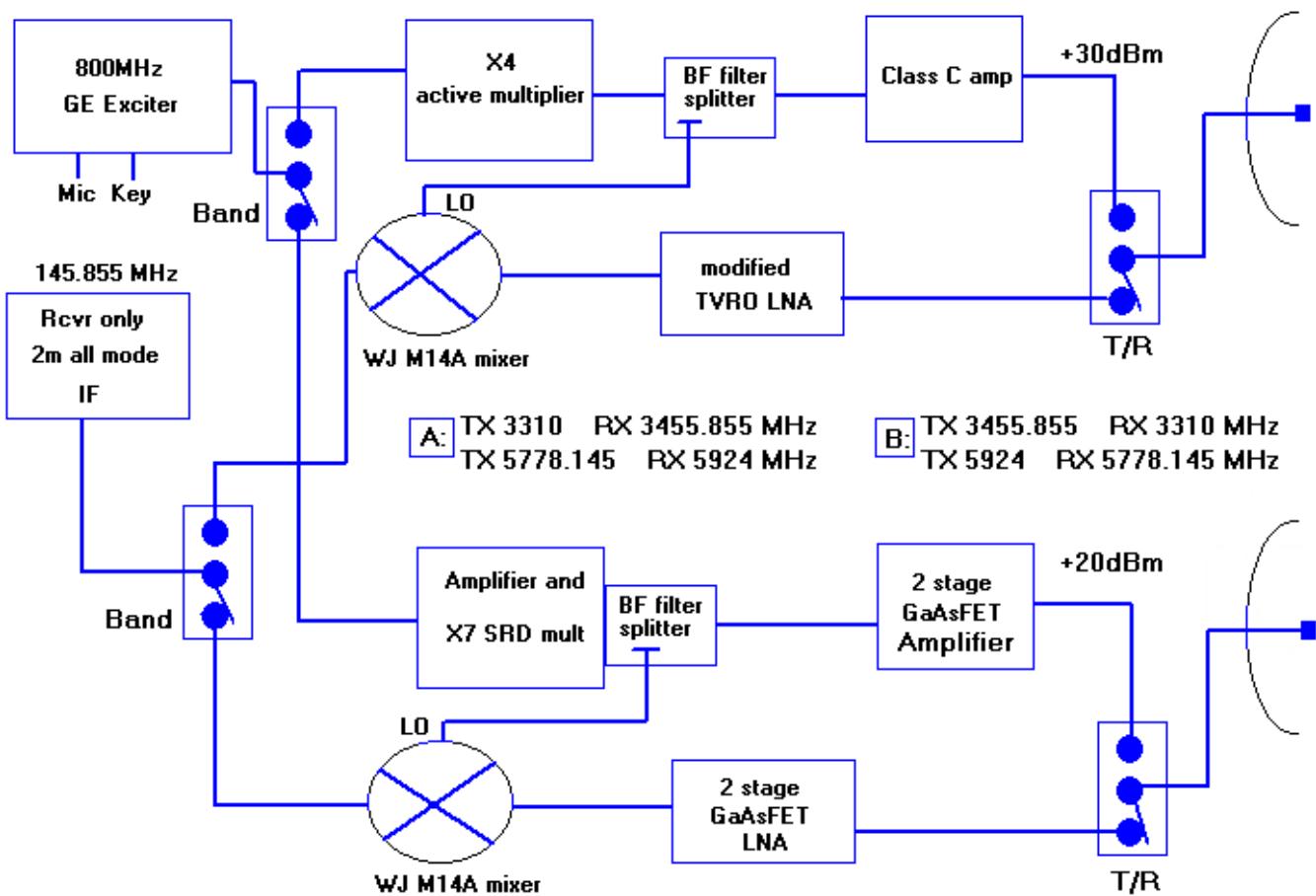
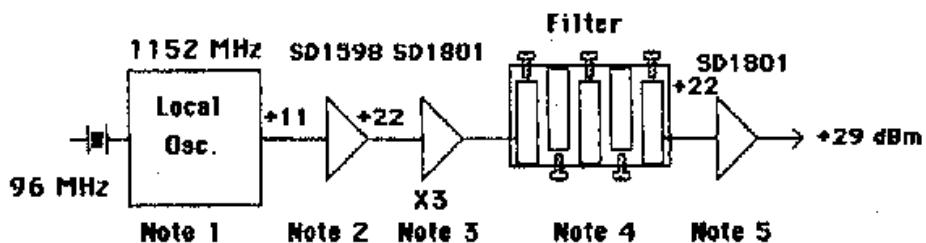


3 and 5 GHz Duplex Rigs W3KM 1987



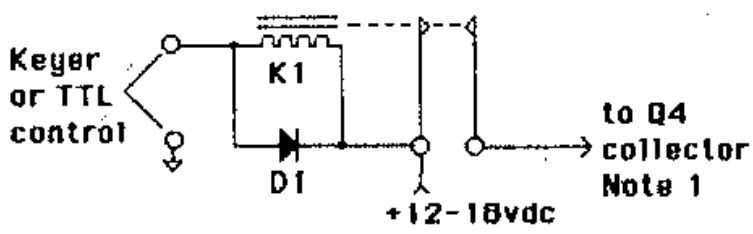
3456 MHz Beacon Transmitter



Reference Notes:

- Note 1: 1152/1268 MHz L.O., WA3JUF, 1984 Rev C
- Note 2: 900-1300 MHz Linear amplifier, WA3JUF, 1983
- Note 3: X 3 Multiplier to 3456 MHz, WA3JUF, 1987
- Note 4: KA1GT, May 1984 QST, taps @ 0.2" from cold end
- Note 5: 3456 MHz 1 Watt amplifier, WA3JUF, 1987

CW operation using an isolated keying circuit as follows:



D1=1N4148

K1=Reed Relay

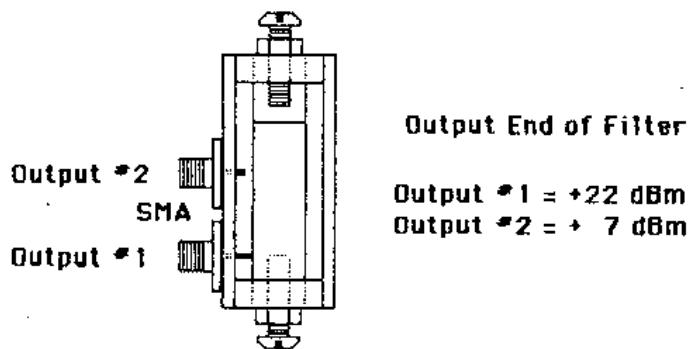
Hamilton # HE721A05-00

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Interdigital Filter/Power divider #2

for use in a 3456 MHz duplex system for example

**Reference: W2CQH, Jan. 1974 QST
KA1GT, May 1984 QST**



The two output connectors are mounted just far enough apart that the male interconnecting connectors will clear one another.

Using two outputs as shown allows two different output levels, for a duplex system. Output #1 is the transmitter output. Output #2 is the receive mixer LO output.

The filter is tuned up normally. Then the second connector is added. The center pin of the SMA connector is sufficient capacitive coupling for outputs 10 to 15 dB down from output #1. The length of the center pin can be filed to adjust the Pout of output #2. The exact placement of the connector is not critical. Making the center pin shorter decreases the coupling, and adding a small disc would increase the coupling even more than the center pin itself.

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