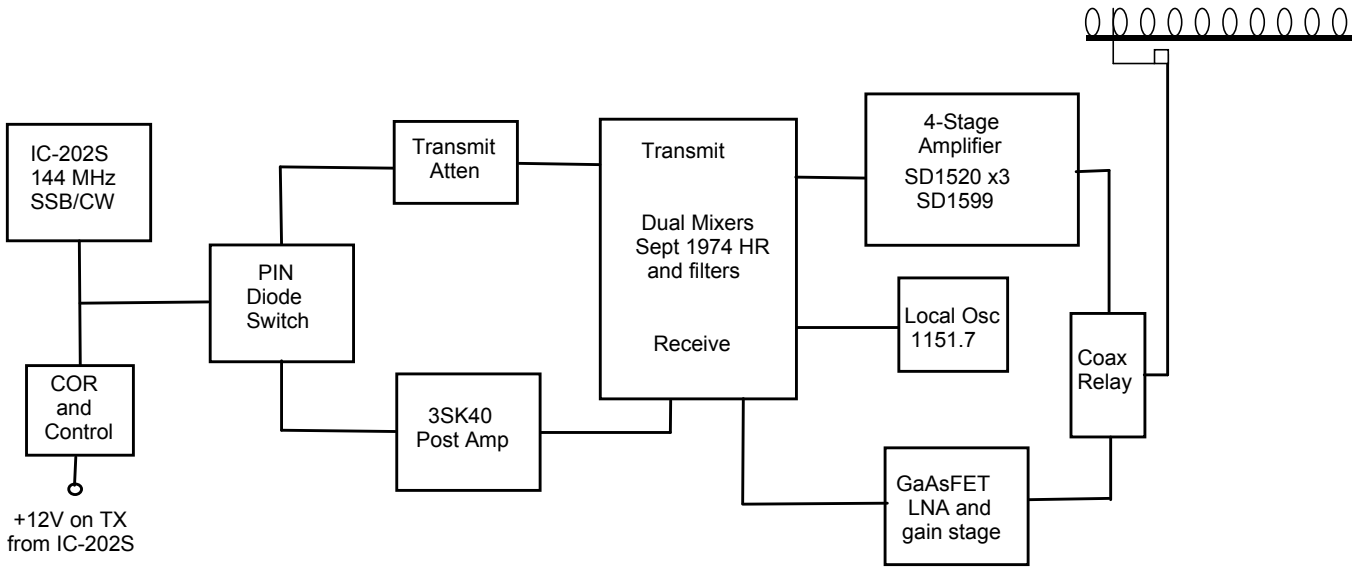
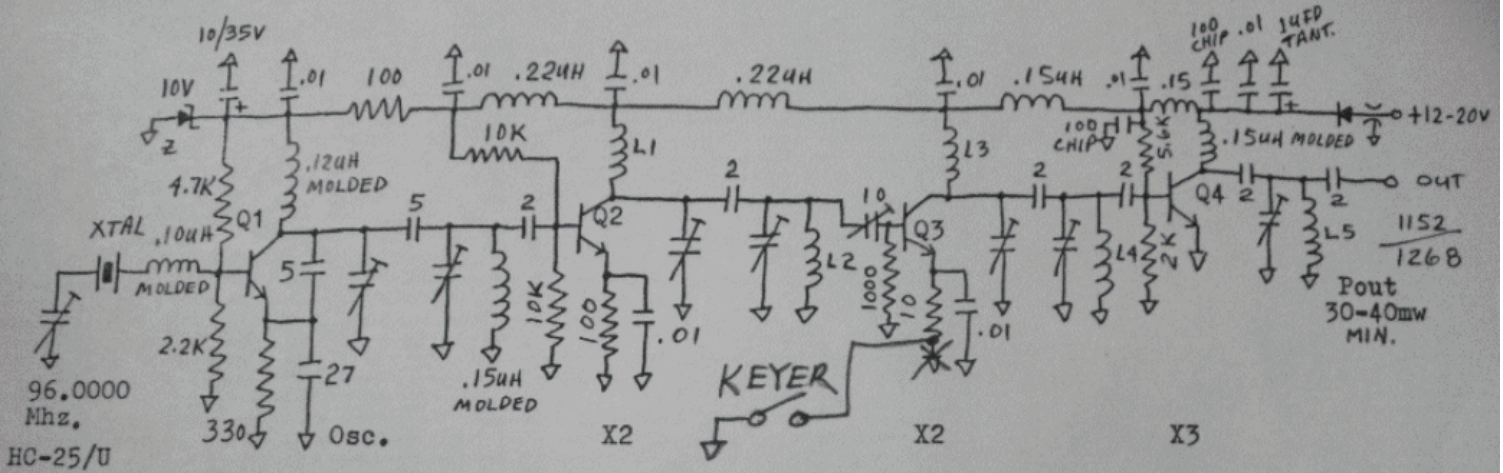
1296 Transverter WA3JUF 1981



1152/1268 Mhz. Local Oscillator



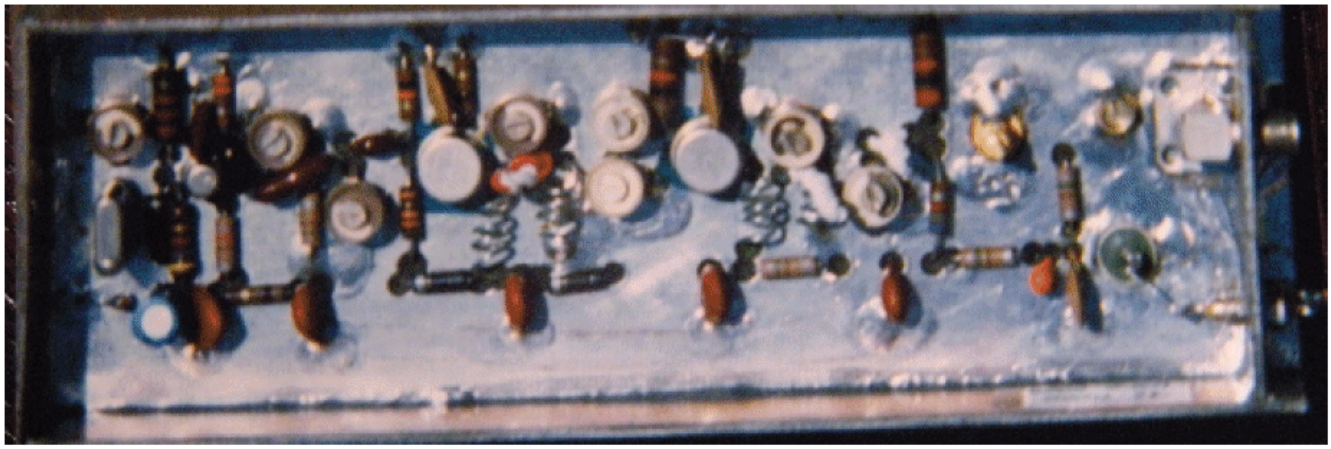
Q1= 2N918, 2N5179
Q2= 2N5109, SD1006, SD1040
Q3= 2N3866, SD1020
Q4= SD1598

L1= 5t #22 1/8" ID
L2= 5t #22 1/8" ID
L3= 3t #22 1/8" ID (2t for 1268)
L4= 3t #22 1/8" ID (2t for 1268)
L5= 0.4 X 0.15" Brass strip
tapped close to trimmer
for max. Pout

Trimmers are 10pf Johanson (5401)
10Pf Ceramic trimmers useable.

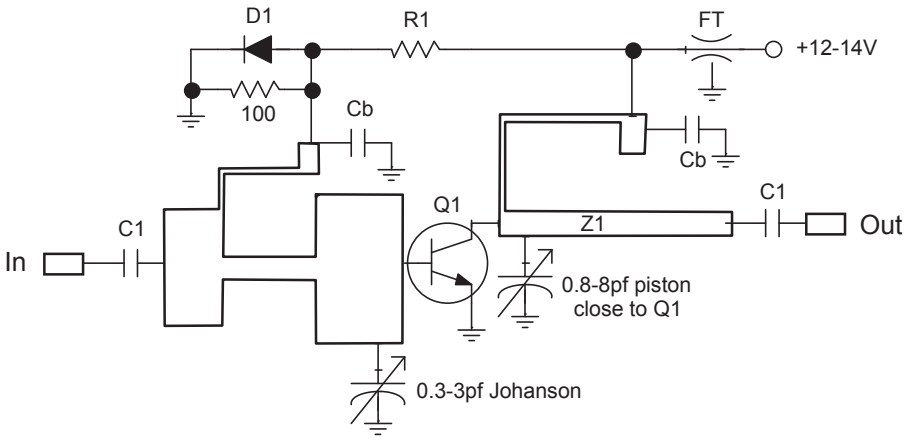
L5 trimmer is 0.6-6pf Piston

REV C 1984
D. MASCARO
WA3JUF

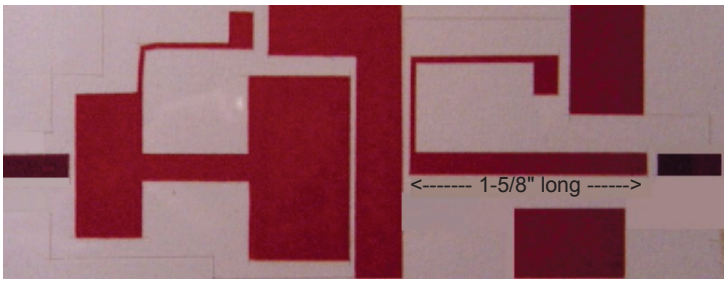


1296-MHz Linear Amplifier
WA3JUF 1981

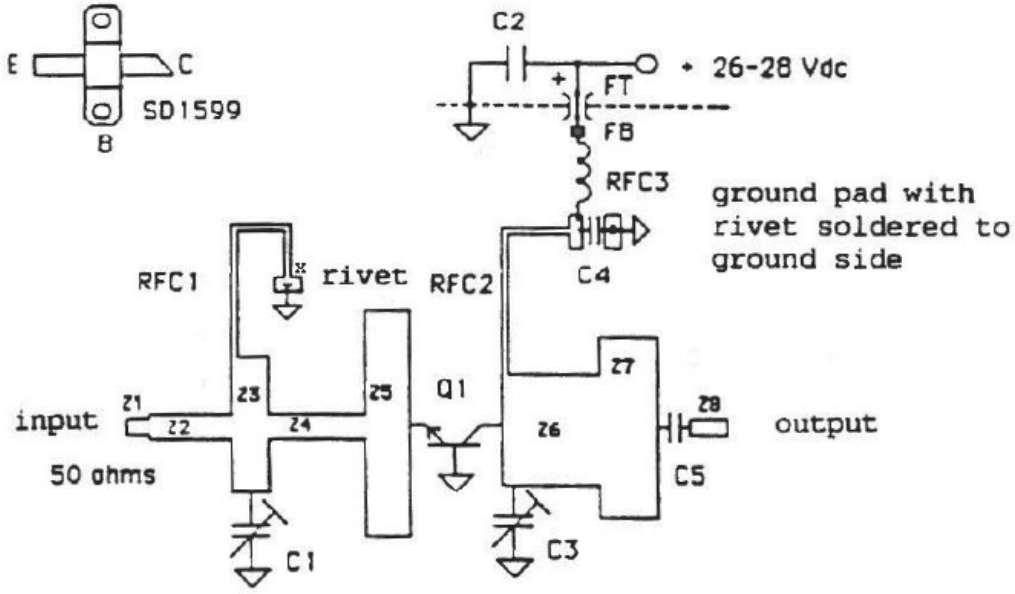
Gain=13 dB at ~100 mW and 9-10 dB at the 1 Watt level



Q1 - SD1520/SD1598
D1 - 1N4001 glued to Q1 lid
on amps >400mW out
C1 - 100pf chip
Cb - 100pf chip + .01 chip
R1 - 1.5K to 1.8K 1/2W - adjust
for Icq 40-50mA
PCB is 1/16" G-10
Z1 length is 1-5/8" long, given
to print 1:1 artwork if desired



1296 MHz Amplifier

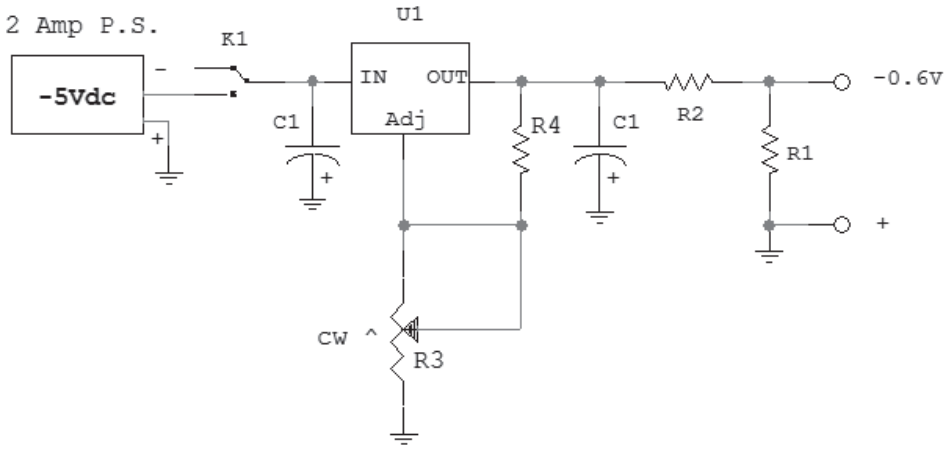


Q1	- Thomson CSF SD1599	FB	- Ferrite Bead
Board	- 1/16" G-10	Z1,8	- 0.11" wide 50ohms
RFC1,2	- 0.030 x 1.5" chokes	Z2	- 0.11" x 0.30"
RFC3	- 8 turns #28 on 0.1"	Z3	- 0.20" x 0.60"
C1	- 3pF Johanson Piston	Z4	- 0.15" x 0.45"
C2	- 10uF/35VDC	Z5	- 0.20" x 1.00"
C3	- 6pF Johanson Piston	Z6	- 0.50" x 0.60"
C4,C5	- 100pF chip cap.	Z7	- 0.50" x 1.00"
FT	- 1nF Feedthru		

cut trace at X to use CB bias source

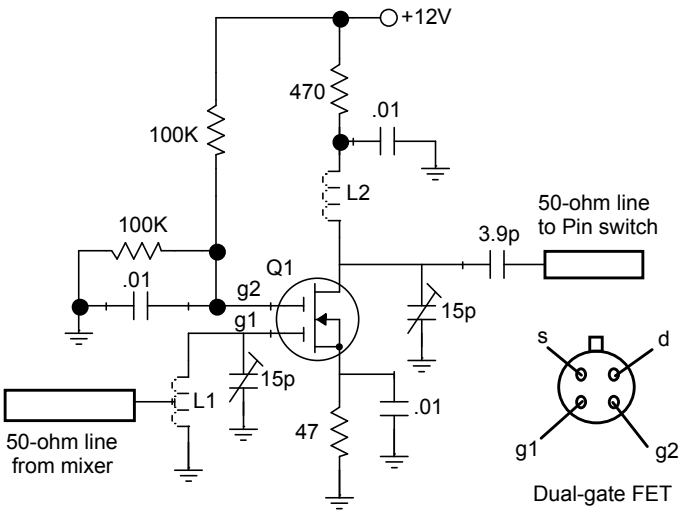
W3KM 1981

Common Base Linear Amplifier Negative Bias Source
by Dave Mascaro, WA3JUF 1981



U1 - LM337K TO-3 negative regulator
(mounted to heatsink with insulator)
R1,2 - 0.5-ohms/5 watt resistors
(R1 connected between the CB amplifier's
emitter feedthru and chassis ground.
R2 can be some distance away)
K1 - N.O. relay contact, close on TX
R3 - 100-ohm 10-turn pot
R4 - 120-ohm 1/4w
C1 - 1ufd tantalum

144 MHz IF Post Amp
WA3JUF 1981



Q1 - 3SK40 (3N200, 3N204, 40673)
L1 - 6t #24 3/16" ID, tap 5t from ground
L2 - 6t #24 3/16" ID
RFC - 8t #22 3/16" ID
15pf trimmers are EFJ 189-506-5 or equiv.