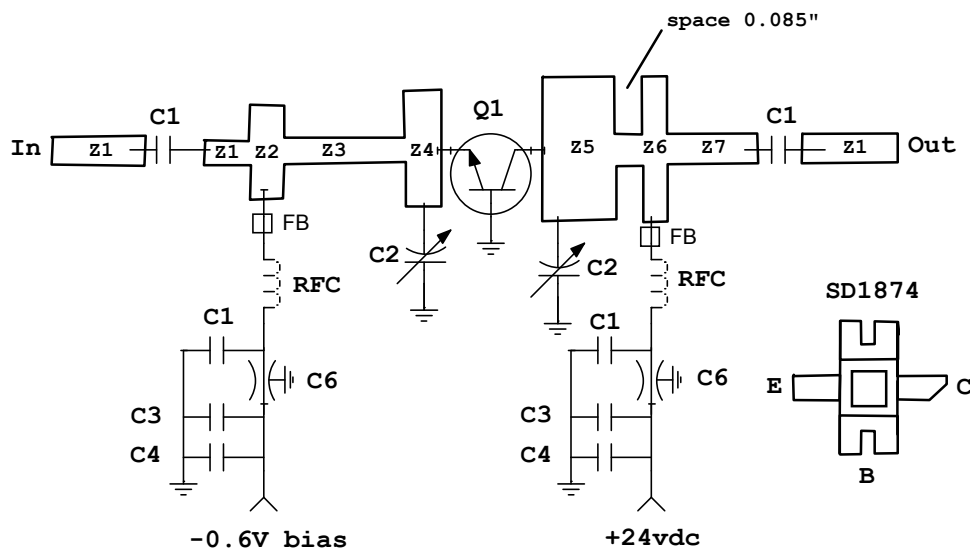
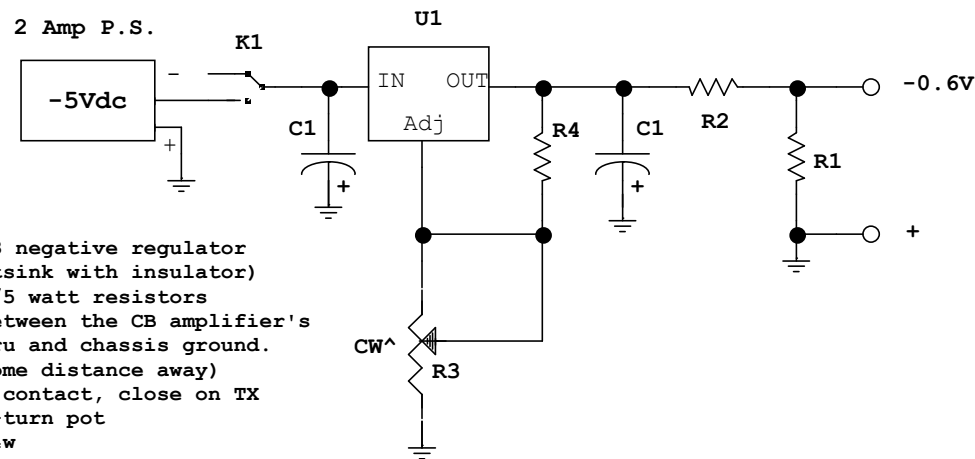


1296 MHz CB Linear Amplifier
13dB gain @10W 10dB gain @25W
WA3JUF 1990

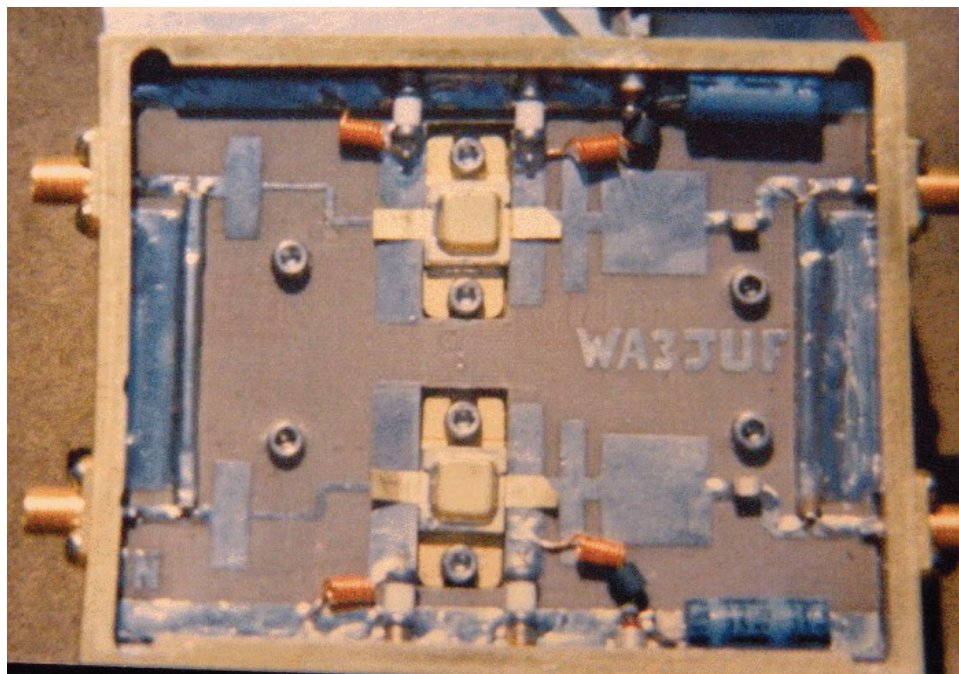


C1 - 100 pf chip	Q1 - Thomson SD1874
C2 - 3.5 pf Johanson	Z1 - 0.080" 50-ohm
C3 - 0.01 ufd	Z2 - 0.150" x 0.50"
C4 - 10 ufd/35Vdc	Z3 - 0.025" x 0.85"
C6 - Feedthru	Z4 - 0.280" x 0.95"
FB - #43 Ferrite bead	Z5 - 0.190" x 0.90"
RFC - 8t #24 0.10" ID	Z6 - 0.010" x 0.70"
Board 1/32" Teflon Er=2.5	Z7 - 0.080" x 0.85"

Common Base Negative Bias Source



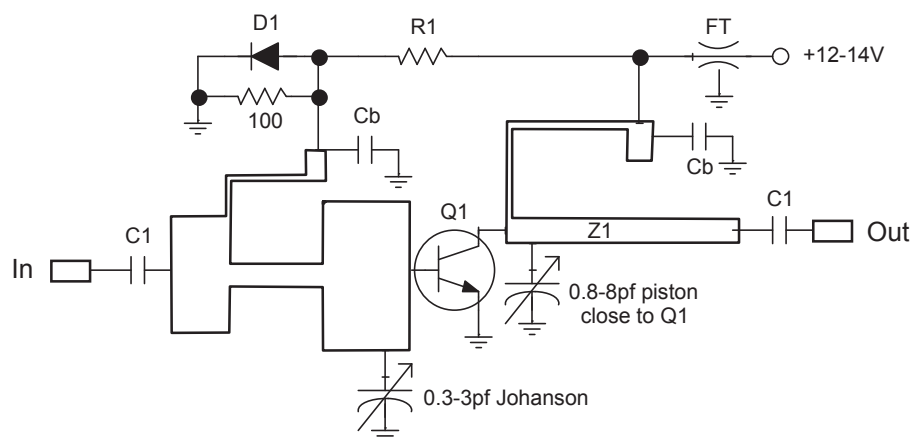
U1 - LM337K TO-3 negative regulator
(mounted to heatsink with insulator)
R1,2 - 0.5-ohms/5 watt resistors
(R1 connected between the CB amplifier's
emitter feedthru and chassis ground.
R2 can be some distance away)
K1 - N.O. relay contact, close on TX
R3 - 100-ohm 10-turn pot
R4 - 120-ohm 1/4w
C1 - 1uF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



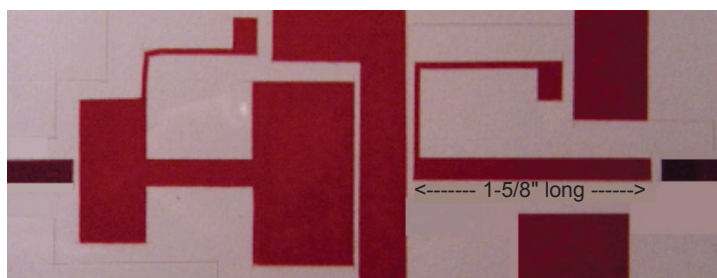
2 X SD1874 CB Linear is similar to this SD1868 Class C except bias FT and chip caps were added for CB Linear.

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



Pin 1 Watt

Pout 5 Watts @ 20 vdc

* Adjust R1 for 25-30 ma. I_{cq}
($\approx 2.4K\Omega$)

 $(\approx 2.4\text{K}\Omega)$ $(\approx 2.4\text{K}\Omega)$ $(\approx 2.4\text{K}\Omega)$ $(\approx 2.4\text{K}\Omega)$