

1



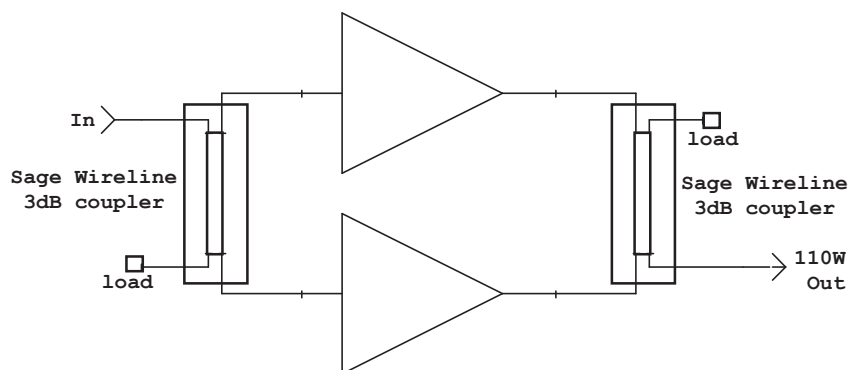
3

4

5

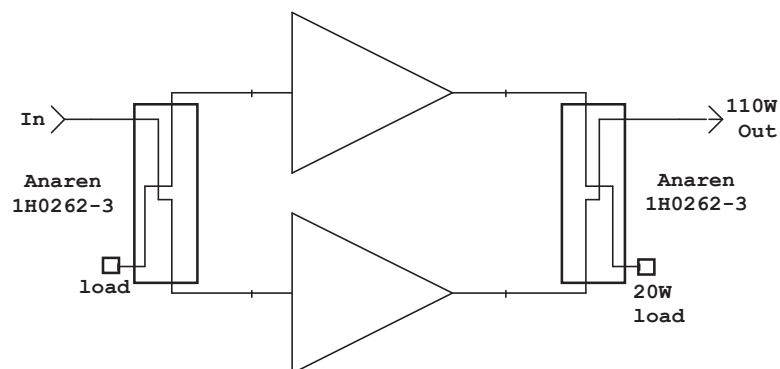
220 MHz 110W Linear Amplifiers WA3JUF 1994

combined 2 x SD1458 60W amplifiers



UT-141 coax was used to connect each
amplifier to the Sage couplers.

combined 2 x SD1458 60W amplifiers



1

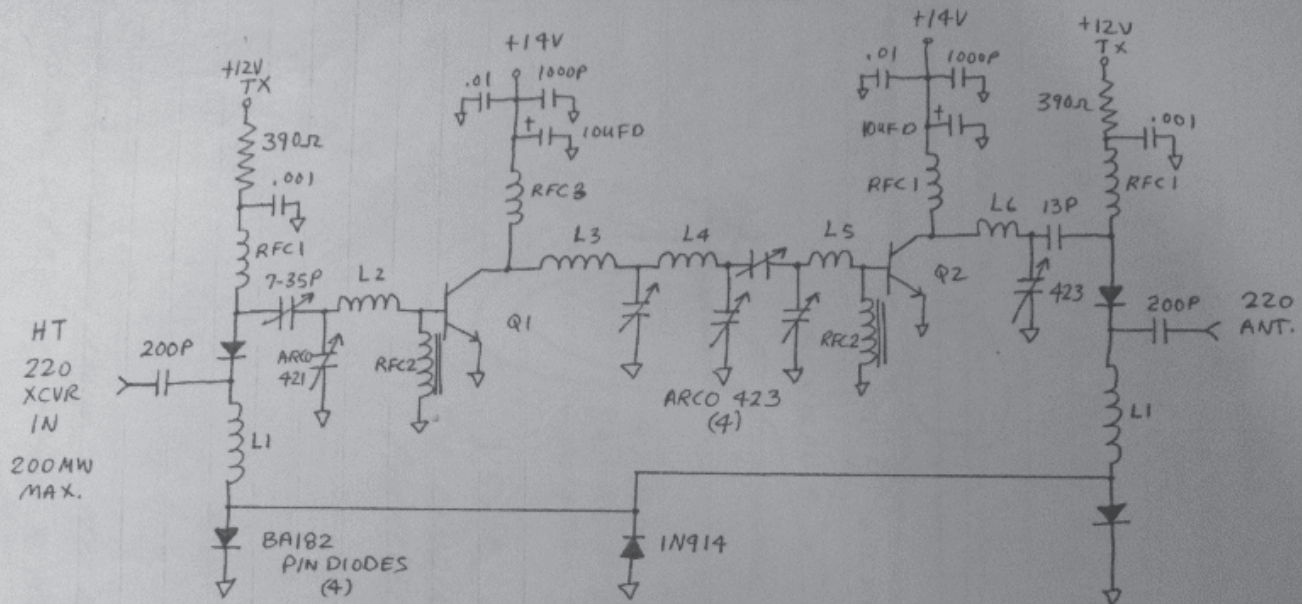


3

4

5

CLASS C 220 MHz. AMPLIFIER



Q1 = SD1131
Q2 = SD1143-1

RFC1 = 7T #22; .140" ID
RFC2 = VK200
RFC3 = 6.8μH

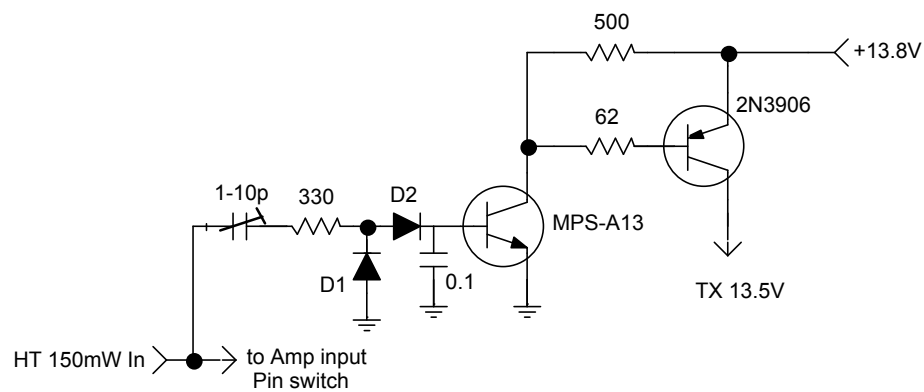
L1 = 1/4 LINE; 9" LONG (TOTAL CUT LENGTH)
TEFLON MINATURE COAX; SHIELDS GROUND
L2, 3, 4 = 4T #22; .140" ID (BLUE)
L5 = 1.2" #18; HAIRPIN LOOP
L6 = 1T #18; 0.3" ID.

P_{IN} = 200 MW. MAX.
P_{OUT} = 20 W. (17-19 TYP.)
R_X INSERTION LOSS ≈ 0.4 DB
2FO DOWN > -30DB

B
C E SD1131
CASE IS EMITTER

WA3JUF
D. Mazzaro 1983

RF sensed keying for low power
HT/Amplifier use WA3JUF 1981



D1,2 - 1N4148

Pin diode switched HT amplifier

