# 439.25 MHz ATV Amplifier
# 2 X SD1458`s @60 Watts
# WA3JUF 1983

Q1 - SD1458 Class A device
RFC1 - VK200 wideband choke
RFC2,4 - 8t, #20, on red toroid
RFC3 - 3t, #16, 1/4" ID
Cb - .01 + 100pf
50-ohm lines are 0.080" x 1.5"
Matching caps - Unelco metal clad
Trimmers are Arco

Sage 3dB Wireline couplers: Start with about 5" of line and strip the ends for a coupler length of 4.3" long.

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The SD1458 is a Class A transistor, capable of Icq = 2.5A. Start with an idling current of ~500mA, and increase as needed.

Tune individual amplifiers for power out and broadbanded video performance before combining.

# Combining 2 RF amplifiers with Sage wireline

**The wires of the Sage coupler are crossed as show above when connected to combine 2 amplifiers of the same design.**

# 439.25 MHz ATV Amplifier using combined TPVA5060 60 Watt Class A
# WA3JUF 2000

Amplifiers tuned at 439.25MHz

Interconnections with UT-141 coax.

Sage 3dB Wireline couplers: Start with about 5" of line and strip the ends for a coupler length of 4.3" long.