

LAB #5

TITLE: Connect and test Full-wave rectifier with smoothing choke and capacitors

Objectives: (Use oscilloscope/multimeter.)

The candidate will be required to:

- i. Determine from tests undesirable characteristics of D.C. output.
- ii. Connect bridge rectifier circuits using solid state diodes into smoothing circuit.

Procedures:

Connect the full-wave bridge circuit.

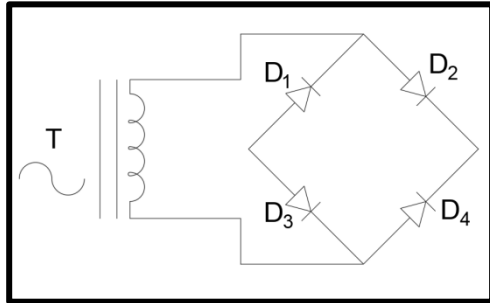


Fig.1 Showing how the rectification of the full wave bridge circuit should be

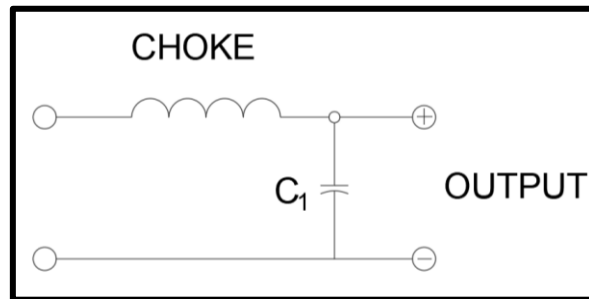


Fig.2 Showing how the filter of the full wave bridge circuit should be connected

Questions:

What effect is there on the circuit when:

1. The capacitor C1 is removed?
2. The choke is removed?
3. The diode D2 is removed?
4. One (1) diode is reversed?

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SCHEMATIC DIAGRAMS:

RALEVANT THOERY:

OBSERVATION: (Answer to Questions)

CONCLUSION: