

## Evaluation Kit

### APPLICABLE PARTS (SOLD SEPARATELY)

- PB50
- PB58

## INTRODUCTION

This easy-to-use kit provides a platform for the evaluation of the PB50 and PB58 high voltage power boosters. The PB50 and PB58 are designed most commonly in combination with a small signal, general purpose op amp. However, they can also be used without a driver amplifier. This kit can be used to analyze a multitude of standard or proprietary circuit configurations.

### Figure 1: PCB Layout

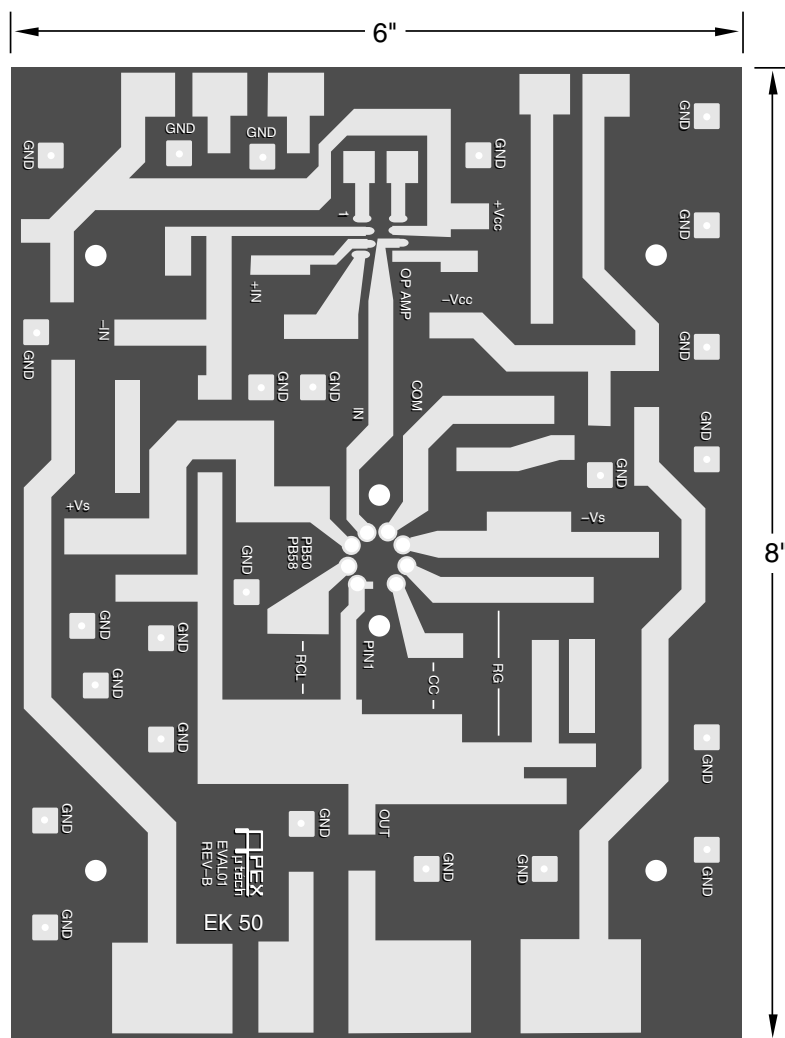
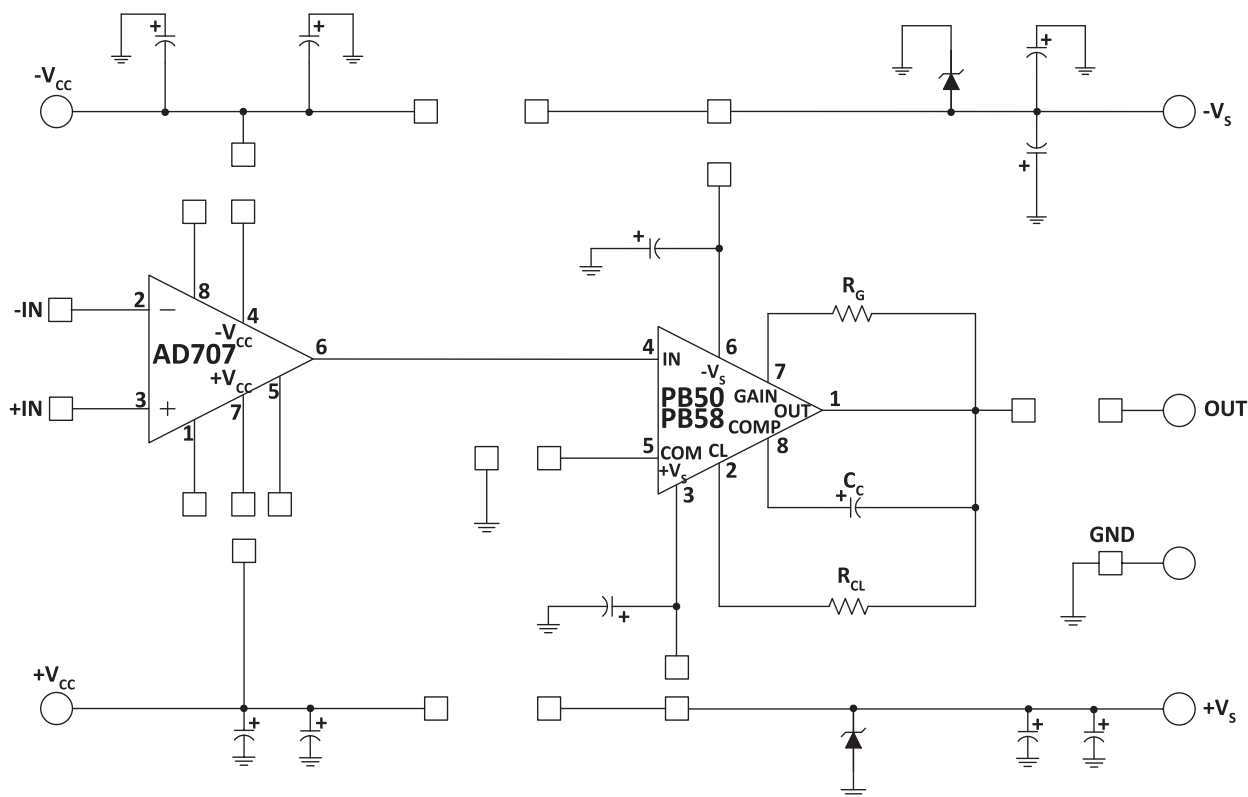


Figure 2: Equivalent Schematic


**CAUTION**

1. Use thermal grease or Apex Microtechnology Thermal Washer TW03 between power booster and heatsink.
2. Use 18 gauge teflon sleeve on at least two opposite pins
3. Mounting torque greater than 7 in•lbs on power booster mounting bolts will void warranty!

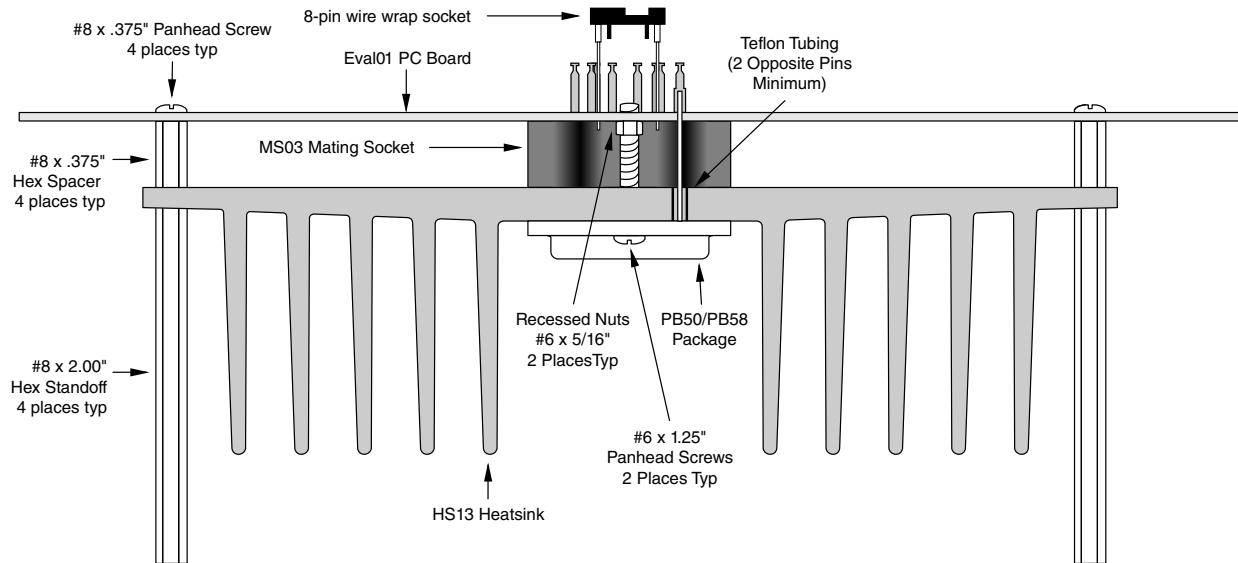
**PARTS LIST**

| Reference | Manufacturer Part # | Description            | QTY        |
|-----------|---------------------|------------------------|------------|
|           | HS13                | Heatsink               | 1          |
|           | EVAL01              | PC Board               | 1          |
|           | MS03                | Mating Socket          | 1          |
|           | HWRE02              | Hardware Kit           | 1          |
|           | HWRE05              | 8-Pin Wire Wrap Socket | 1          |
|           | TW03                | Thermal Washer         | 1 Box (10) |

HWRE02 contains the following:

- 4 #8 x 0.375" Panhead Screws
- 4 #8 x 0.375" Hex Spacers
- 4 #8 x 2.00" Hex Stand Offs
- 2 #6 x 1.25" Panhead Screws
- 2 #6 x 5/16" Hex Nuts

**Figure 3: Assembly**



## NEED TECHNICAL HELP? CONTACT APEX SUPPORT!

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