

Naos Raptor™ (NSR Series) Evaluation Board Documentation

There are two Naos Raptor™ series evaluation boards. One board has a dual layout of the NSR003/006/010 and the NSR020 modules; the second has a dual layout of the NSR040/050 and the NSR060 modules. The specific combination of module and board desired can be ordered using the list available from your sales representative.

The dual layouts on each board also serve as example layouts for applications where dual layouts may be desirable, e.g. when the output current is uncertain and there is an advantage in either adding a higher power or lower power capability through a dual layout.

1. Schematics

Figures 1 and 2 show schematics of the NSR003-020 and NSR040-060 Series evaluation boards.

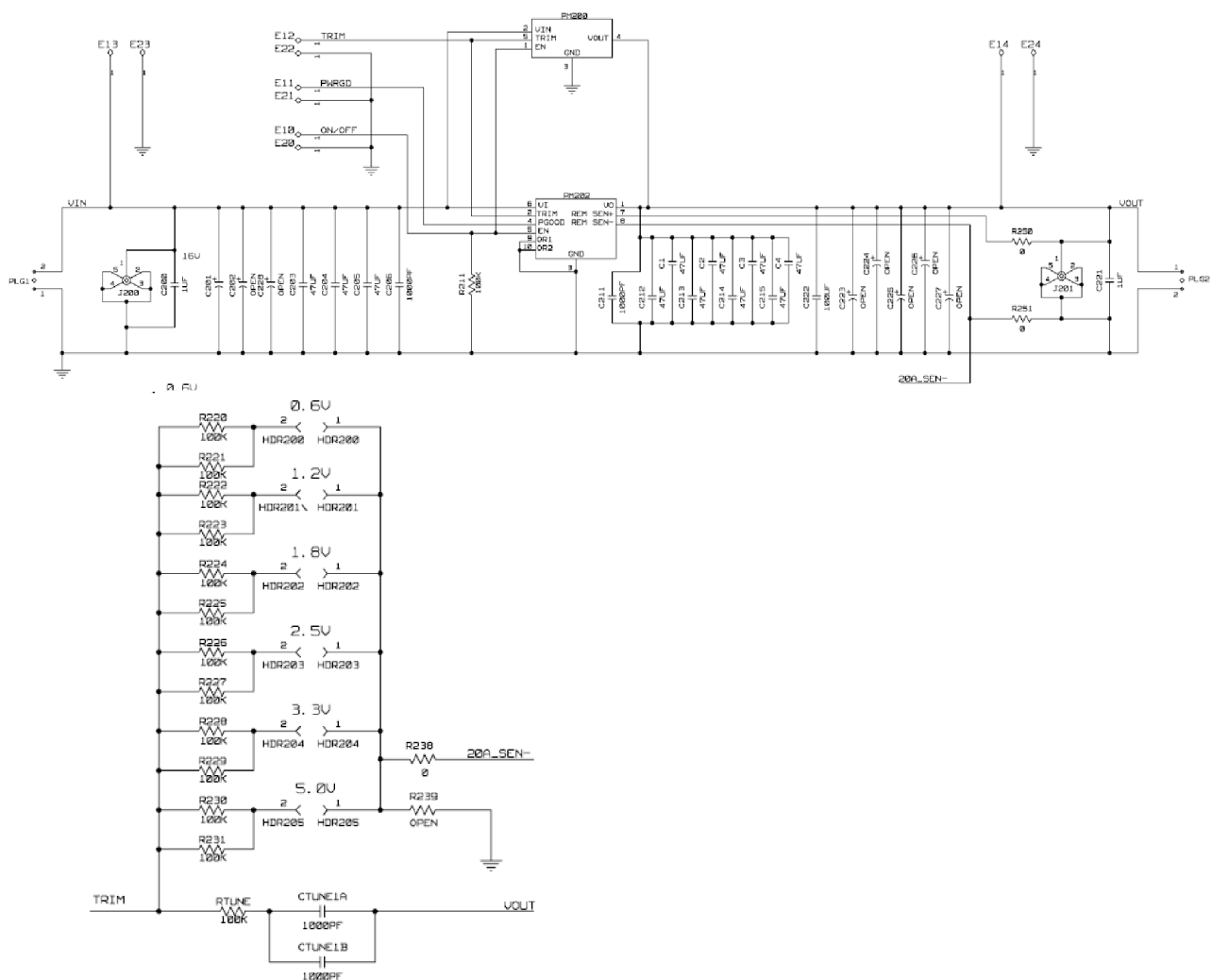


Figure1. Schematic of the NSR003-020 Series Evaluation Board.

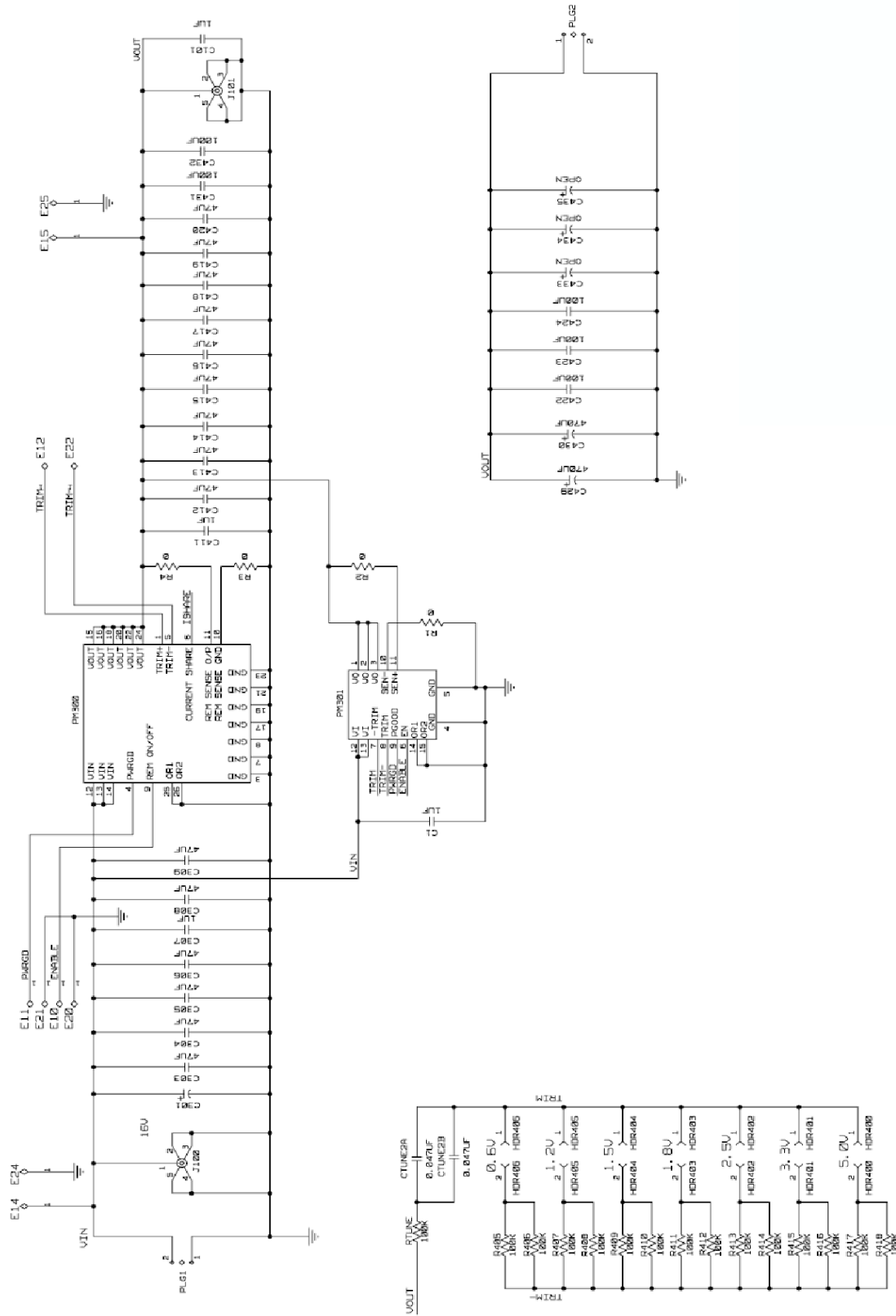
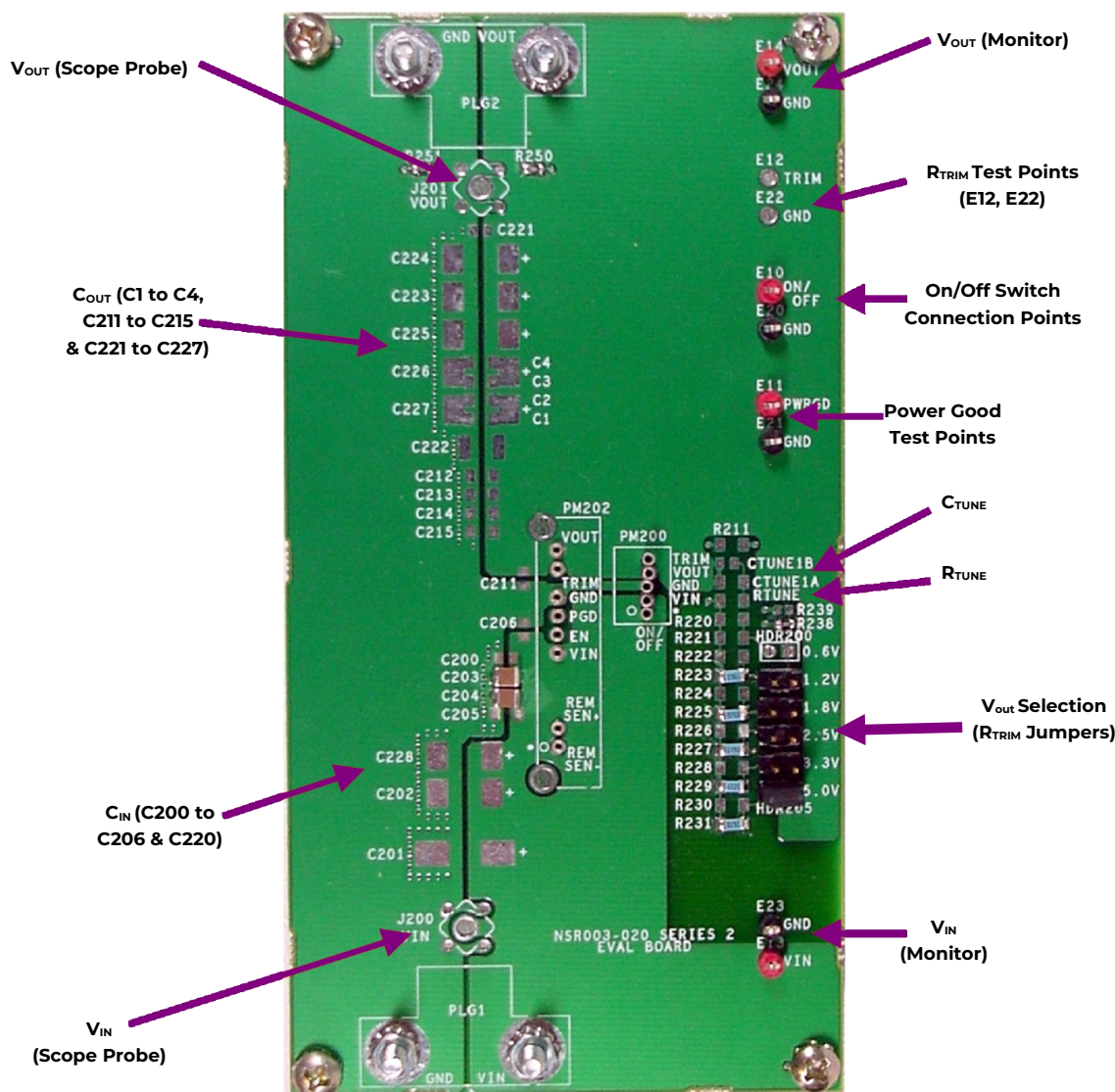


Figure 2. Schematic of the NSR040-060 Series Evaluation Board.

2. Physical Descriptions

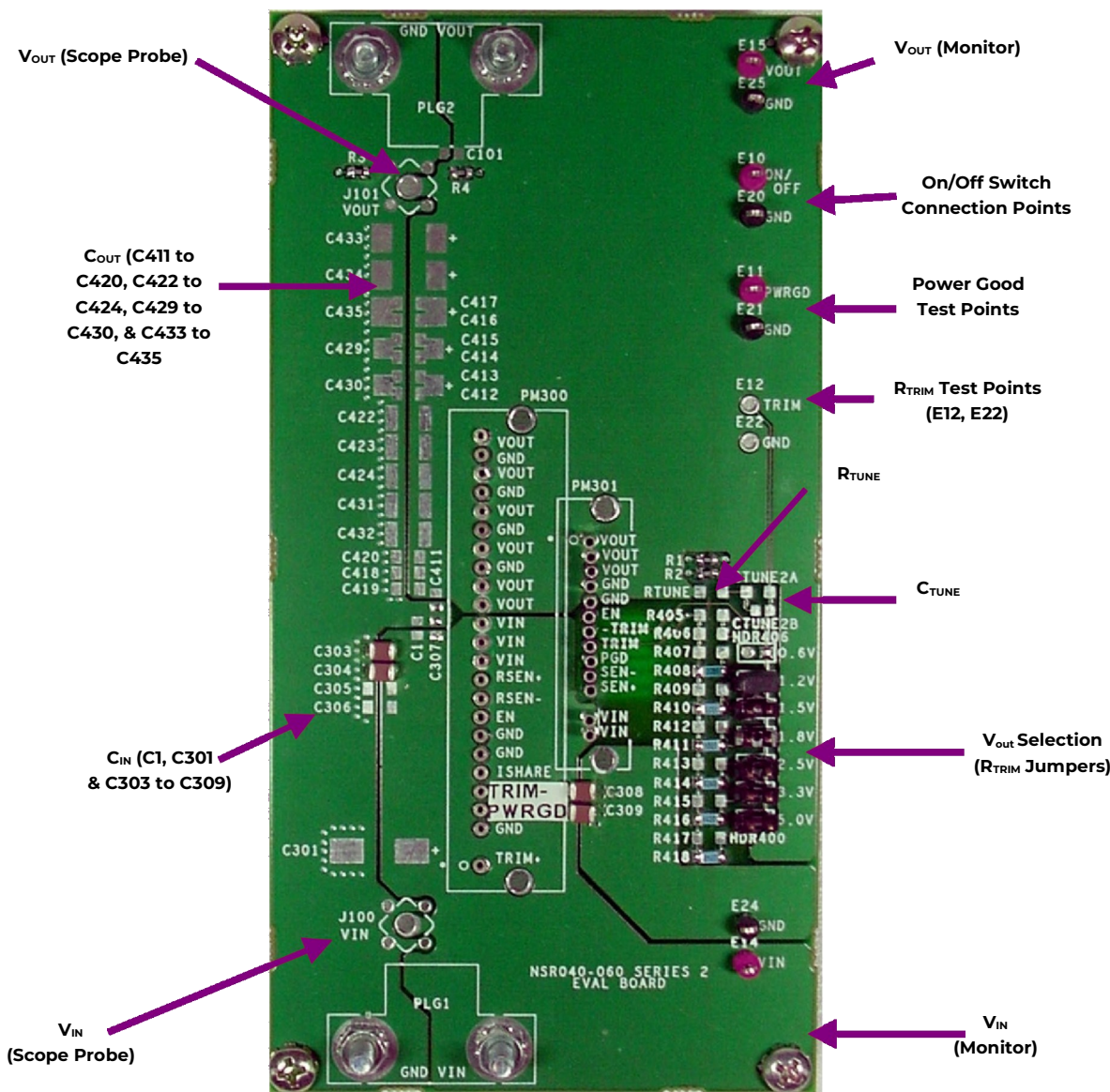
An annotated photograph of the **NSR003-020 Series Evaluation Board** is provided in the figure below. The notes indicate locations of various components. A minimum list of external components are the input filtering (2 x 22 μ F/16V ceramic capacitors are recommended as a minimum and are already assembled on the board) and some modest amount of output filtering (1 μ F+10 μ F ceramic).



Caution! Before applying power, make sure that the externally installed capacitors (both input & output) have appropriate voltage ratings based on applied input voltage and selected output voltage setting.

Note: In case a jumper is not available for the desired V_{out}, remove the **R_{TRIM}** jumper and attach a resistor (calculated from the data sheet for the desired V_{out}) at the **R_{TRIM} Test Points (E12, E22)** location.

An annotated photograph of the **NSR040-060 Series Evaluation Board** is provided in the figure below. The notes indicate locations of various components. A minimum list of external components are the input filtering (2 x 22 μ F/16V ceramic capacitors are recommended as a minimum and are already assembled on the board) and some modest amount of output filtering (1 μ F+10 μ F ceramic).



Caution! Before applying power, make sure that the externally installed capacitors (both input & output) have appropriate voltage ratings based on applied input voltage and selected output voltage setting.

Note: In case a jumper is not available for the desired V_{OUT}, remove the R_{TRIM} jumper and attach a resistor (calculated from the data sheet for the desired V_{OUT}) at the R_{TRIM} Test Points (E12, E22) location.

Contact Us

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