EVALUATION SYSTEM FOR ANALOG FILTER WIZARD

Using the Eval System

The Filter Wizard evaluation board system consists of a motherboard and several daughterboards. These boards are shipped unpopulated – use BOM and assembly information generated in Analog Filter Wizard to order components and assemble complete filter design.

The motherboard/daughterboard system gives you the following advantages:

- Change stage order quickly – For example, to evaluate tradeoffs between various amplifiers (noise performance vs. input range, etc)
- Use different stage types in the same design – There are several daughterboard models to support different types of stages. These daughterboards can be mixed-and-matched in the same design. For example, combining stages that utilize both single and dual package op amps. Also, combine a low-pass and a high pass stage to create a band-pass filter.
- Measure individual stage performance easily – Single stages can be debugged in isolation.
  Filter Wizard Mother Board

Each motherboard has slots for four daughterboards, which correspond to a filter stage in a filter design. If the design requires more than four stages, multiple motherboards can be connected together.

Design files (including schematic, assembly drawing, and CAD files):

- EVAL-FW-MOTHER (zip file) – Motherboard for Filter Wizard evaluation system
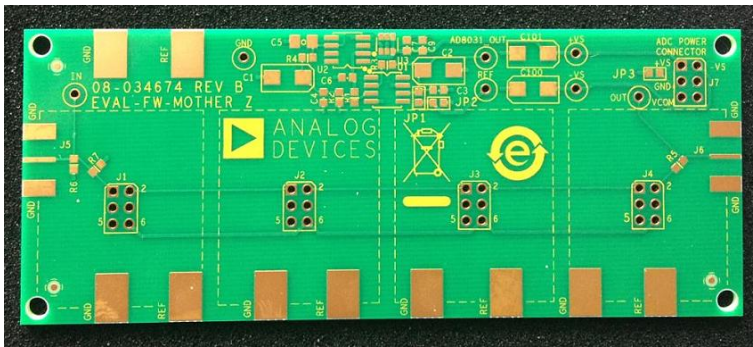
Daughter Boards: Single Op Amps

These daughter boards are designed for single op amp packages, and come as a snap-apart board consisting of four daughter boards. The daughter boards accommodate both SOIC and SOT-23 packages.

Design files (including schematic, assembly drawing, and CAD files):

- EVAL-FW-LPSK1 – Sallen Key low-pass filter stage for single op amps
- EVAL-FW-HPSK1 – Sallen Key high-pass filter stage for single op amps
- EVAL-FW-BPDF1 – Multiple Feedback (Deliyannis Friend) band-pass filter stage for single op amps
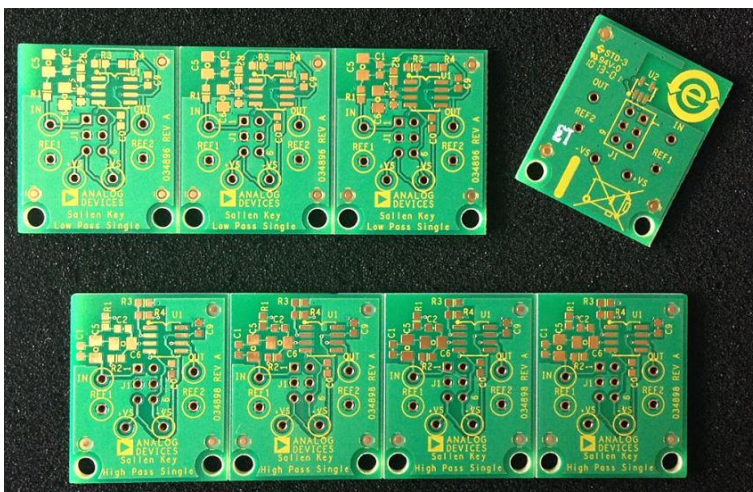
Daughter Boards: Dual Op Amps

These daughter boards are designed for dual op amp packages, and come as a snap-apart board consisting of four daughter boards. The daughter boards accommodate both SOIC and MSOP packages.

Design files (including schematic, assembly drawing, and CAD files):

- EVAL-FW-LPSK2 – Sallen Key low-pass filter stage for dual op amps
- EVAL-FW-BPDF2 – Multiple Feedback (Deliyannis Friend) band-pass filter stage for dual op amps
- EVAL-FW-HPSK2 – Sallen Key high-pass filter stage for dual op amps
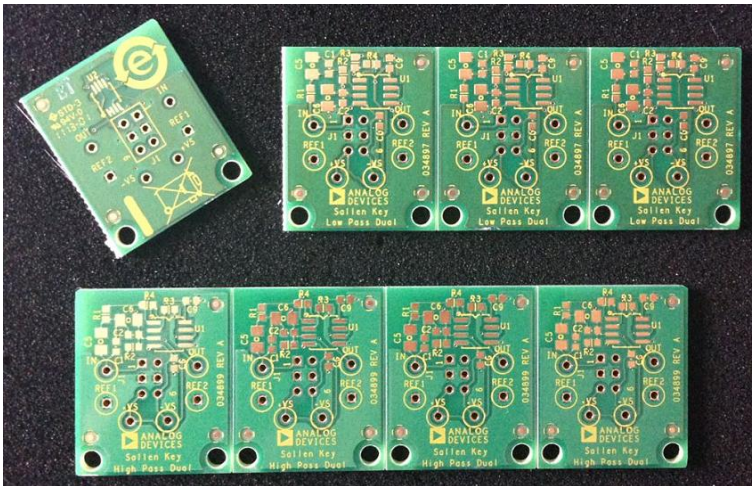
Model	Description
EVAL-FW-BPDF1Status: Production	Multiple Feedback (Deliyannis Friend) band-pass filter stage for single op amps
EVAL-FW-BPDF2Status: Production	Multiple Feedback (Deliyannis Friend) band-pass filter stage for dual op amps
EVAL-FW-HPSK1Status: Production	Sallen Key high-pass filter stage for single op amps
EVAL-FW-HPSK2Status: Production	Sallen Key high-pass filter stage for dual op amps
EVAL-FW-LPSK1Status: Production	Sallen Key low-pass filter stage for single op amps
EVAL-FW-LPSK2Status: Production	Sallen Key low-pass filter stage for dual op amps
EVAL-FW-MOTHERStatus: Production	Motherboard for Filter Wizard evaluation system