

PSRR and Digital Noise Evaluation Board

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Part Number: INTRFCEV

Documentation & Software

The PSRR and Digital Noise Evaluation Board (104-00139) is designed to explore and quantify the effects of power and digital noise on system performance. These experiments will help system designers understand the impact that power and digital noise can have in their design.

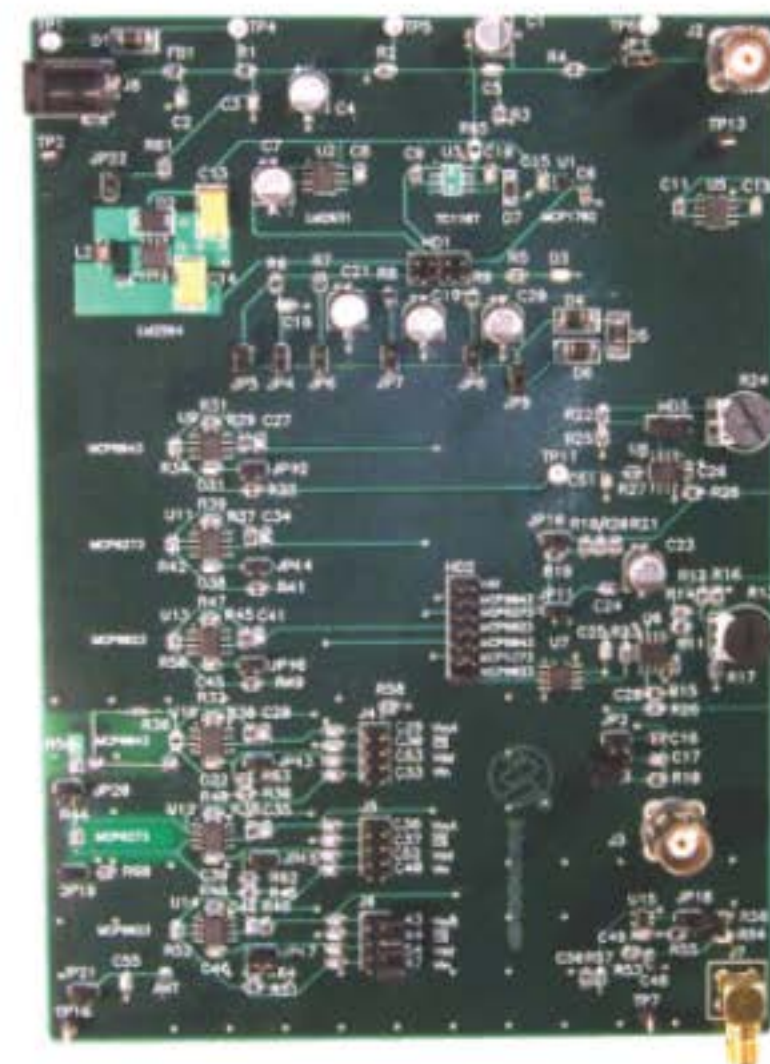
The PSRR and Digital Noise Evaluation Board supports measurement of Power Supply Rejection Ratio (PSRR) performance of Operational Amplifiers, as well as illustrates effects of Digital Interface spikes on Chip Select pins (and VDD, VOUT, VIN pins). The various measurements demonstrate importance of IDDQ on PSRR and Digital Noise performance.

A variety of Op Amps and Low Dropout regulators, and one Switching Regulator, plus selectable low-pass RC filters in VDD, allow the student to evaluate output (sinusoidal) noise versus sinusoidal frequency.

The PCB uses individual Gain=100 Op Amp circuits, plus Gain=10 output coaxial driver, achieving an referred-to-input resolution of 1 microvolt or less.

The PCB generates 0.25volt Digital Spikes, with 1 nanoSec edges, for injection into an Op Amp. With DVM monitoring, sub-microvolt effects are easily observed.

An un-populated SMA footprint allows Radio Frequency injection, to examine Op Amp behavior with modulated BlueTooth or Cell Phone signals.



Features

Package Contents

N/A

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Documents	Last Updated	Size	
PSRR and Digital Noise Evaluation Board Labs (powerpoint)	11/29/2007 3:40:44 PM	285KB	
PSRR and Digital Noise Evaluation Board Gerbers	11/29/2007 3:31:52 PM	365KB	