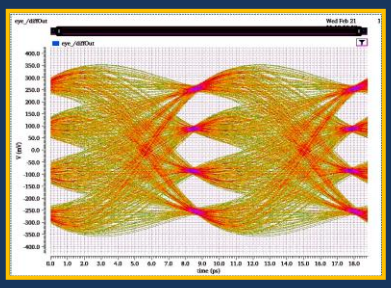
FMAX Technologies

FX2100A: Single Channel Linear Variable Gain Amplifier with Continuous Time Linear Equalization



Description

The FX2100A is a single-channel variable gain amplifier (VGA) with variable equalization and a selectable output filter. Gain, equalization, and filter selection can be adjusted through analog control signals. Low frequency gain calibration is accessible through automatic test bus. EQ boost can be determined through the ATB also.

- 1kV HBM ESD input/output protection
- 3.3V and -5V supplies
- TBD-Watt Power dissipation
- 2.5mm x 2.2mm Die Size
- Wire bonded
- Chip-in-well Packaging for Low Inductance
- Allows for Noise Optimization of S/H DSO, ADC
- Extends Dynamic Range for S/H DSO
- Programmable Gain, Equalization, and Filtering

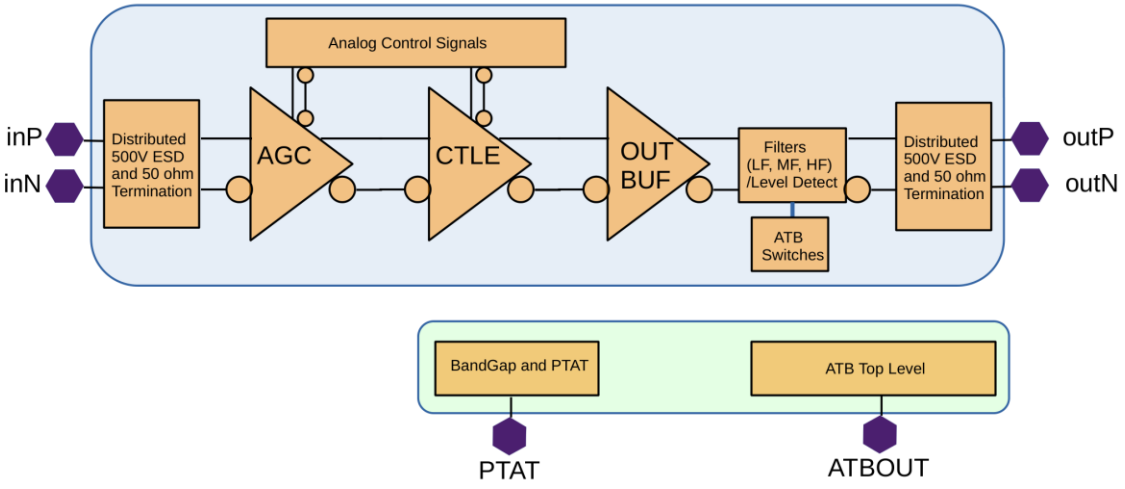
Applications:

» Noise, Gain, Skew Optimization of Instrument Channel

- DSO
- ADC
- S/H

FX2100A Features

- 100GHz baseline bandwidth
- +1dB to +11dB Low Frequency Gain Range
- Equalization Settings from +11dB to +20dB
- Automatic Test Bus (ATB)
- 1V Peak-Peak Maximum Linear Output Voltage Swing
- TBD RMS Input Referred Noise
- Three Spectral Band (EQ) Monitors accessible through ATB
- PTAT Temperature Monitor Pin
- Gain and EQ Control Via Analog Inputs



Technical Support:
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