Proto II Preamplifier Rel2

Requirements

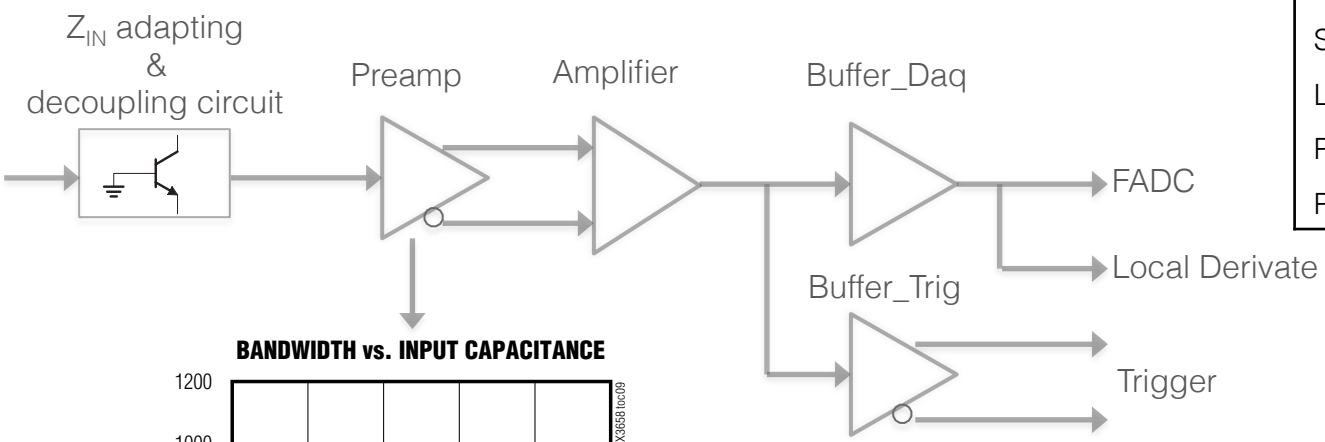
- *BW ≈ 350 MHz*
- *Gain ≥ 5 mV/fC*
- *Noise ≤ 2000 erms*

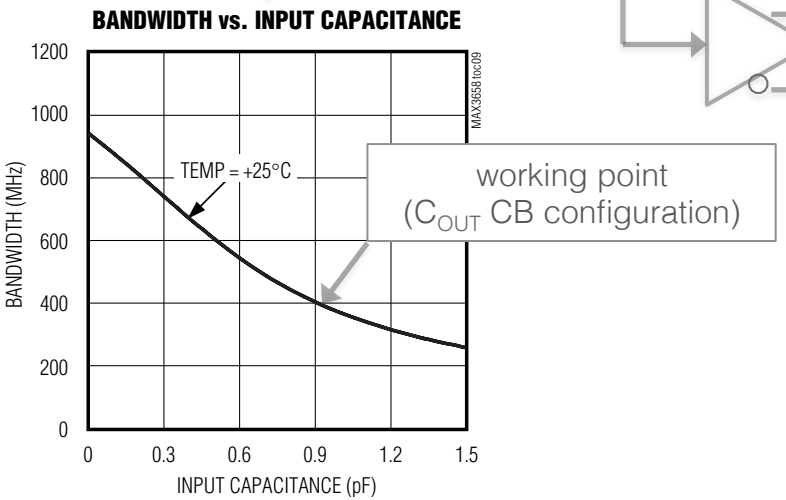
BW ≈ 350 MHz

Z_{IN} decoupling	BFP740 SiGe Transistor (BW > 10 GHz)
Preamp	MAX3658 (BW ≥ 350 MHz)
Amplifier	CLC1606 (BW ≥ 1 GHz @ G = 2)
Buffer_Daq	CLC1606 (BW ≥ 1 GHz @ G = 2)
Buffer_Trig	THS4503 (BW ≥ 370 MHz @ G = 1)

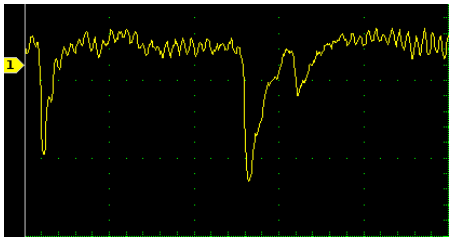
SCHEDULE

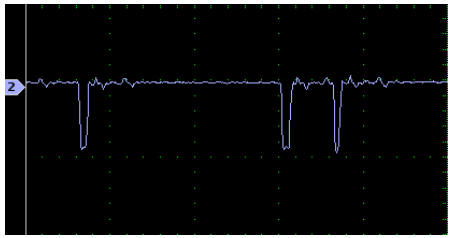
Schematic	OK
Layout	14/09
Prototype	05/10
Production	19/10

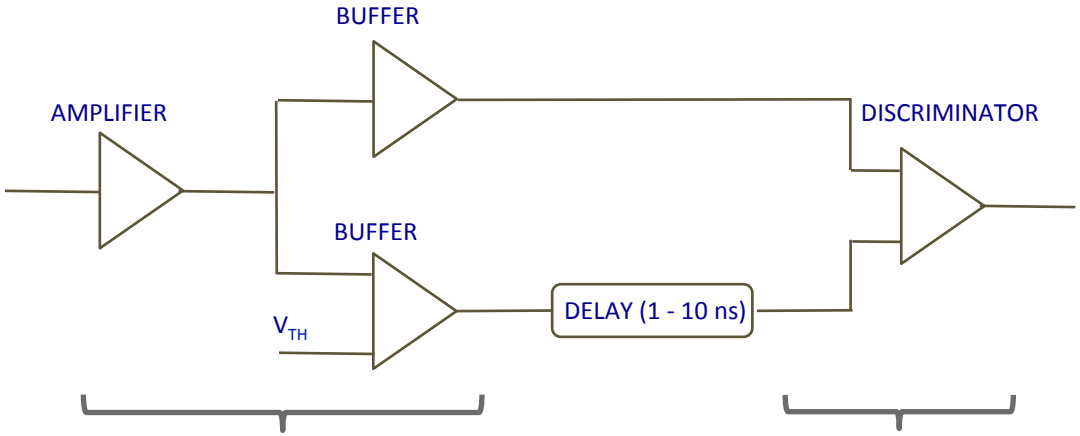




Local Derivation circuit new implementation







Main Features

- VME mechanics
- 8 channels
- Single-ended output
- Differential output
- BW > 500 MHz