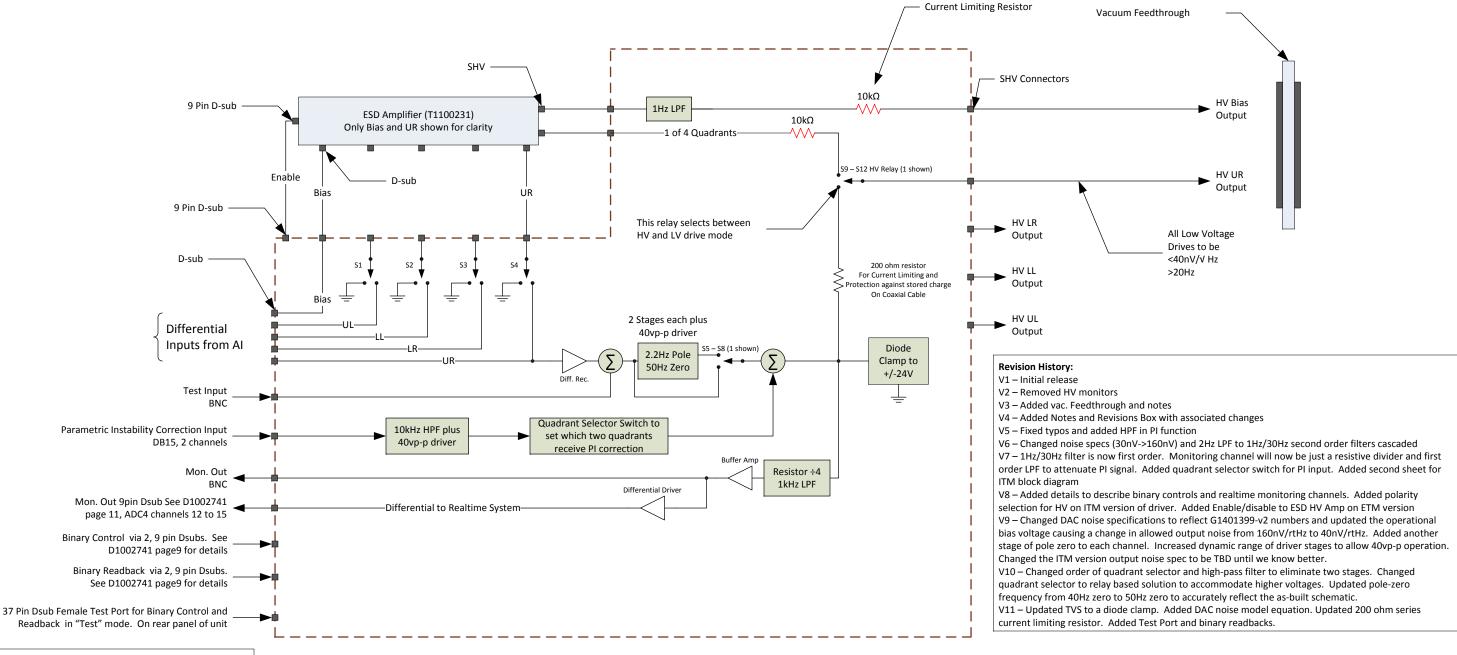
## **ETM ESD Low Voltage Driver and Monitor**



## **Bit Level Binary Control List**

- 1. 4 channels input switching for signals going to ESD HV amp
- 2. 2 channels PI Quadrant select
- 3. 4 channels of de-whitening bypass
- 4. 1 channel for ESD HV amp remote ON/OFF (the ESD HV amp needs +5V applied for less than 1 second will toggle the state)
- 5. 4 channels HV Relay control to switch from HV to LV mode

Total Count 15 channels. There are 8 channels per SUS binary output 9 pin D-sub. Per D1002741 page9, there are plenty of extra binary IO channels

$$v_n = \sqrt{300^2 (50 \,\text{Hz}/f)^2 + 300^2} \,\frac{nV}{\sqrt{\text{Hz}}}$$

DAC Noise Model from G1401399-v2

## **Bit Level Binary Control List**

- 1. 1 channel HV bias polarity Select
- 2. 2 channels PI Quadrant select
- 3. 4 channels of de-whitening bypass

Total Count 7 channels. There are 8 channels per SUS binary output 9 pin D-sub, per D1100022 page 12, 13, and 14, there are plenty of spare channels

## ITM ESD Low Voltage Driver and Monitor

