

Figure 1: Block diagram of LTARS16A

Table 1: Characteristics of LTARS16A

| | Measurements (Design value) |
|--------------------------------|-----------------------------|
| Peaking time (μs) | 1.0~1.2 (1.0) |
| Conversion gain (mV/fC) | 0.6 (0.5) |
| Dynamic range (fC) | -1400~0 (-1600~0) |
| Equivalent Noise Charge (e) | ~40000 (<62500) |

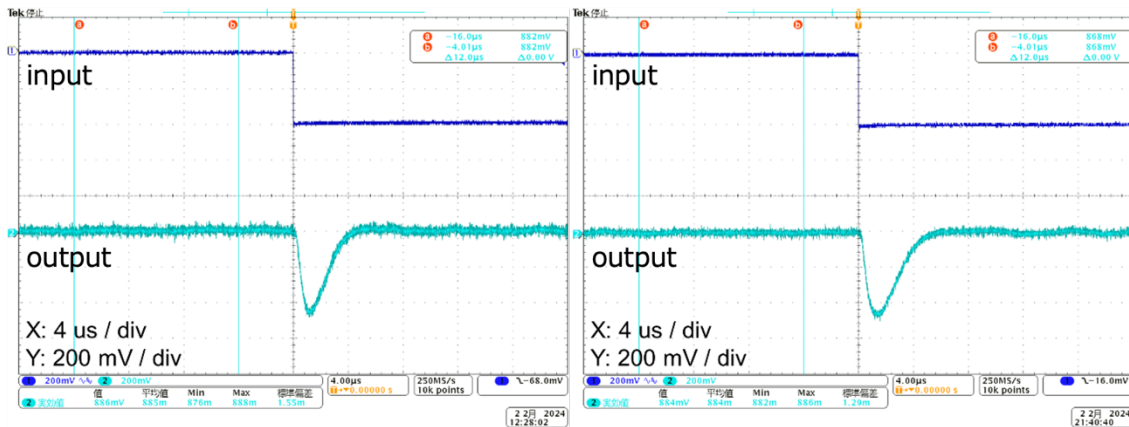


Figure 2: Analog signal output for an input charge of -800 fC at room temperature (left) and 77 K (right)

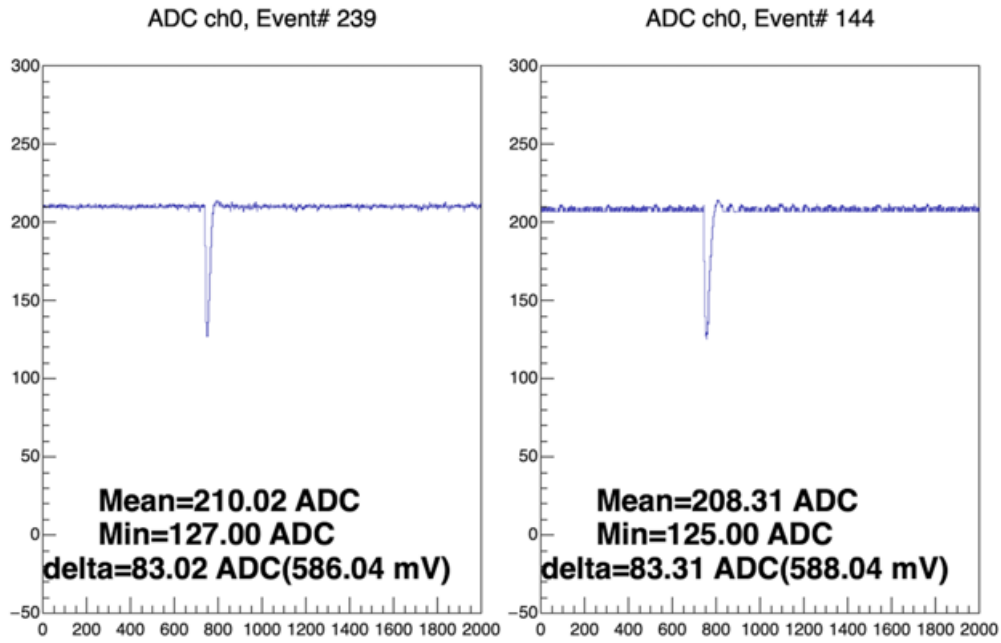


Figure 3: Digital signal output for an input charge of -800 fC at room temperature (left) and 77 K (right)