TLV93351

12-bit ADC for ammeter and ohmmeter

b

<https://www.mouser.com/ProductDetail/Microchip-Technology/MCP3201-CI-SN?qs=9y3LFqDLL8L6Qsy36gCZ%252Bw%3D%3D>

* 400uA maximum active current
* Industrial temp range to 85 C
* SOIC-8
* Pseudo-differential input
* VDD max 7V
* All inuts and outputs -0.6 V to VDD + 0.6V
* Ref input VDD max
* Ref input Current drain typically 100uA and max 150 uA
* Vss = ground.
* IN- min is Vss - 100 mV, max Vss + 100 mV
* Switch resistance typically 1K
* Input and Output leakage current 10uA
* Input and output capacitance = 10pF
* Operating voltage Min (V\_DD) = 2.7V, Max = 5.5V.
* Operating Current (I\_DD) = 300uA typically, 400 uA Max
* Standby Current (I\_DDS) = 0.5uA typically and 2uA Max.
* Thermal Package resistance 8L-SOOIC = 149.5 C/W
  + 12 bit resolution
  + SPI (mode 0,0 and 1,1).
  + Single supply operation 5.5V.
  + 100ksps clock up to 1.5 MHz
  + SINAD 72 is okay.

Multiplexer switch IC

CD74HC4051MM96EP

<https://www.mouser.com/ProductDetail/Texas-Instruments/CD74HC4051MM96EP?qs=v3qxQkrWm%2FCL%2Fgc291F%252BYw%3D%3D>