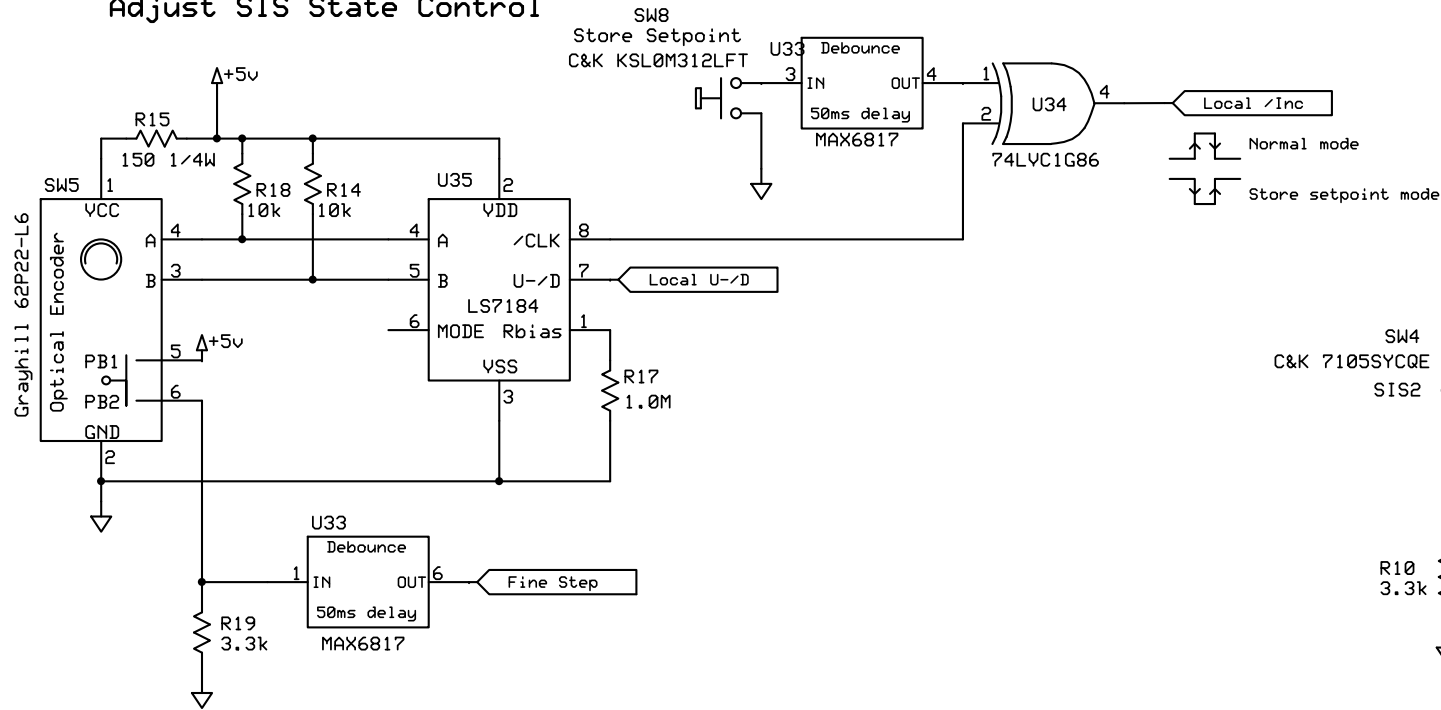
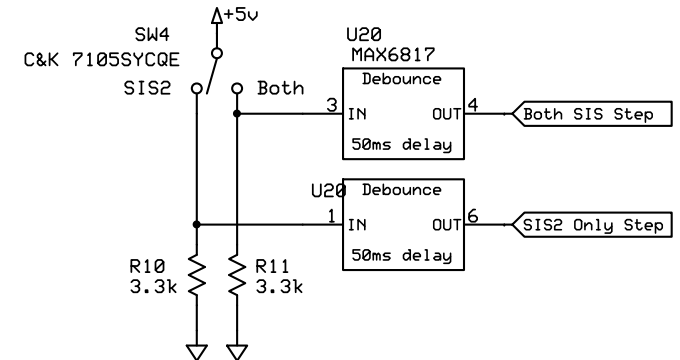


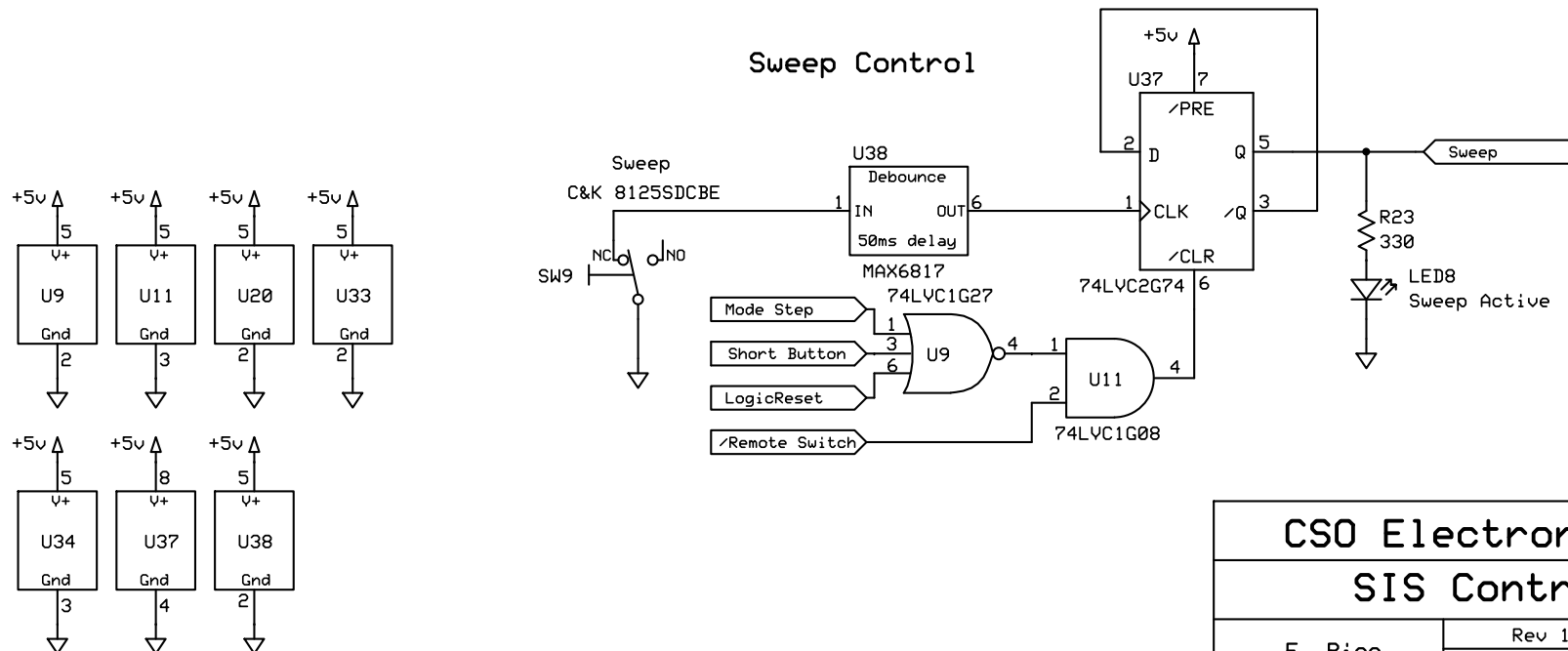
Adjust SIS State Control



Select SIS Control



Sweep Control



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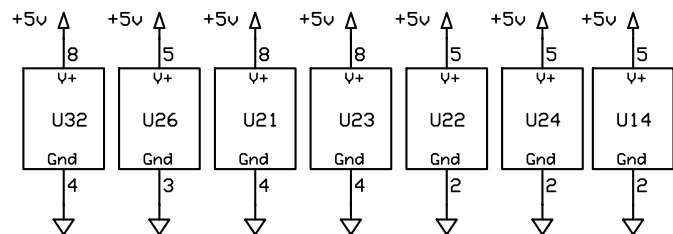
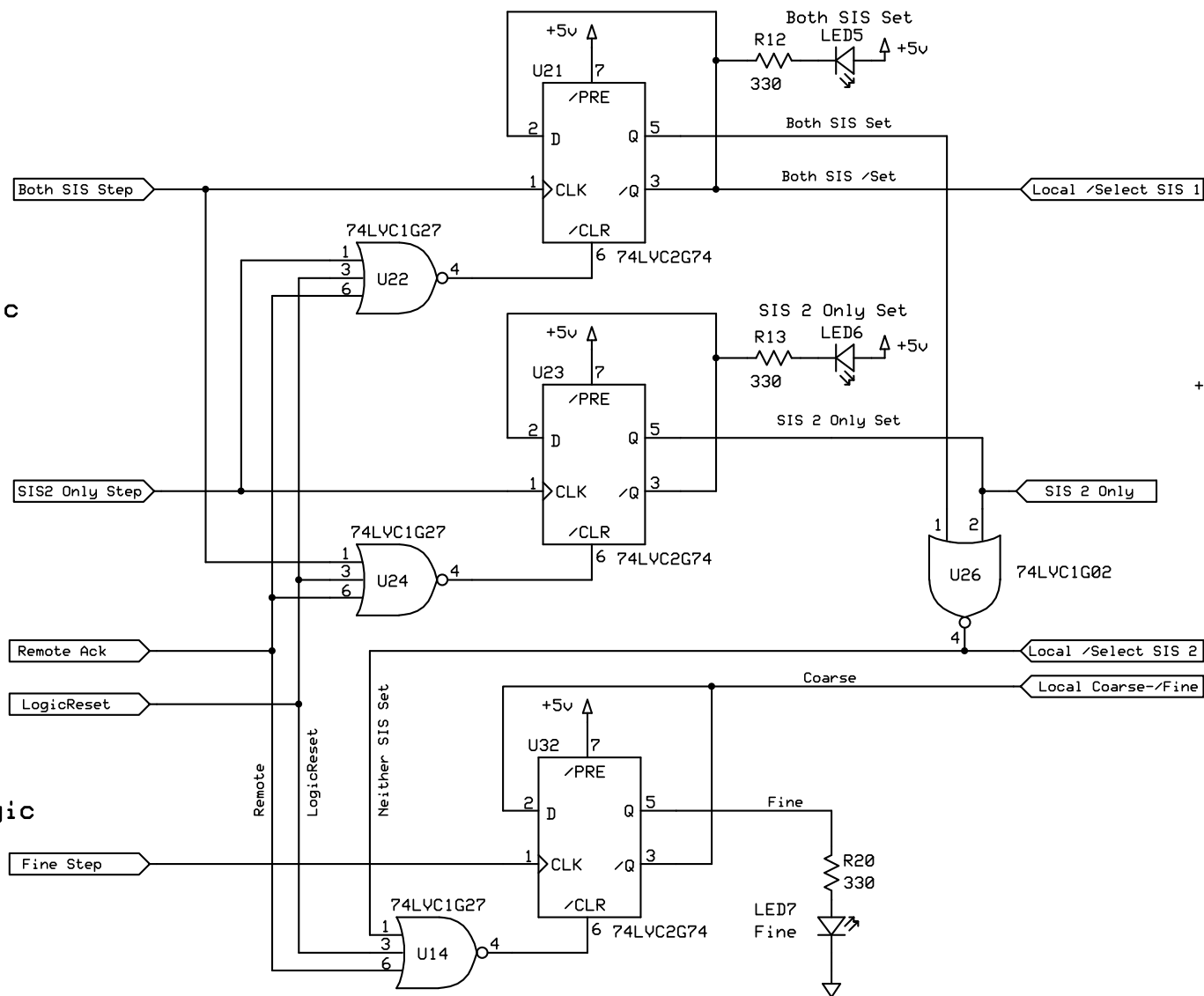
F. Rice

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SIS Select Logic

Coarse-Fine Logic



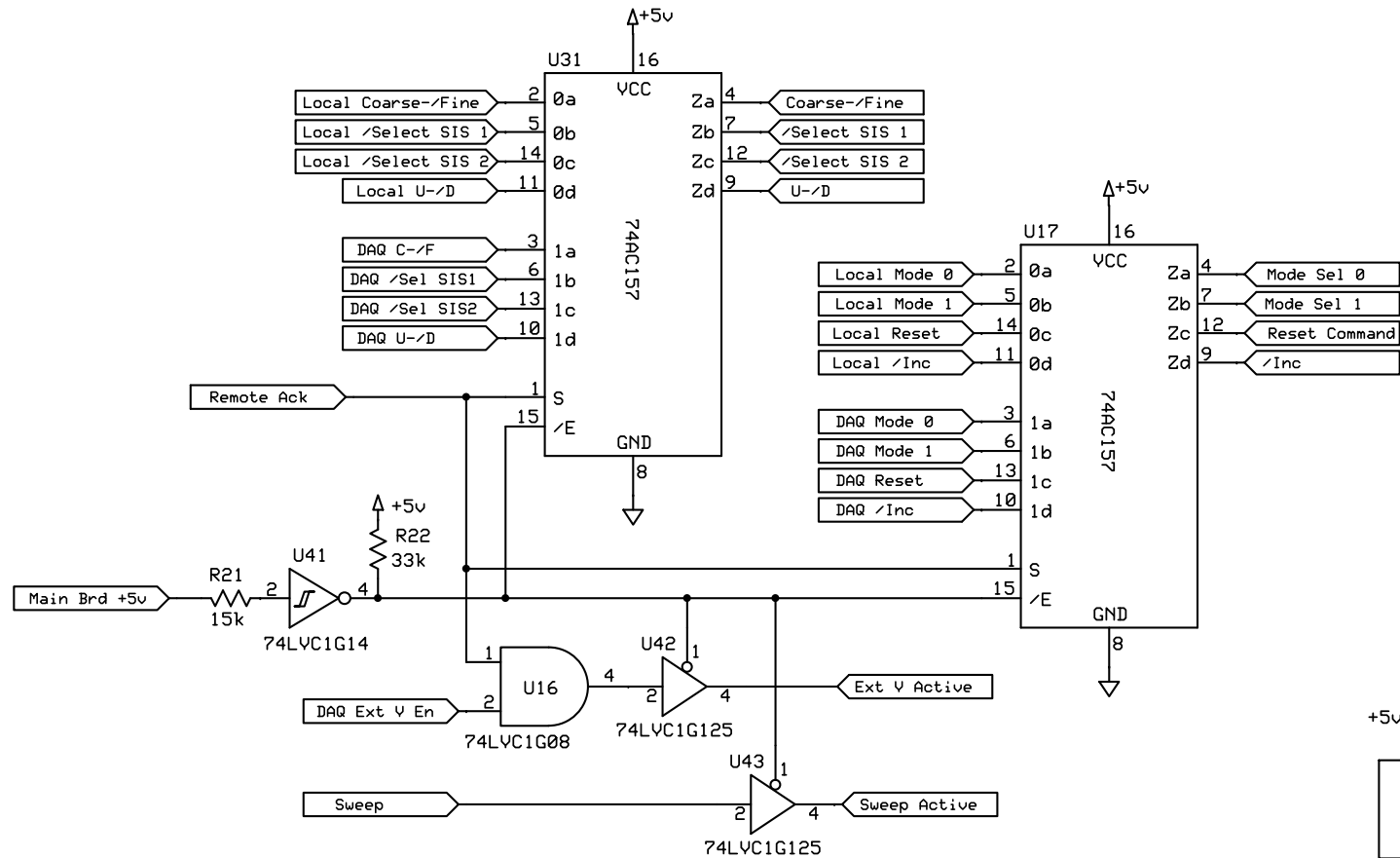
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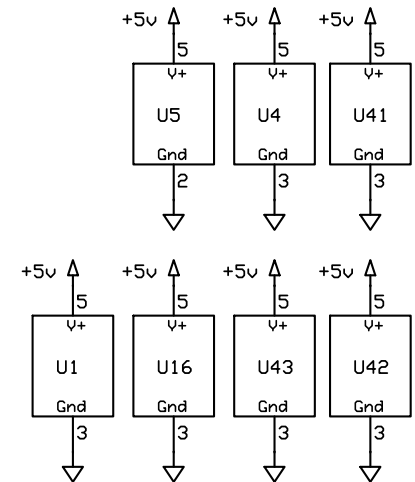
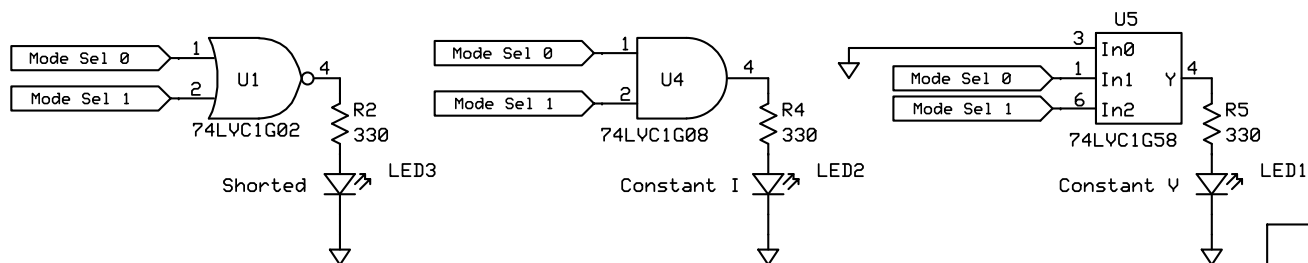
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Logic Signal Select



SIS Mode Indicators



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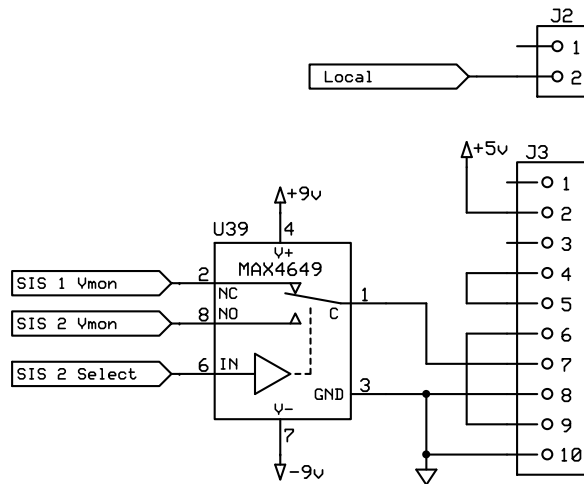
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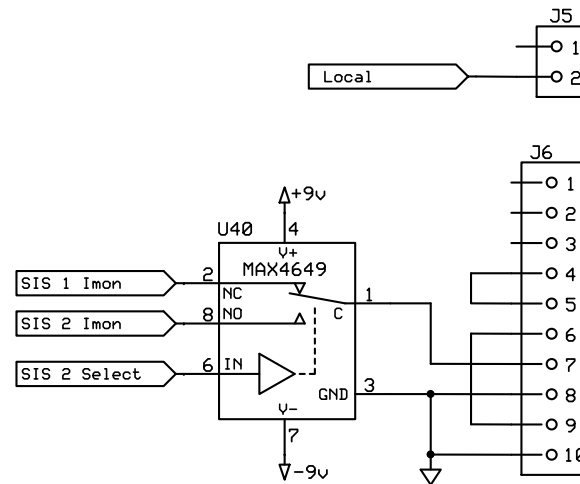
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Panel Meters

SIS V Panel Meter (mV)



SIS I Panel Meter (uA)

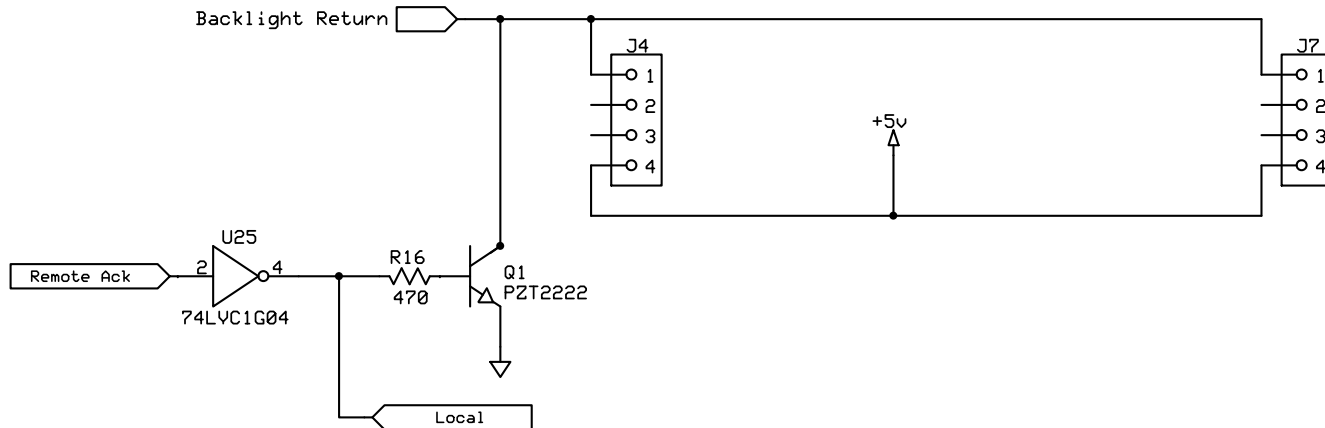


Connectors:

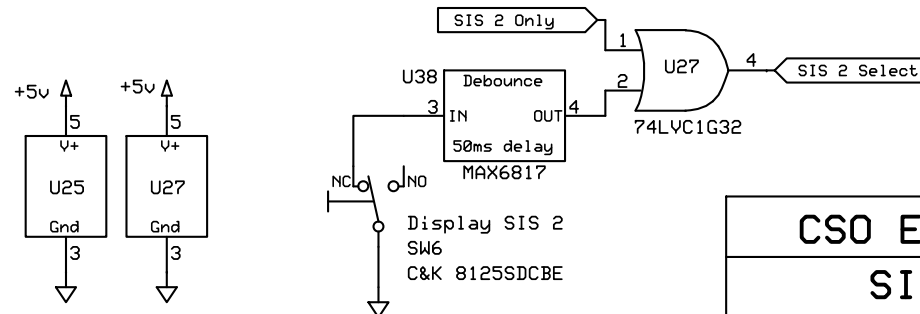
J2, J5: Molex/Waldom 44812-0020

J3, J6: Molex/Waldom 44812-0028

J4, J7: Molex/Waldom 44812-0022



SIS 2 State Display Control



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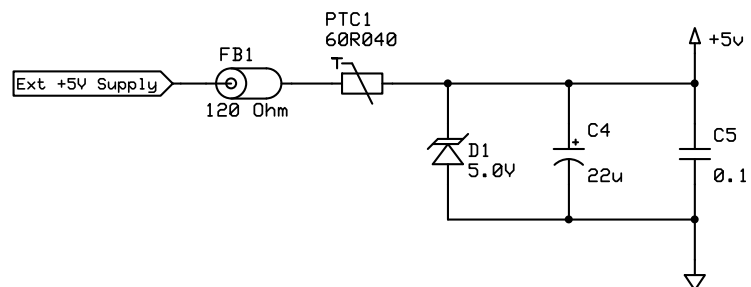
F. Rice

Rev 1.01

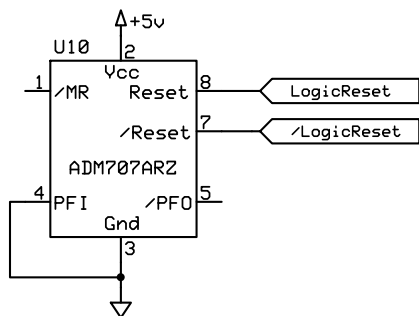
10/5/2010

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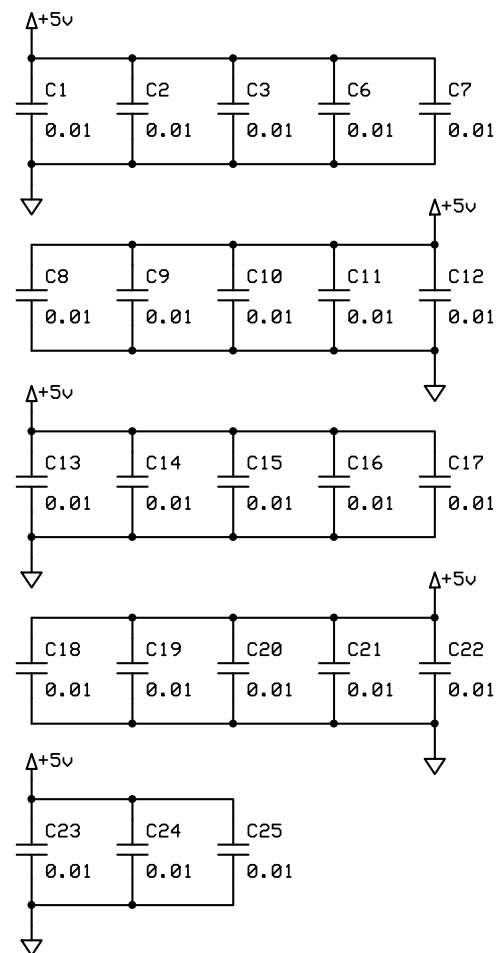
Power



Power-On Reset



IC Supply Bypassing



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General Notes

Resistors

Unless otherwise specified, resistors are size 0805, 1/10W or 1/16W, and may be thick or thin film

Unless otherwise specified, actual value used may be a standard 5% or 1% value within 10% of value shown

Capacitors

0.1uF capacitors are X7R ceramic 10V (or higher), 20% (or better), size 0805

22uF capacitors may be X5R ceramic or low-ESR tantalum 10V (or higher), 20%, size B/3528/3216/1210/1206

Digital Panel Meters and Monitors

The digital panel meters should be Jewel BL-3x0302-01 (5V supply, 2V full scale, green 5V backlight)

The meters and backlights are turned off when under remote control

The SIS voltage monitor inputs should have gain = 100 (10mV → 1V); meter full scale reading is 19.99mV

The SIS current monitor inputs should have gain = 1 kOhm (1000uA → 1V); meter full scale reading is 1999uA

Diodes

Diode D1 is silicon TVS 400W DO-214AC (Littelfuse SMAJ series or equivalent)

Diodes D2 and D3 are 1N4148W, case size SOD-323

LEDs have colors specified, 10 mA, T-1 with 0.465" (12mm) standoffs (CML 5310F series)

Circuit Board

Circuit board version "SIS Control v1.0" with date 9/2010

All controls and LEDs mount on the back side of the board

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