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AC_Current_Sensor.sch

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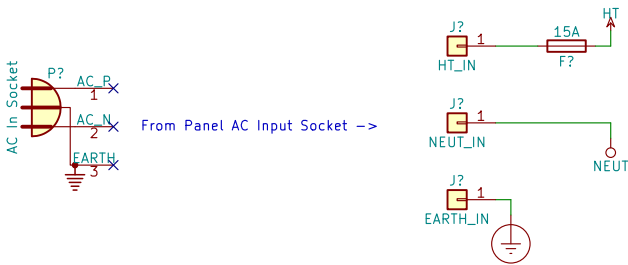
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Title:

Size: A Date: 2018-10-01
KiCad E.D.A. kicad (5.0.0)

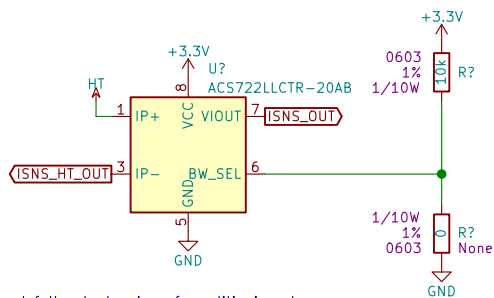
Rev: A
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AC Input Connections

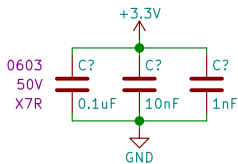


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AC Current Sensor

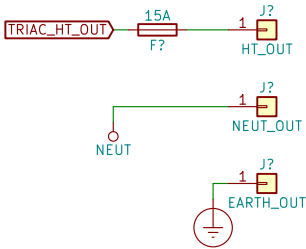


10.7ARMS Max to support full output swing of conditioning stages

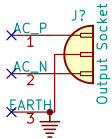


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KiCad E.D.A. kicad (5.0.0)		Id: 3/16

AC Output Connections

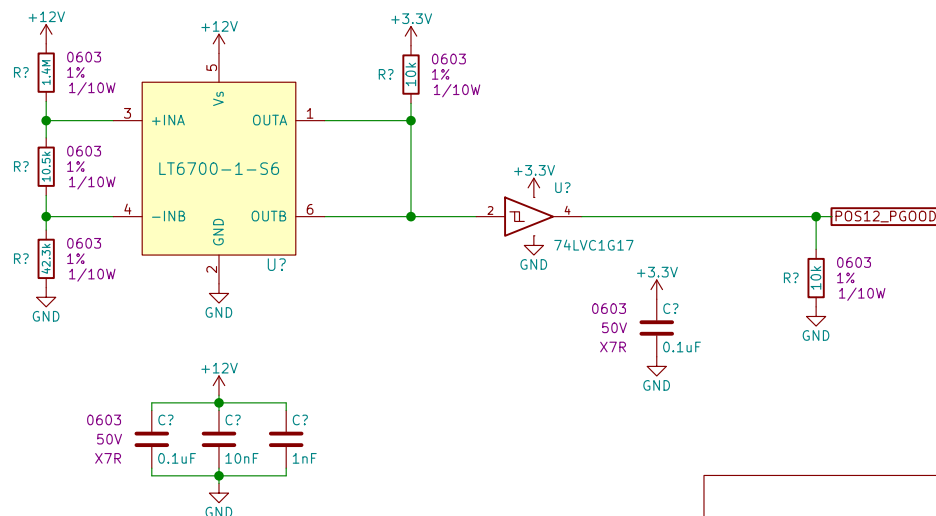
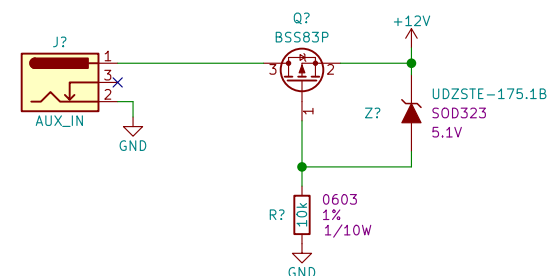
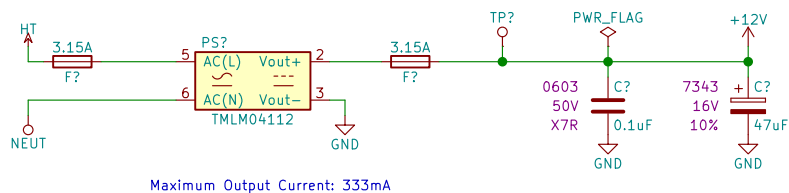


-> To Panel AC Output Socket



Sheet: /AC Output/ File: AC_Output.sch		
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+12V 4W Isolated AC/DC Converter, +12V PGOOD Window Comparator



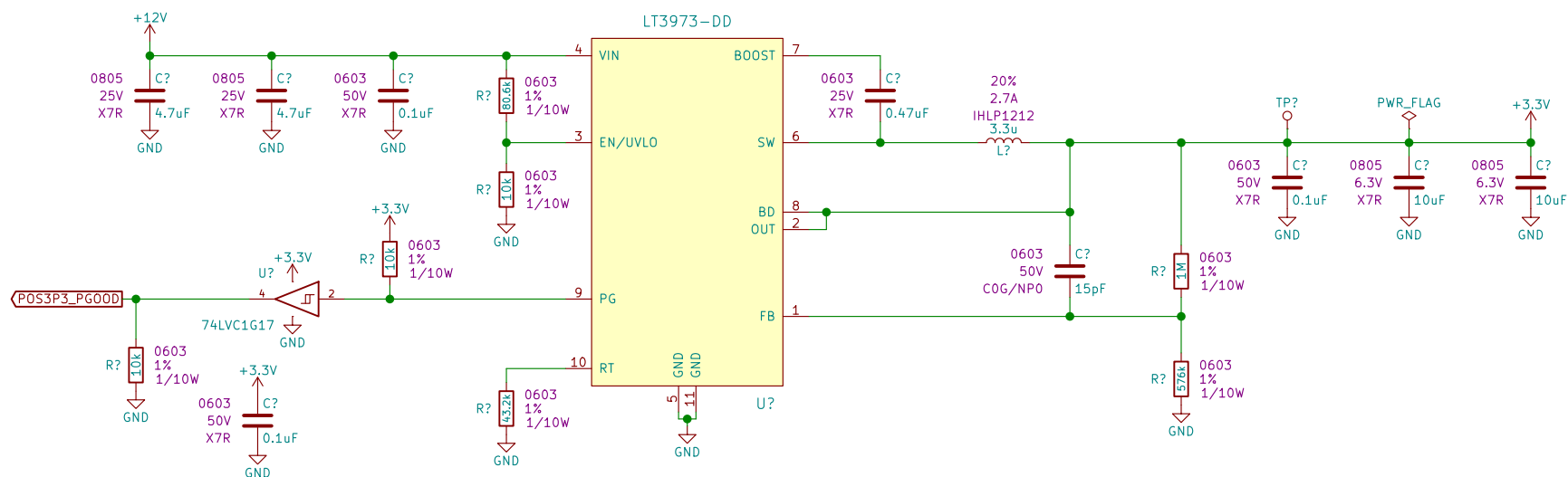
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Size: A Date: 2018-10-01
KiCad E.D.A. kicad (5.0.0)

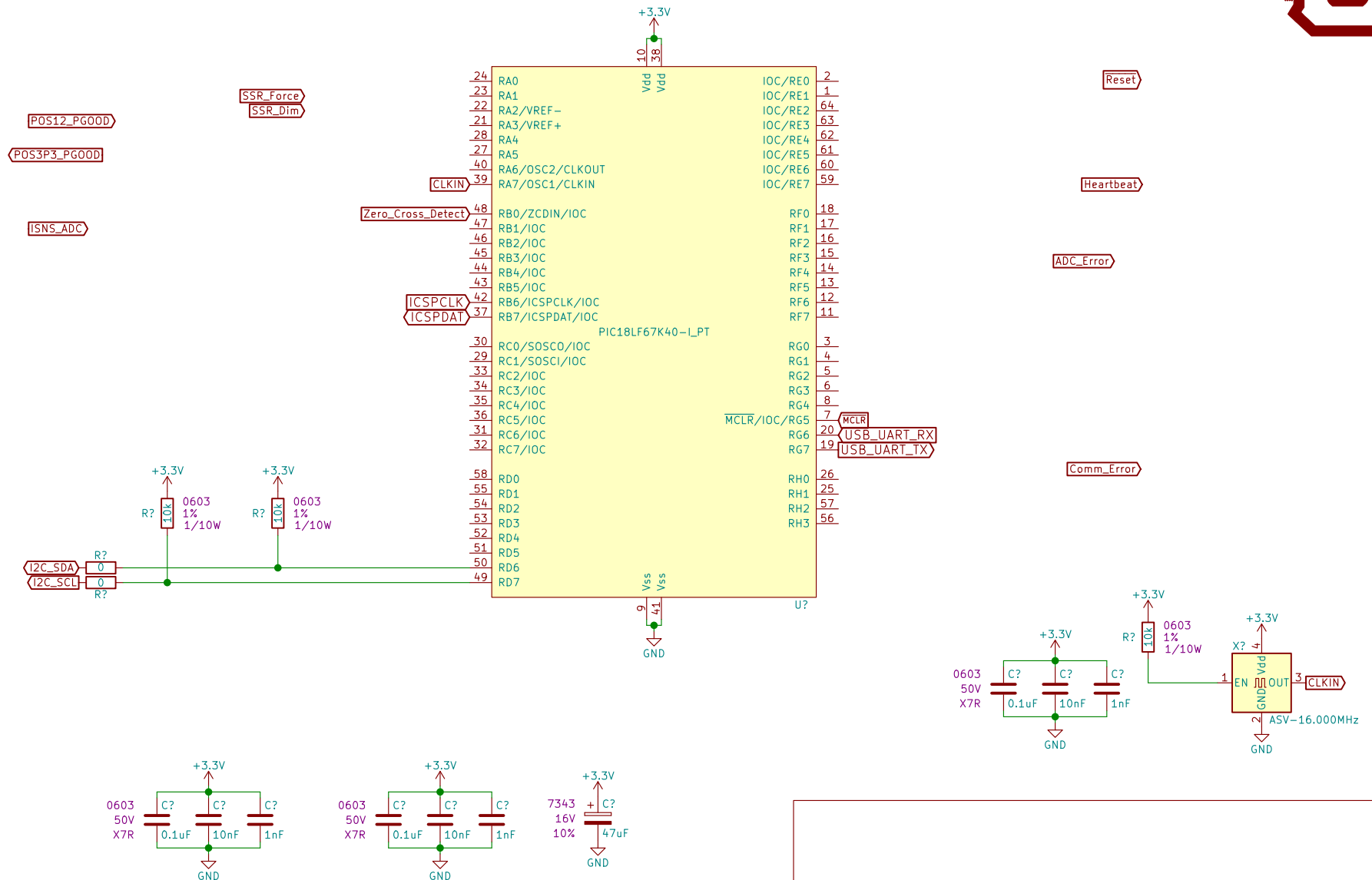
Rev: A
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+3.3V, 750mA, 2MHz Buck Converter



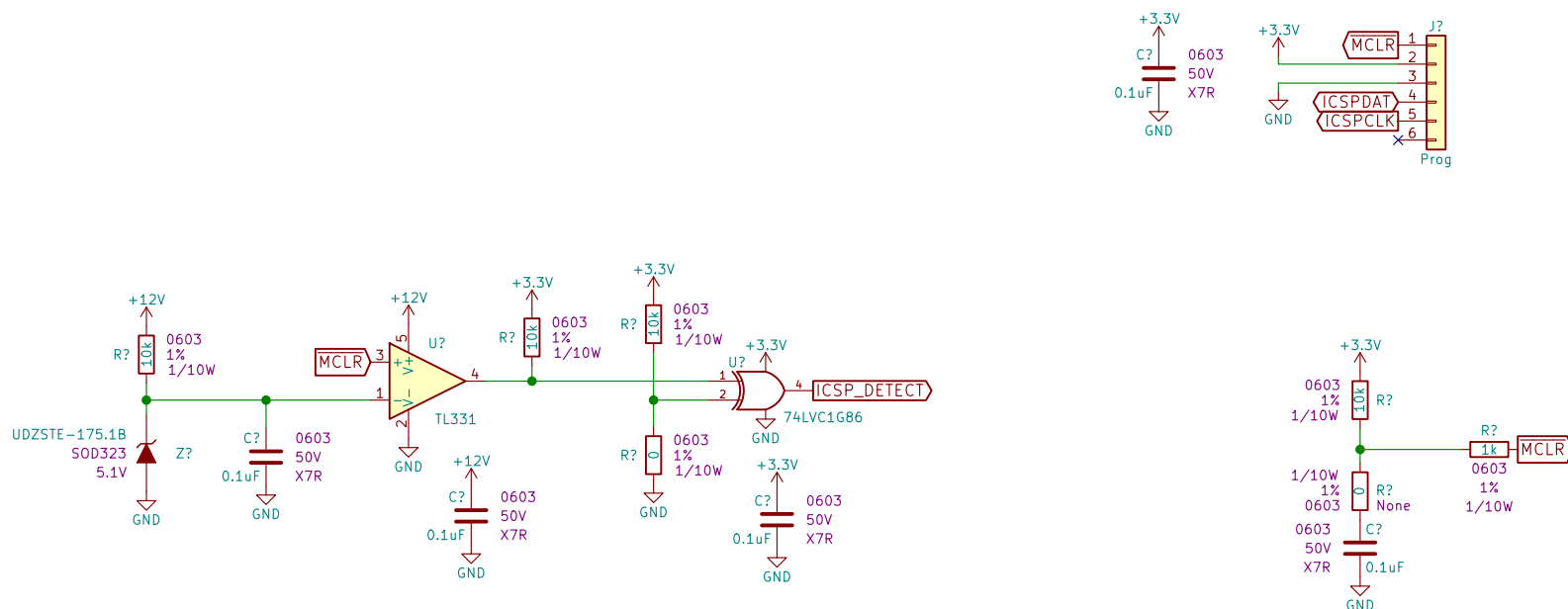
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8 bit High Performance Enhanced Flash PIC Microcontroller



Sheet: /Microcontroller/		
File: Microcontroller.sch		
Title:		
Size: A	Date: 2018-10-01	Rev: A
KiCad E.D.A. kicad (5.0.0)		Id: 7/16

Programming Header, MCLR Reset Filter, ICSP Detection



Sheet: /Microcontroller Programming/
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Title:

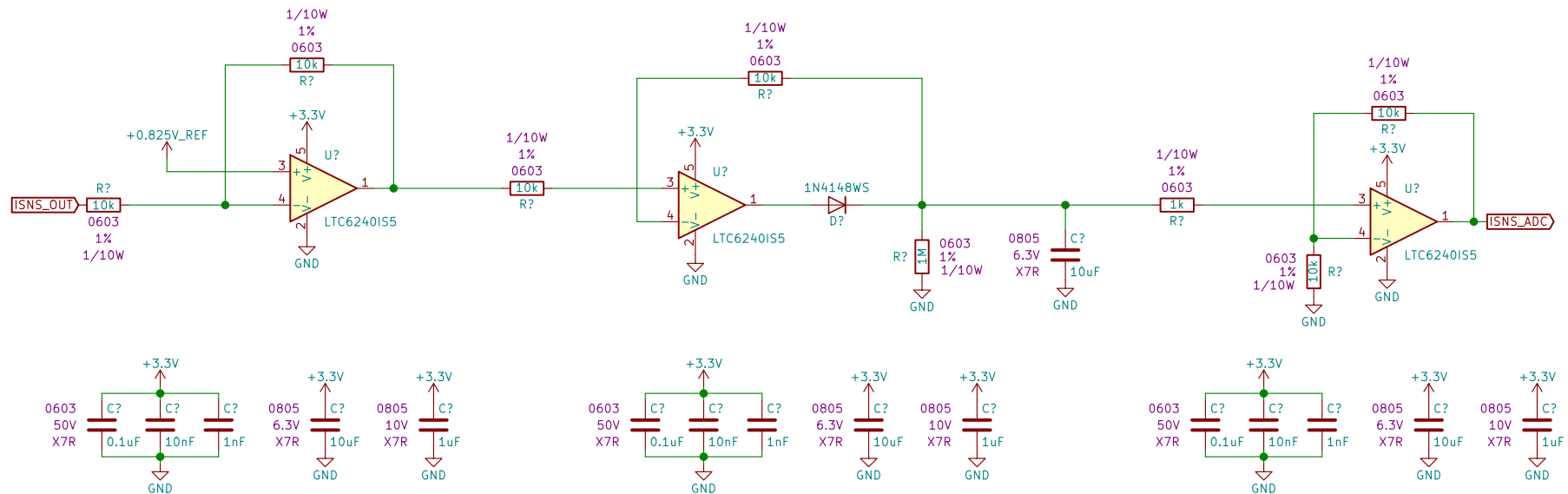
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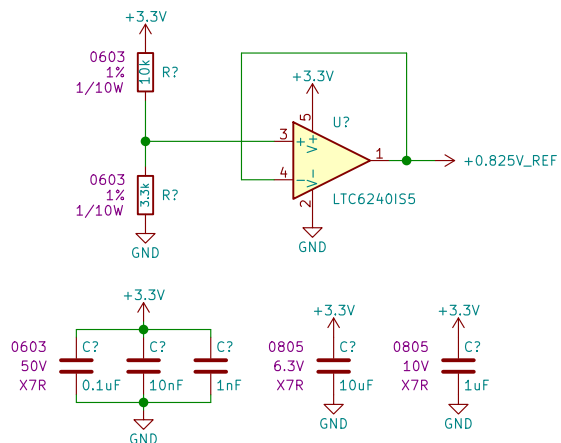
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Id: 8/16

Offset Removal, Active Peak Detector, 2V/V Gain Stage



ISNS_ADC Scaling: 5.35ARMS/V



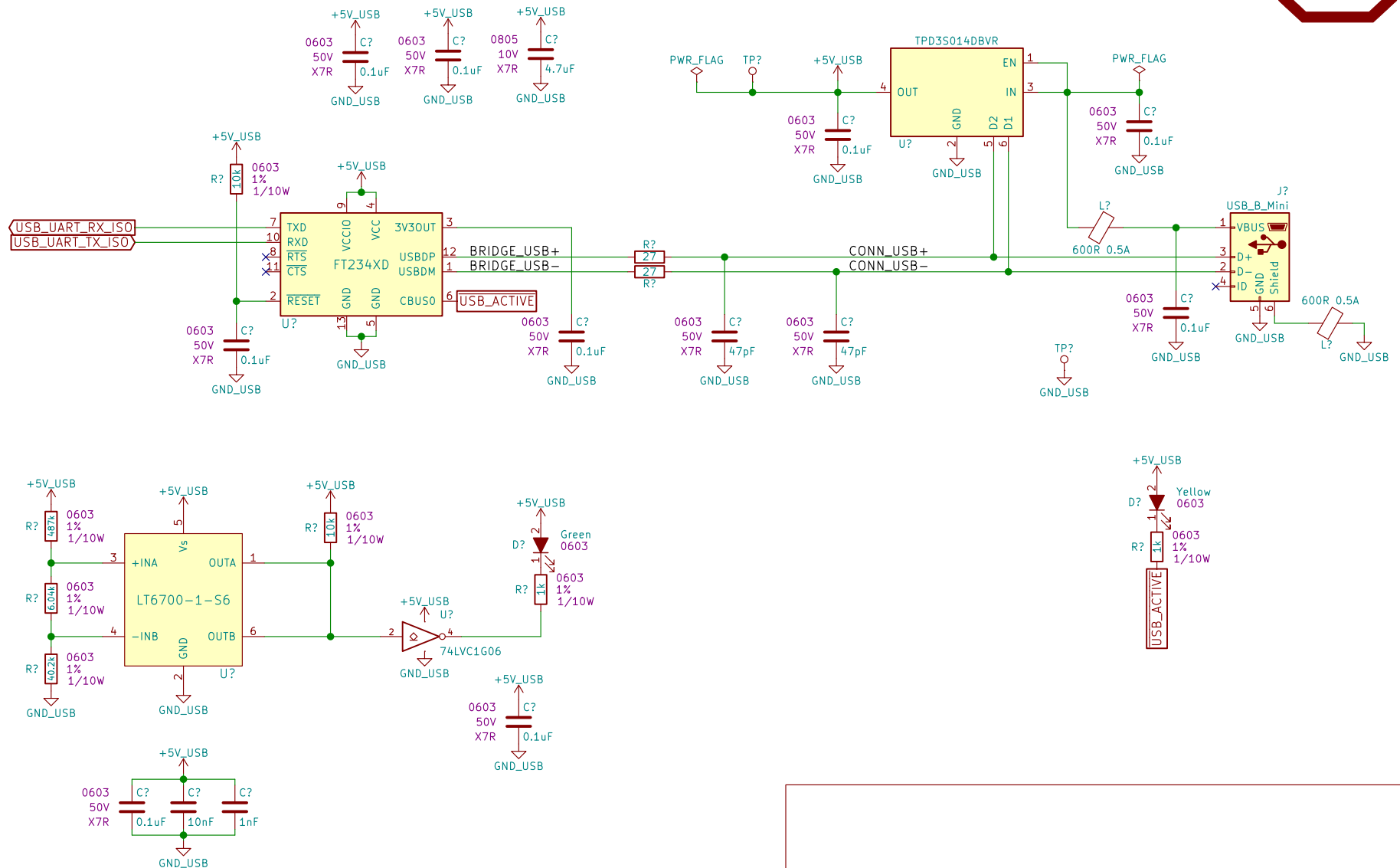
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Title:

Size: A Date: 2018-10-01
KiCad E.D.A. kicad (5.0.0)

Rev: A
Id: 9/16

UART to USB Bridge, +5V USB Window Comparator



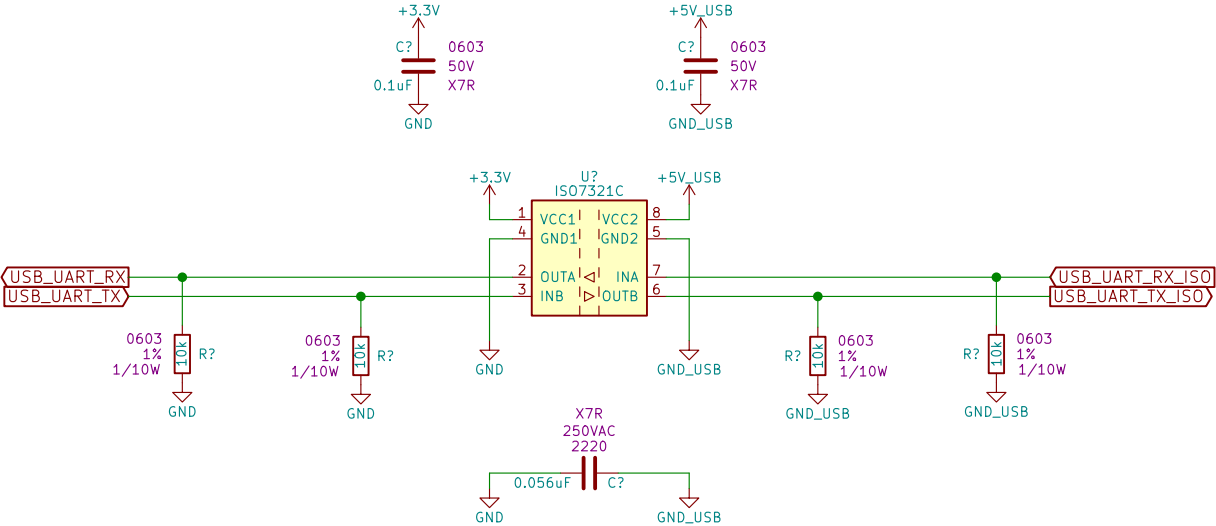
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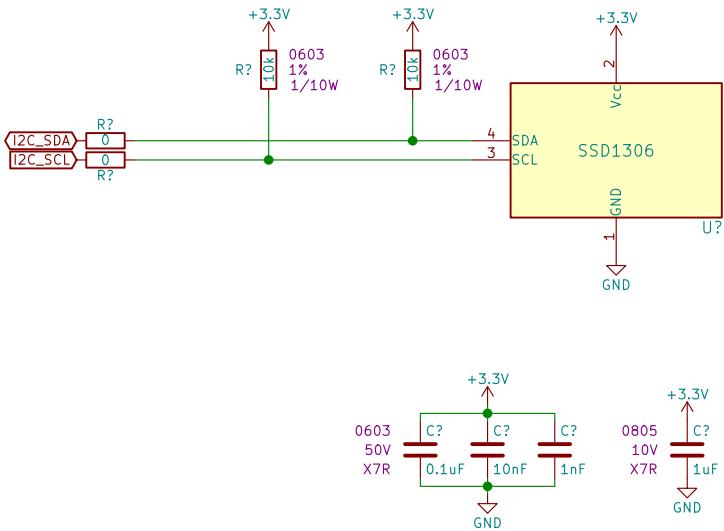
Rev:
Id: 10/16

USB UART Isolation



Sheet: /USB UART Isolation/ File: USB_UART_Isolation.sch		
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Size: A	Date:	Rev:
KiCad E.D.A. kicad (5.0.0)		Id: 11/16

OLED Display

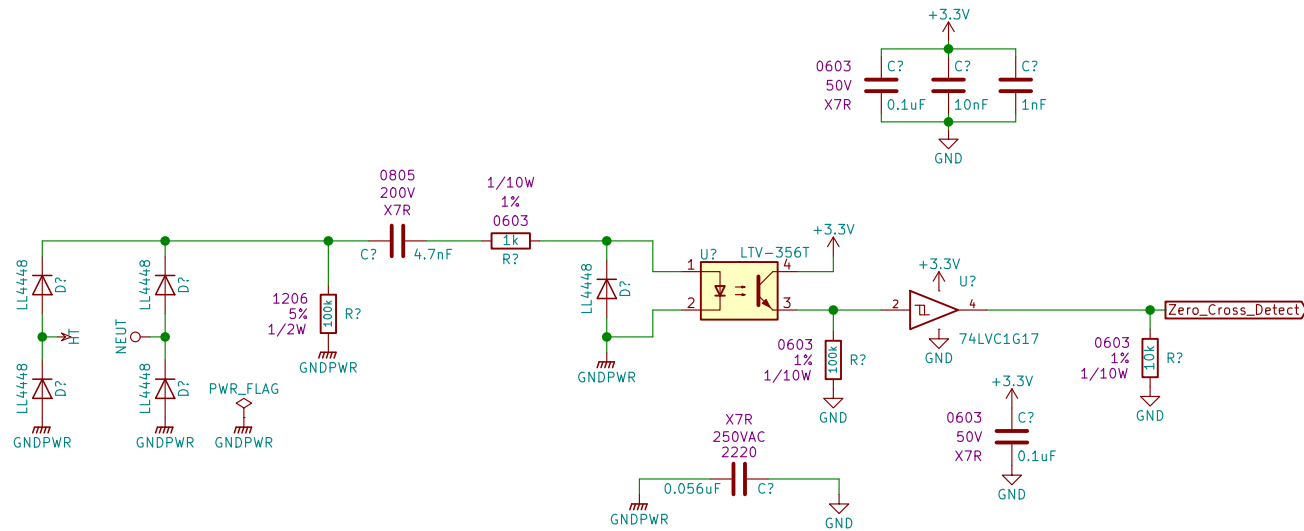


Mounting Holes and Mechanical Components



Sheet: /Mechanical/ File: Mechanical.sch		
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Size: A	Date: 2018-10-01	Rev: A
KiCad E.D.A. kicad (5.0.0)		Id: 13/16

Input AC Zero-Cross Detection



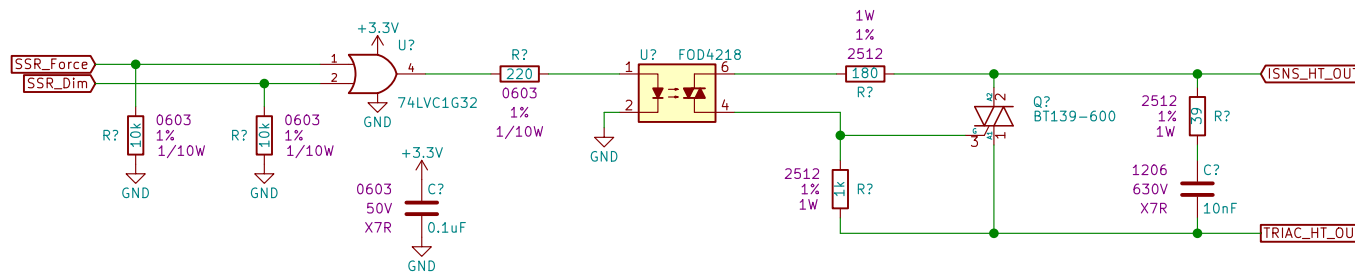
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File: Zero_Cross_Detect.sch

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KiCad E.D.A. kicad (5.0.0)

Rev:
Id: 14/16

Output AC Solid State Switch, Random Phase



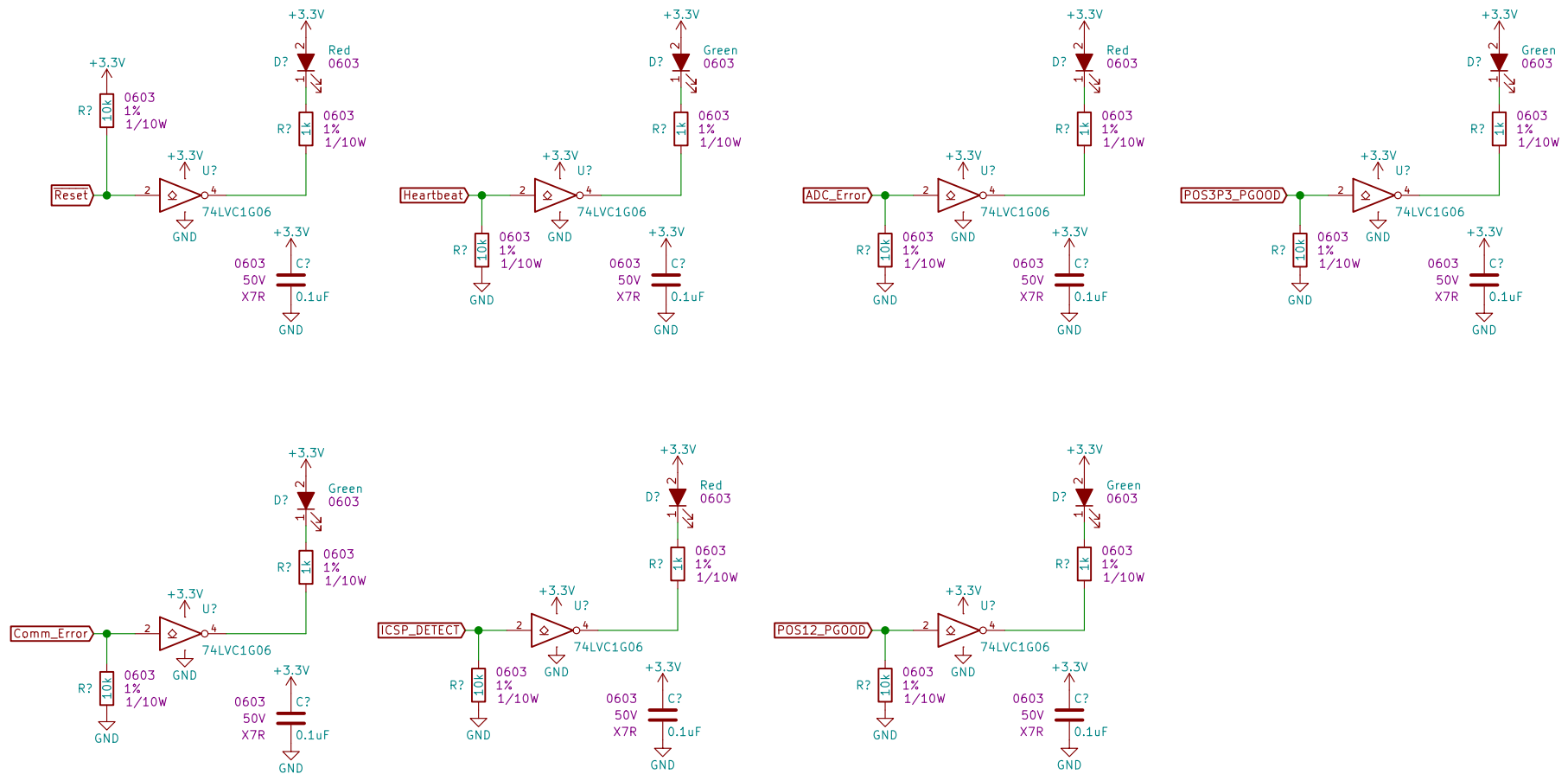
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Status LEDs



Sheet: /Status LEDs/ File: Status_LEDs.sch		
Title:		
Size: A	Date:	Rev:
KiCad E.D.A. kicad (5.0.0)		Id: 16/16