

Layout files for Beaglebone Black can be found at:
<http://elinux.org/Beagleboard:BeagleBoneBlack>

Ensure headers will mate to the BBB

Title **BBB Headers**

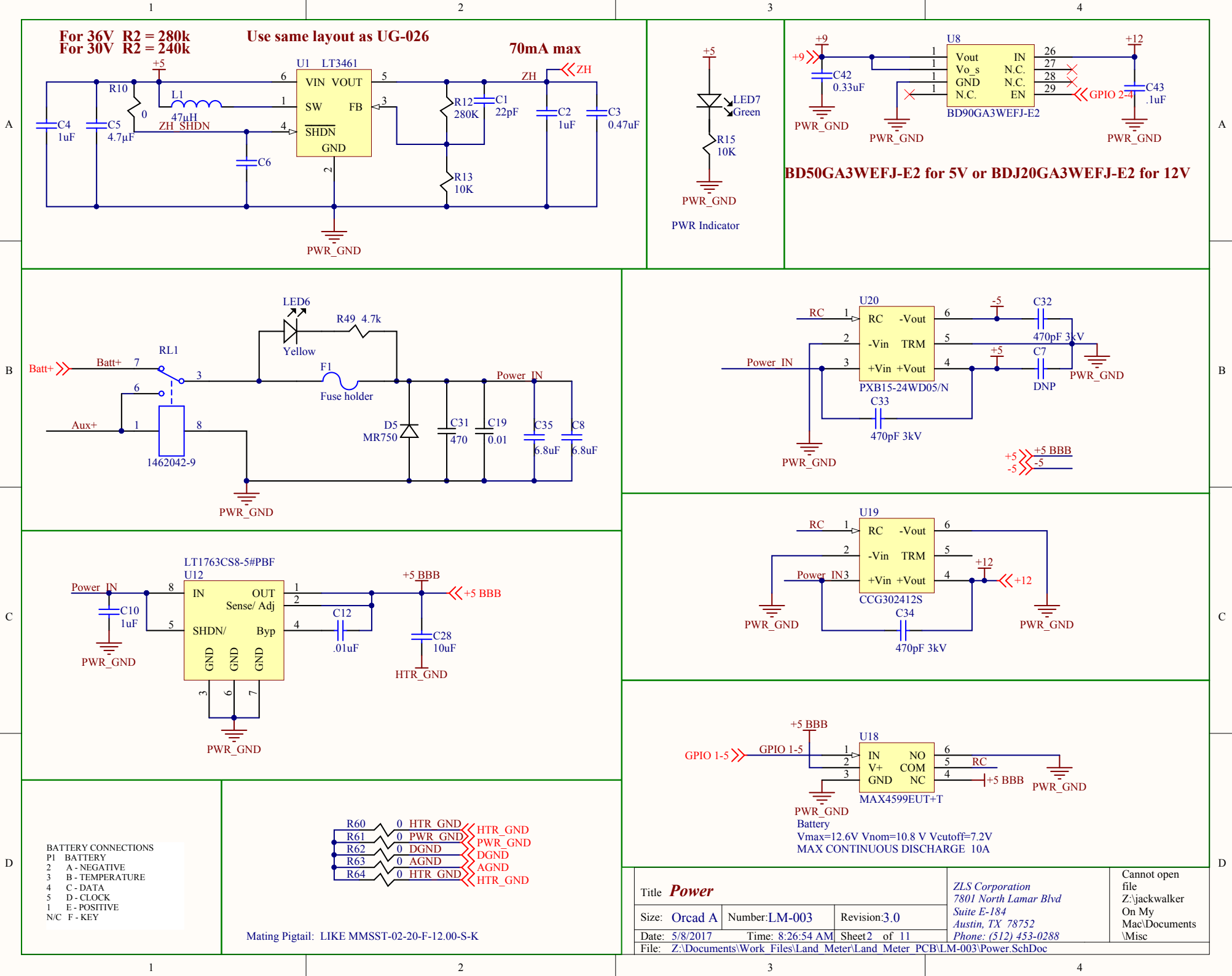
Size: **Orcad A** Number: **LM-003** Revision: **3.0**

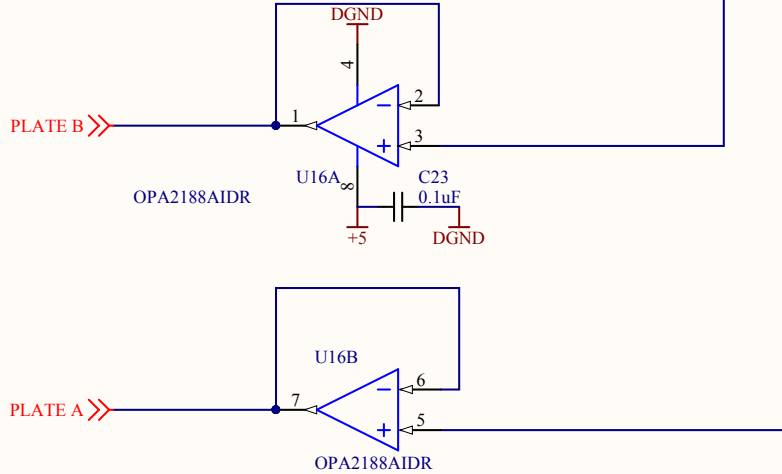
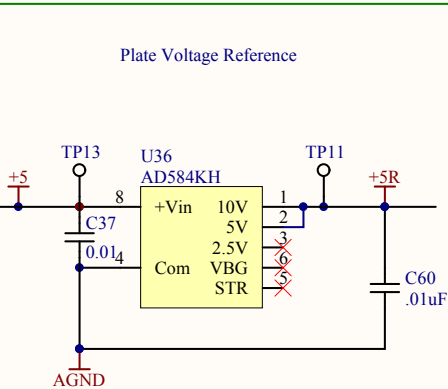
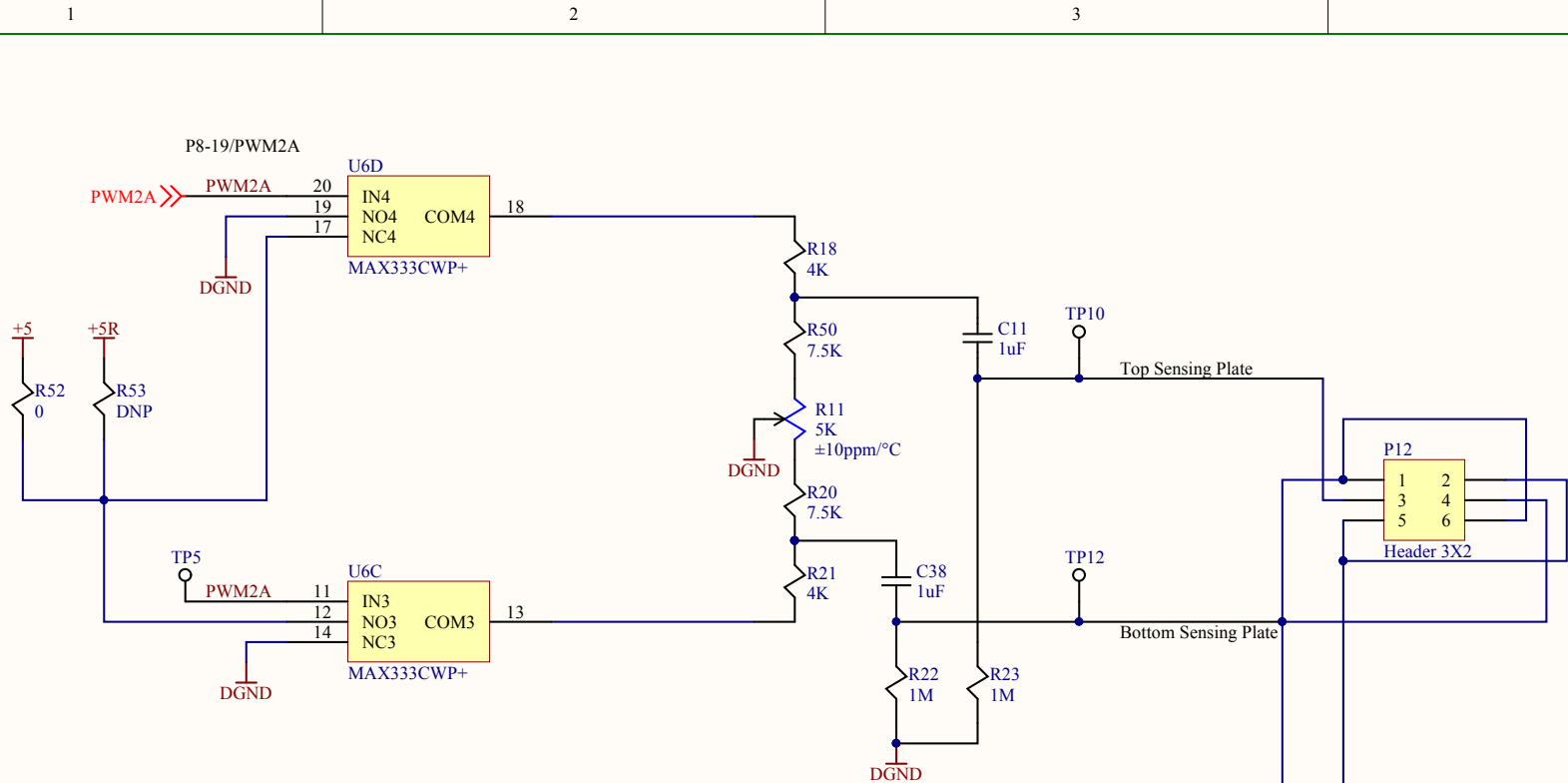
Date: **5/8/2017** Time: **8:26:53 AM** Sheet **1** of **11**

File: **Z:\Documents\Work Files\Land Meter\Land Meter PCB\LM-003\BBB Headers.SchDoc**

ZLS Corporation
7801 North Lamar Blvd
Suite E-184
Austin, TX 78752
Phone: (512) 453-0288

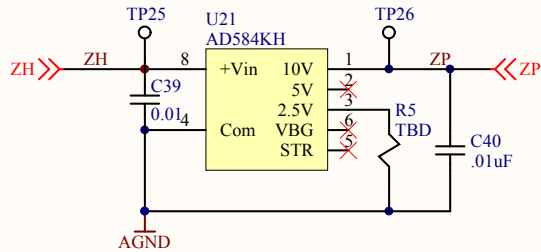
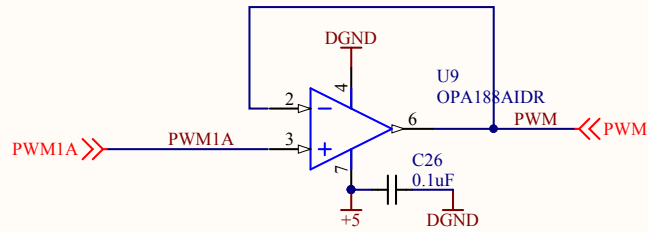
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Future digital pot: MAX5431CEUB+
MPMT50011002AT1
5k, 10k Ohm ±0.1% 100mW Power Per Element Voltage Divider Resistor Network/Array ±25ppm/°C TO-236-3, SC-59, SOT-23-3

All resistors 0805 1%					ZLS Corporation 7801 North Lamar Blvd Suite E-184 Austin, TX 78752 Phone: (512) 453-0288	Cannot open file Z:\jackwalker On My Mac\Documents \Misc
Title <i>Sense Clock Ckt</i>						
Size: Orcad A	Number: LM-003	Revision: 3				
Date: 5/8/2017	Time: 8:26:54 AM	Sheet 3 of 11				
File: Z:\Documents\Work Files\Land Meter PCB\LM-003\Sense Clock Ckt.SchDoc						

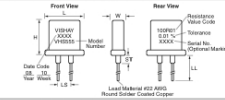


Resistor size information for R5

MODEL NUMBER		STANDARD RESISTANCE RANGE (Ω)		MAXIMUM WORKING VOLTAGE ¹	AMBIENT POWER RATING ² W	AVERAGE WEIGHT (g)	DIMENSIONS	
		TIGHTEST	LOOSEST				INCHES	mm
VH102K [†]	30.1 to 100K	± 0.005	± 1.0					
VH5102	20.9 to 10.1	± 0.01	± 1.0					
	10 to 2.0	± 0.02	± 1.0					
	1.0 to 0.1	± 0.10	± 1.0					
	1 to 0.1	± 0.25	± 1.0					
VH555 ^{††}	30.1 to 100K	± 0.005	± 1.0	300	0.6 W	0.3 W	1.4	
	10.2 to 1.0	± 0.05	± 1.0					
	4.99 to 1.0	± 0.10	± 1.0					
	1 to 0.1	± 0.25	± 1.0					

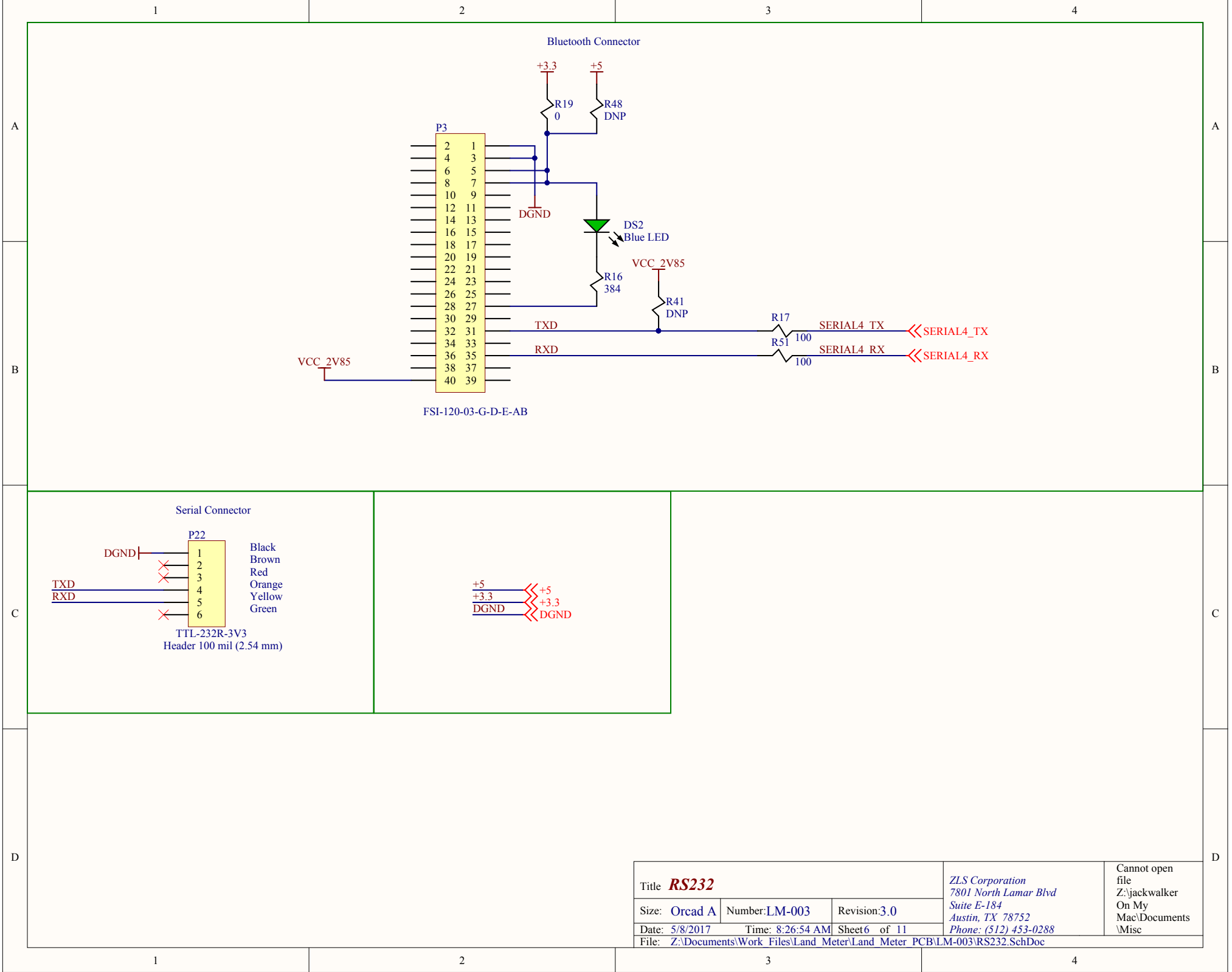
Notes:
[†] Available from 1 kΩ to 100 kΩ only.
^{††} Contains PNC20V inside (A 99.13 to 101.43).
^{†††} Above 100 kΩ VH5102 power is derated to 0.4 W at +70 °C and 0.2 W at +125 °C.
^{††††} 0.375 W available.

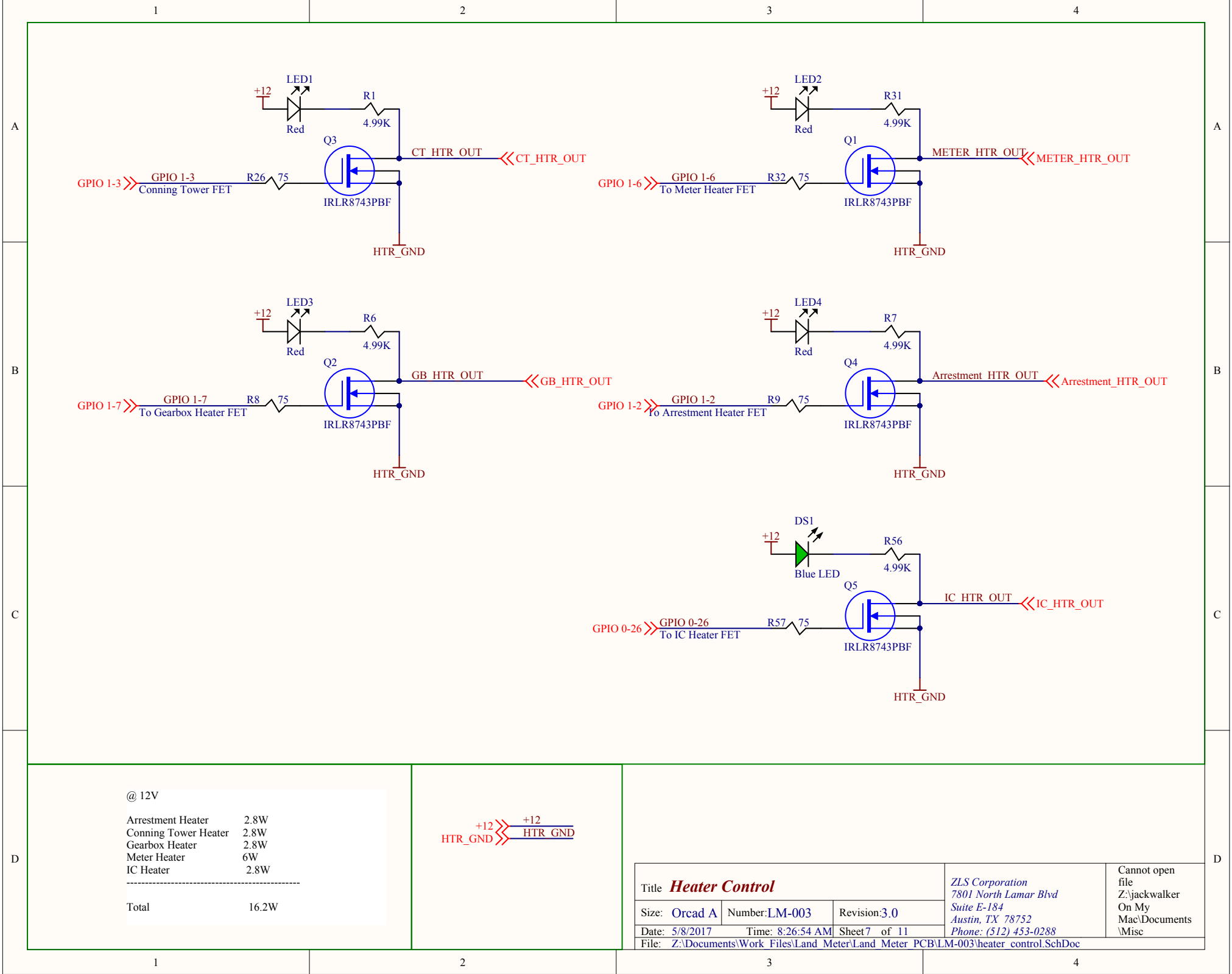
FIGURE 1 - STANDARD IMPRINTING AND DIMENSIONS

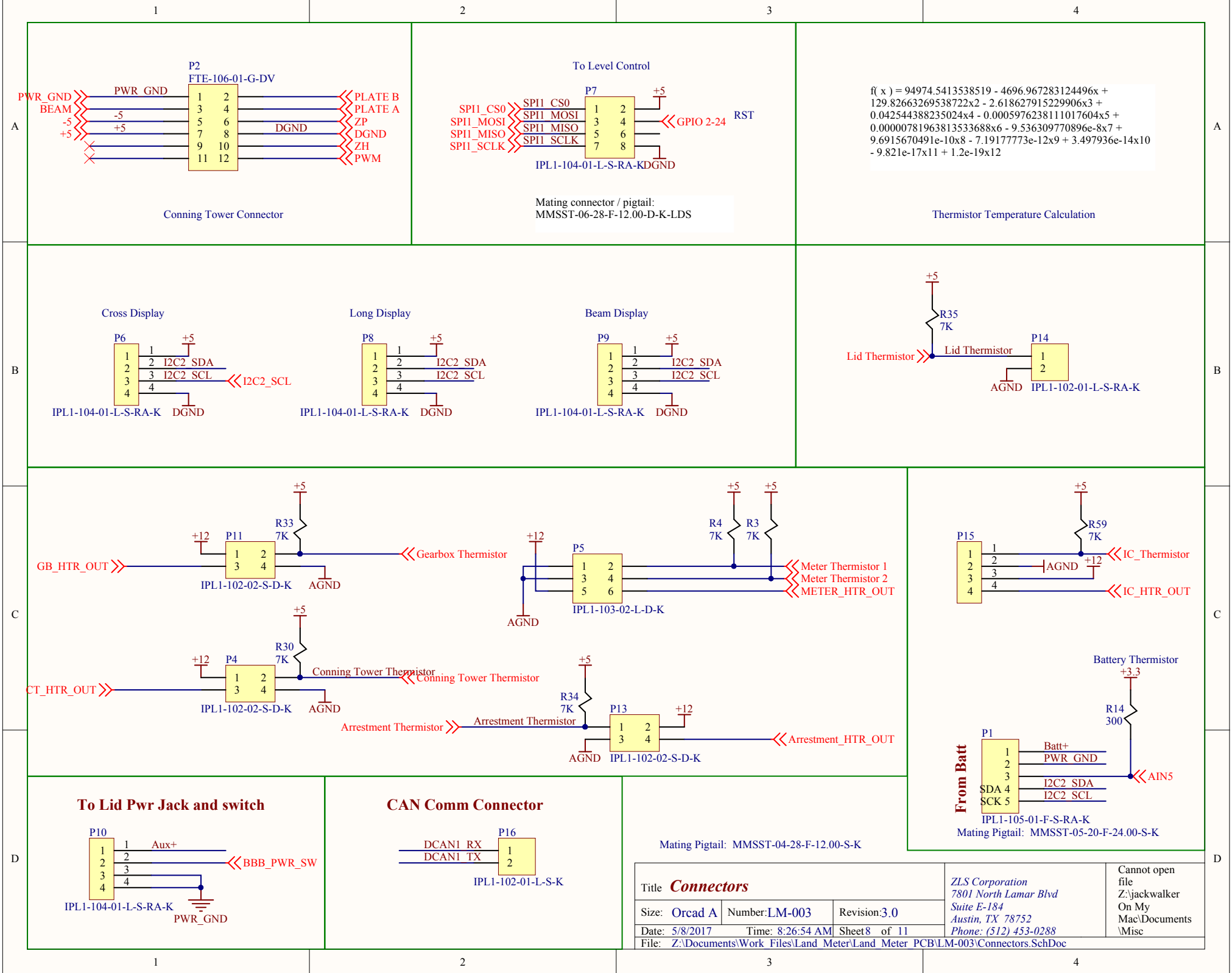


+5
 DGND
 AGND

Title PWM			ZLS Corporation 7801 North Lamar Blvd Suite E-184 Austin, TX 78752 Phone: (512) 453-0288	Cannot open file Z:\jackwalker On My Mac\Documents \Misc
Size: Orcad A	Number: LM-003	Revision: 3.0		
Date: 5/8/2017	Time: 8:26:54 AM	Sheet 4 of 11		
File: Z:\Documents\Work Files\Land Meter\Land Meter PCB\LM-003\PWM.SchDoc				



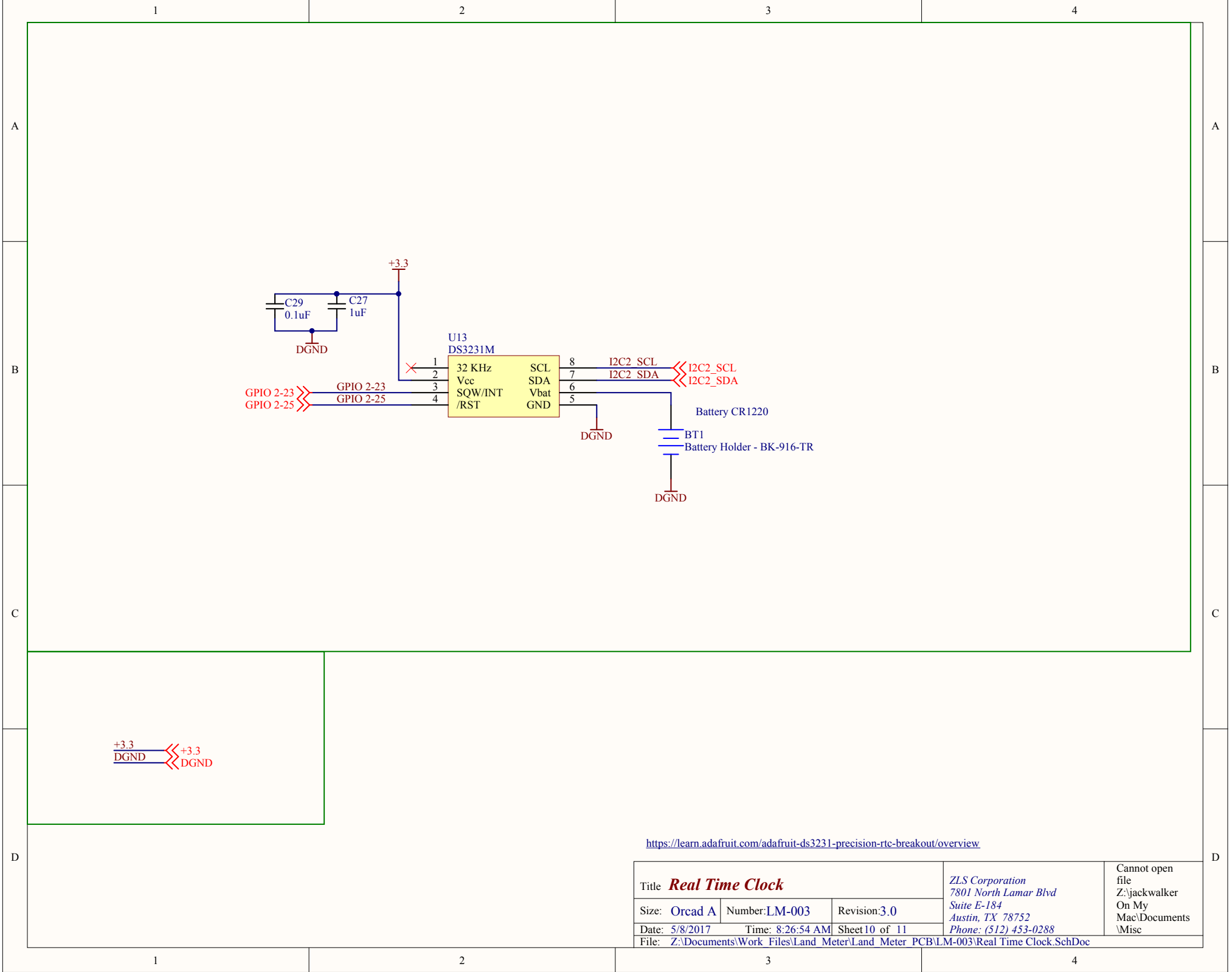






D

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<https://learn.adafruit.com/adafruit-ds3231-precision-rtc-breakout/overview>

Title <i>Real Time Clock</i>			ZLS Corporation 7801 North Lamar Blvd Suite E-184 Austin, TX 78752 Phone: (512) 453-0288	Cannot open file Z:\jackwalker On My Mac\Documents \Misc
Size: Orcad A	Number: LM-003	Revision: 3.0		
Date: 5/8/2017	Time: 8:26:54 AM	Sheet 10 of 11		
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