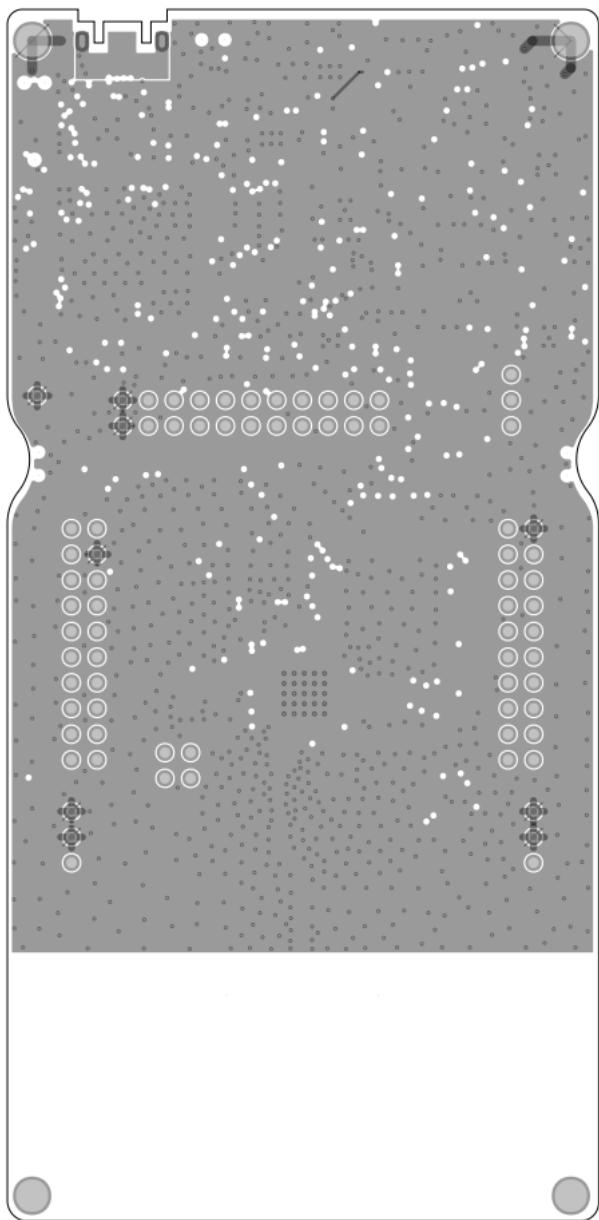
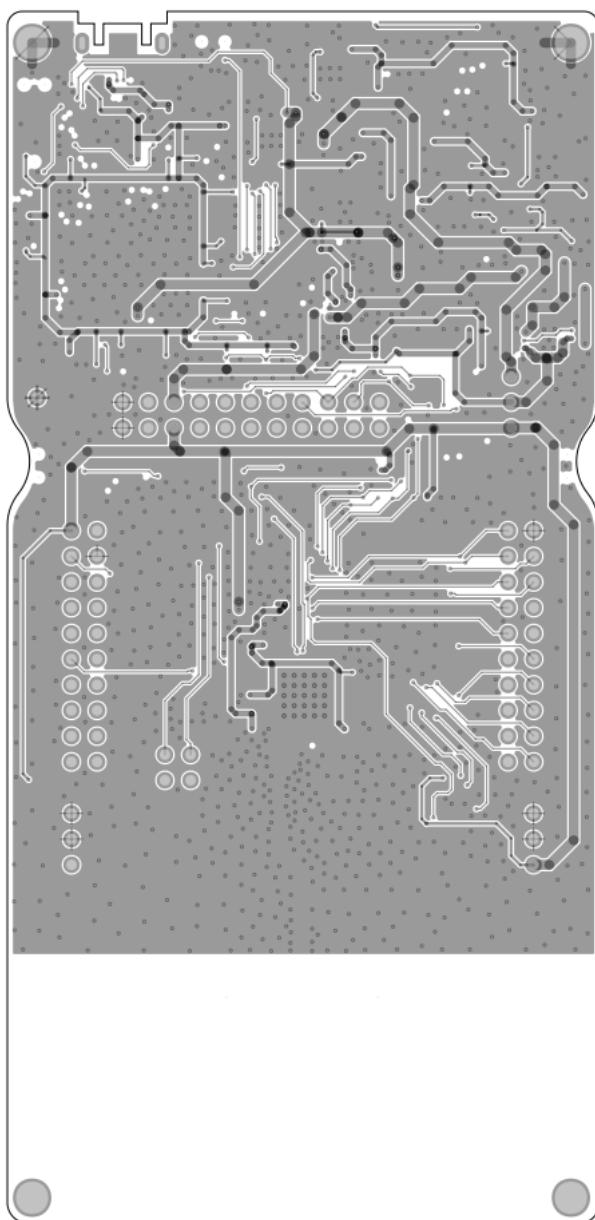


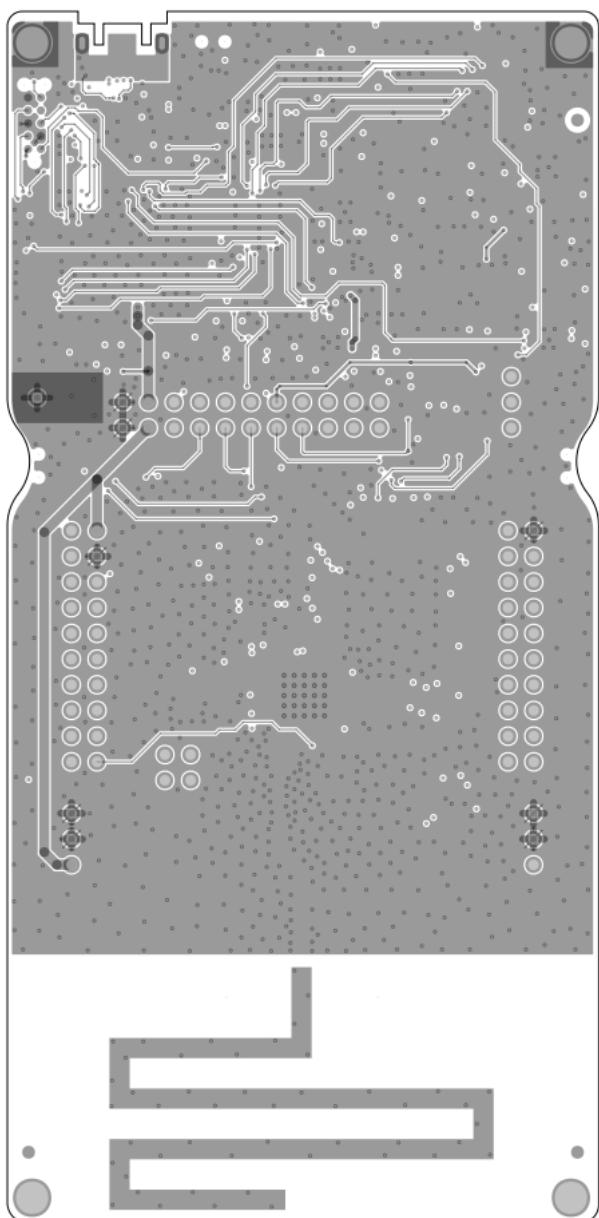
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L 1	LAUNCHXL-CC1312R1 D WCS042 D	
DATE : 2018-10-10		



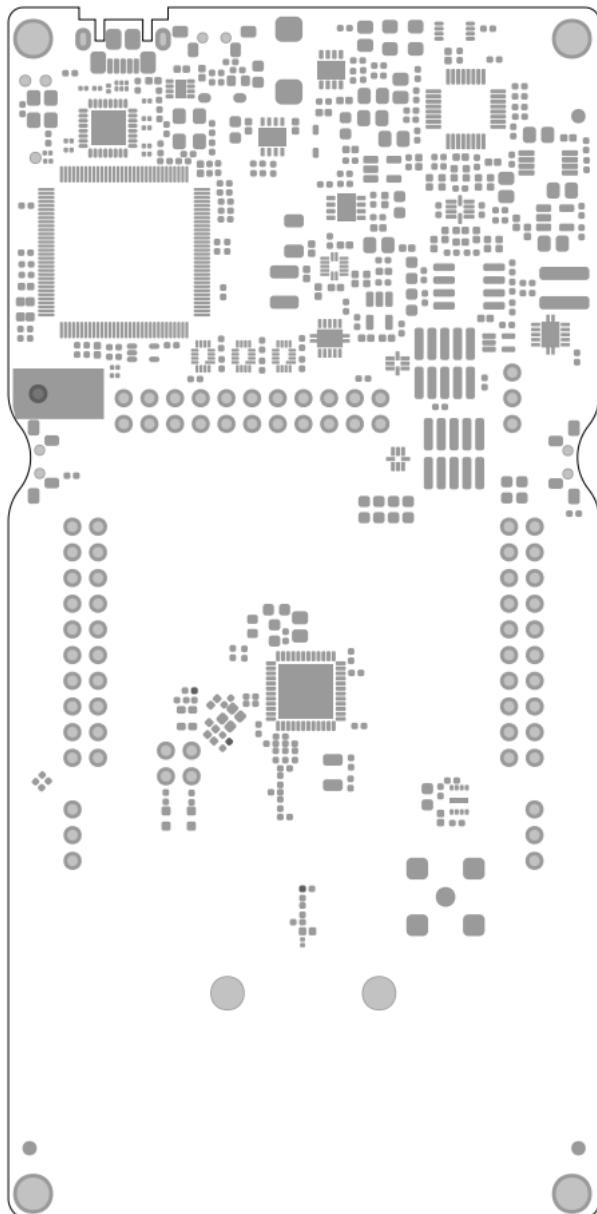
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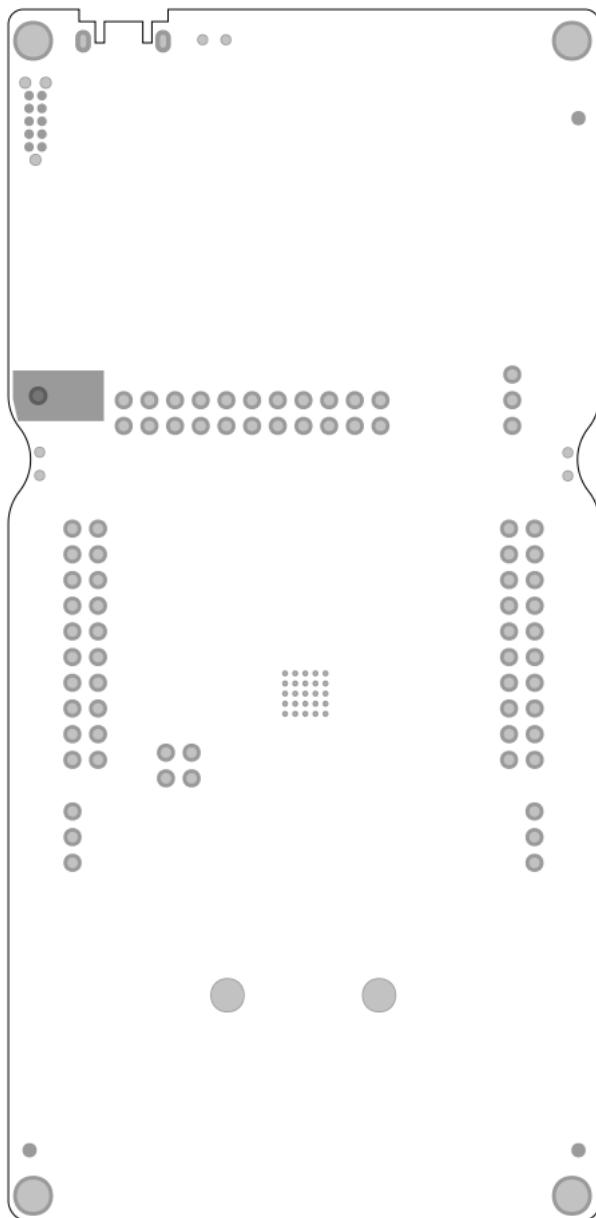
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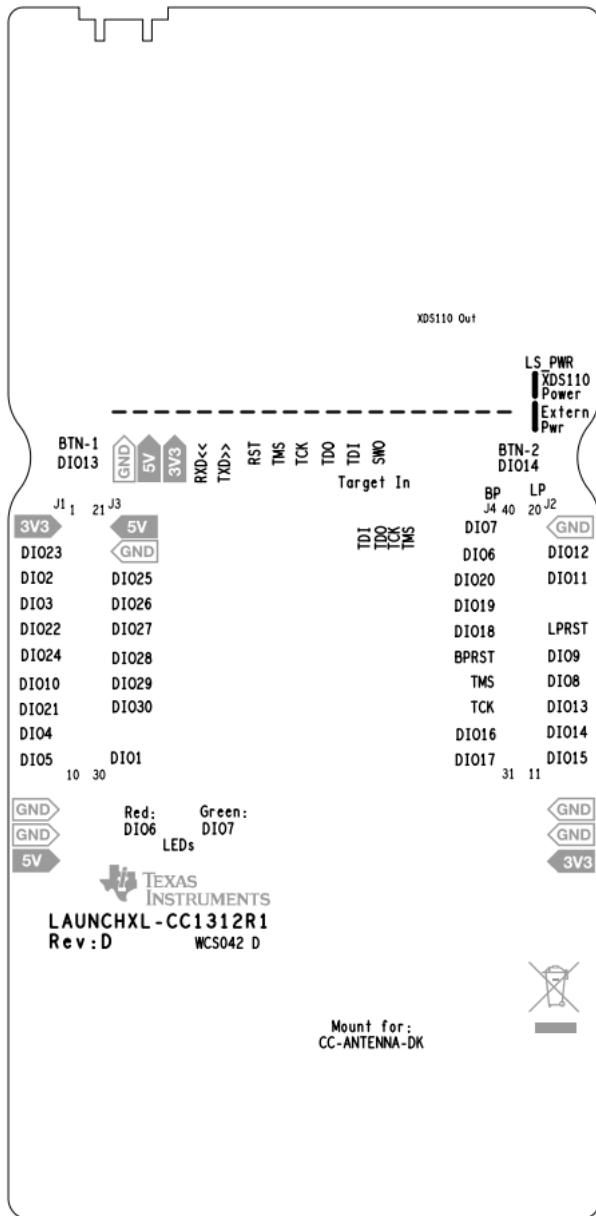
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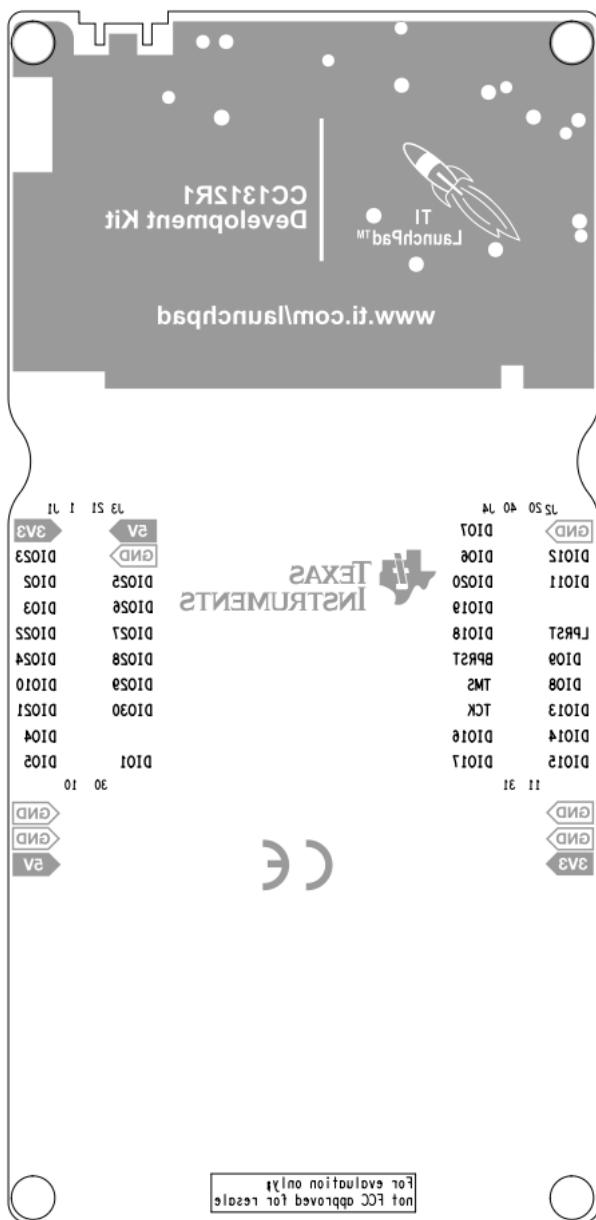
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DATE : 2018-10-10	



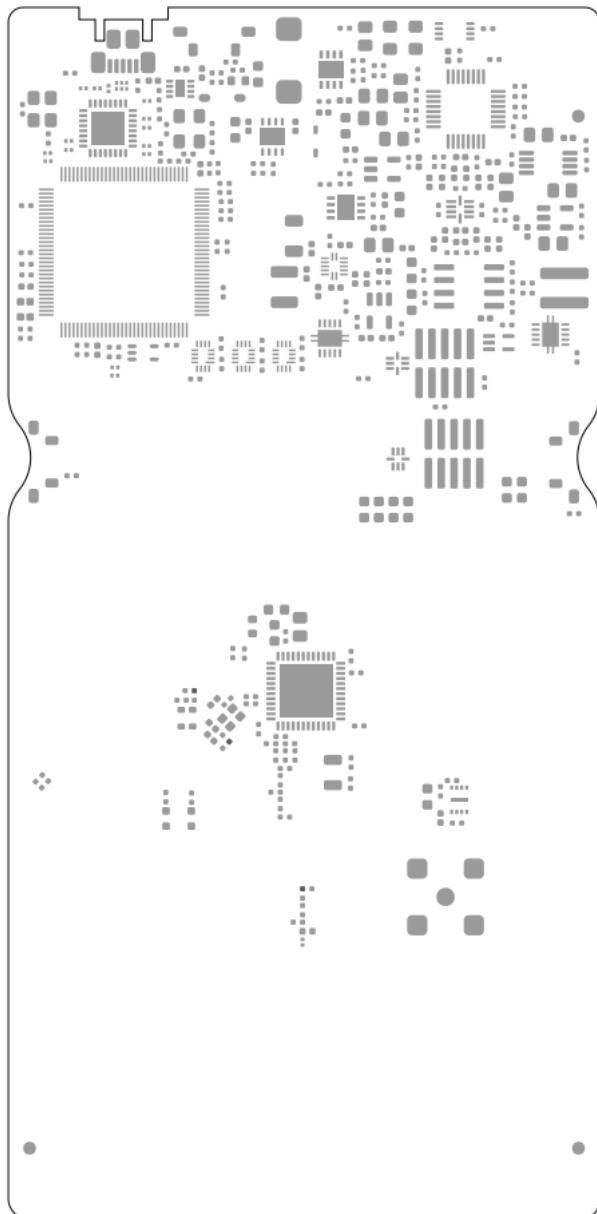
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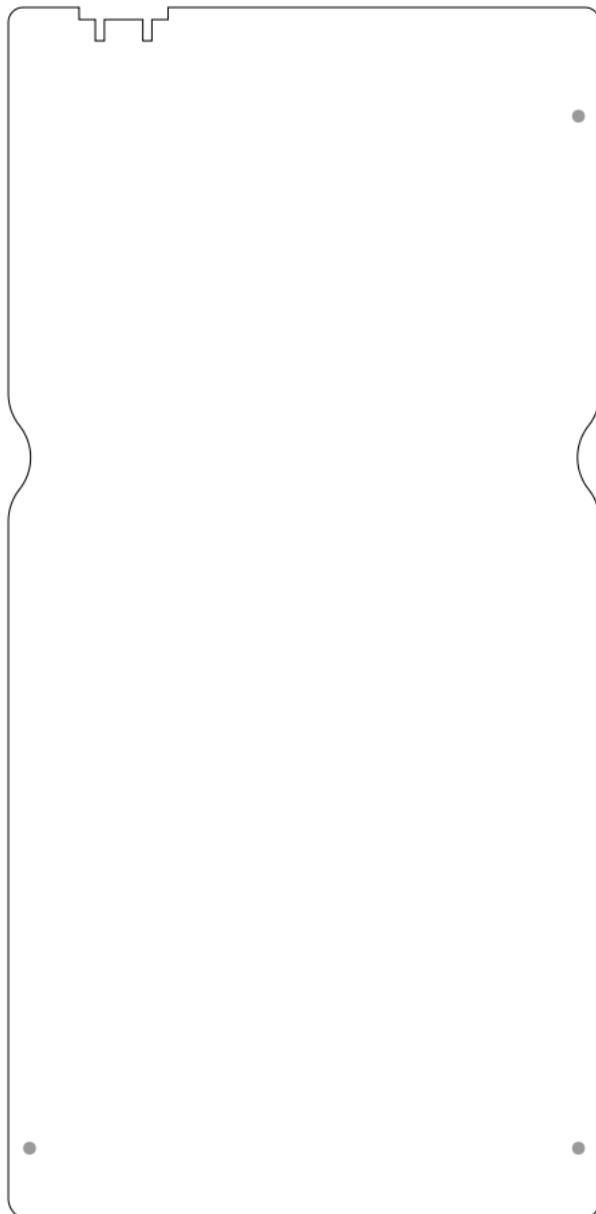
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DATE : 2018-10-10	



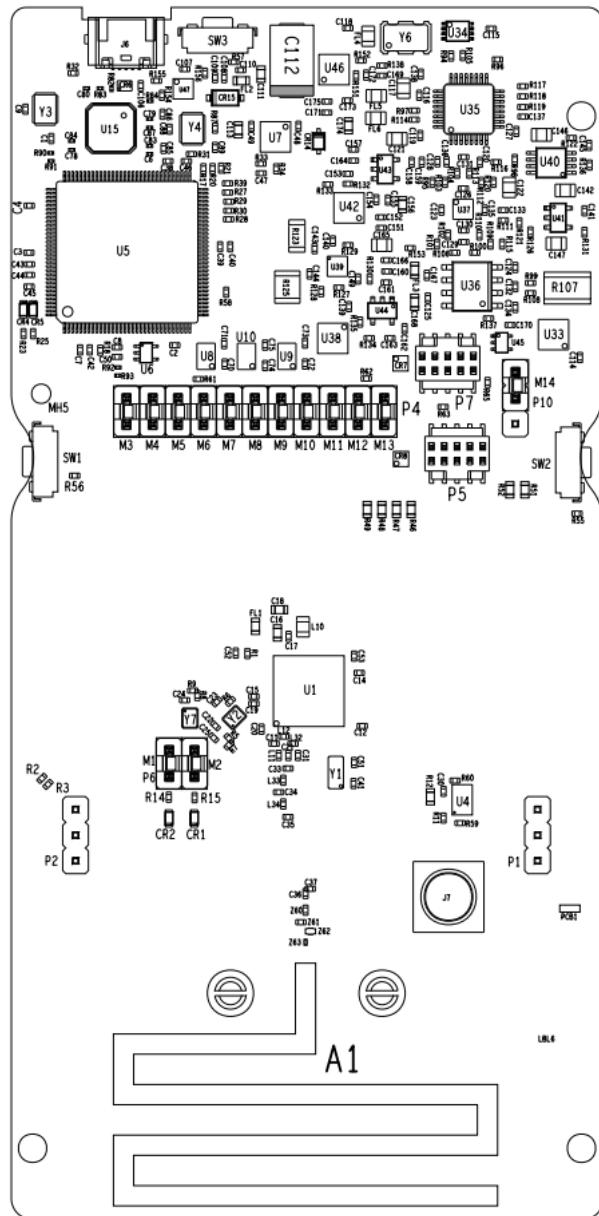
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DATE : 2018-10-10	



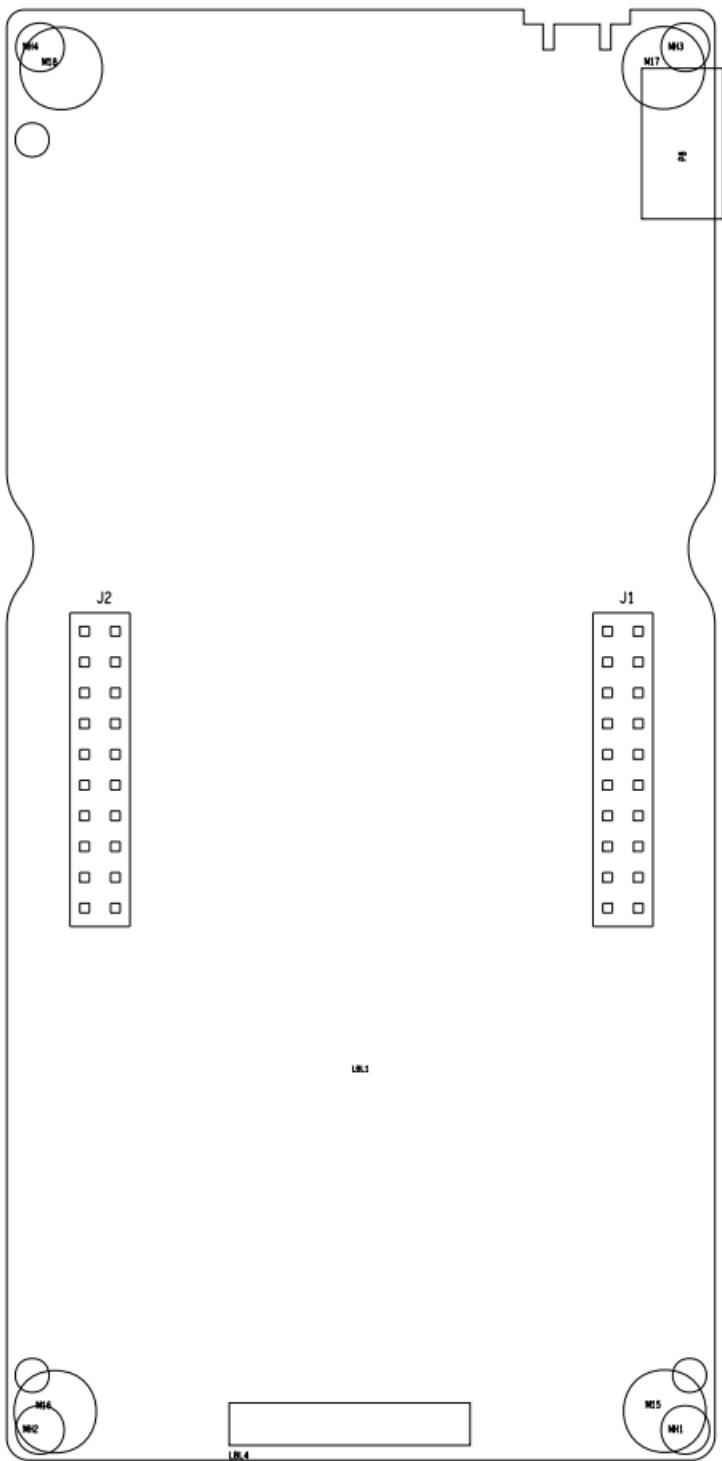
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	DATE : 2018-10-10

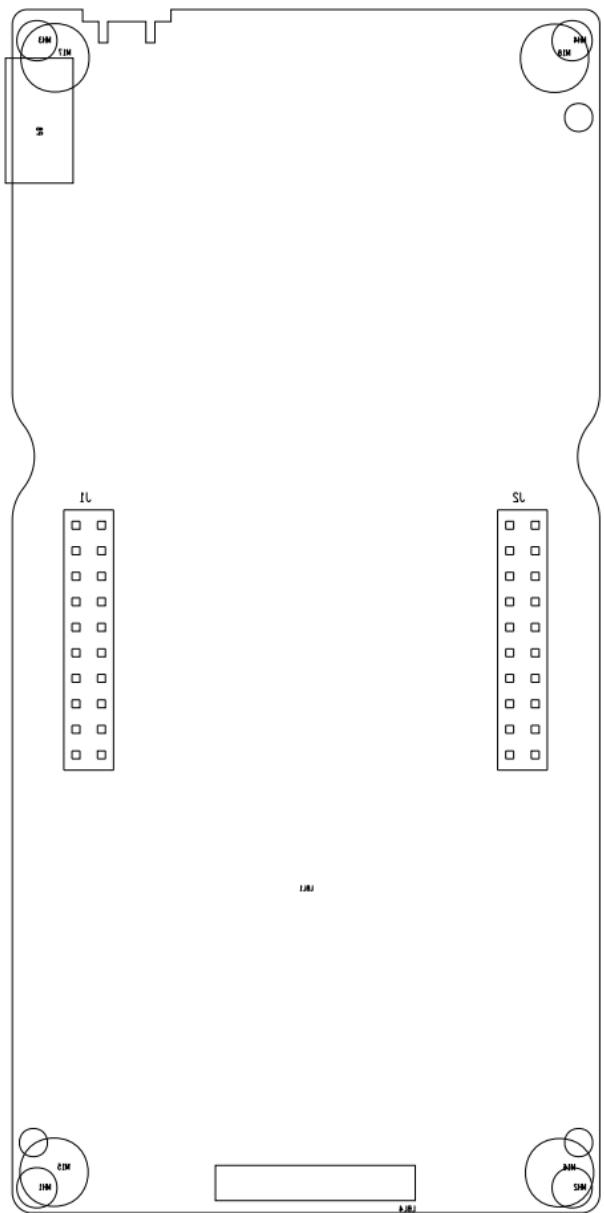


	TEXAS INSTRUMENTS
	PM BOT
	LAUNCHXL-CC1312R1 D WCS042 D
	DATE : 2018-10-10



	TEXAS INSTRUMENTS
ASSYTOP	LAUNCHXL-CC1312R1 D WCS042 D
	DATE : 2018-10-10





	TEXAS INSTRUMENTS
ASSYBOT	LAUNCHXL-CC1312R1 D WCS042 D
	DATE : 2018-10-10

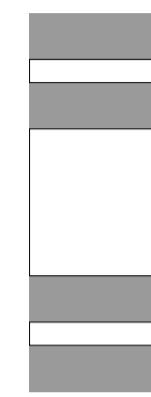
4

3

2

DESIGN CROSS SECTION CHART

TOTAL THICKNESS 1.6 MM



L1 : TOP CONDUCTOR - COPPER + PLATING 0.035 MM
* DIELECTRIC - FR-4 0.175 MM (TOP PRIORITY)
L2 : L2 PLANF - COPPFR 0.035 MM

* DIELECTRIC - FR-4 1.11 MM

L3: L3 PLANE - COPPER 0.035 MM

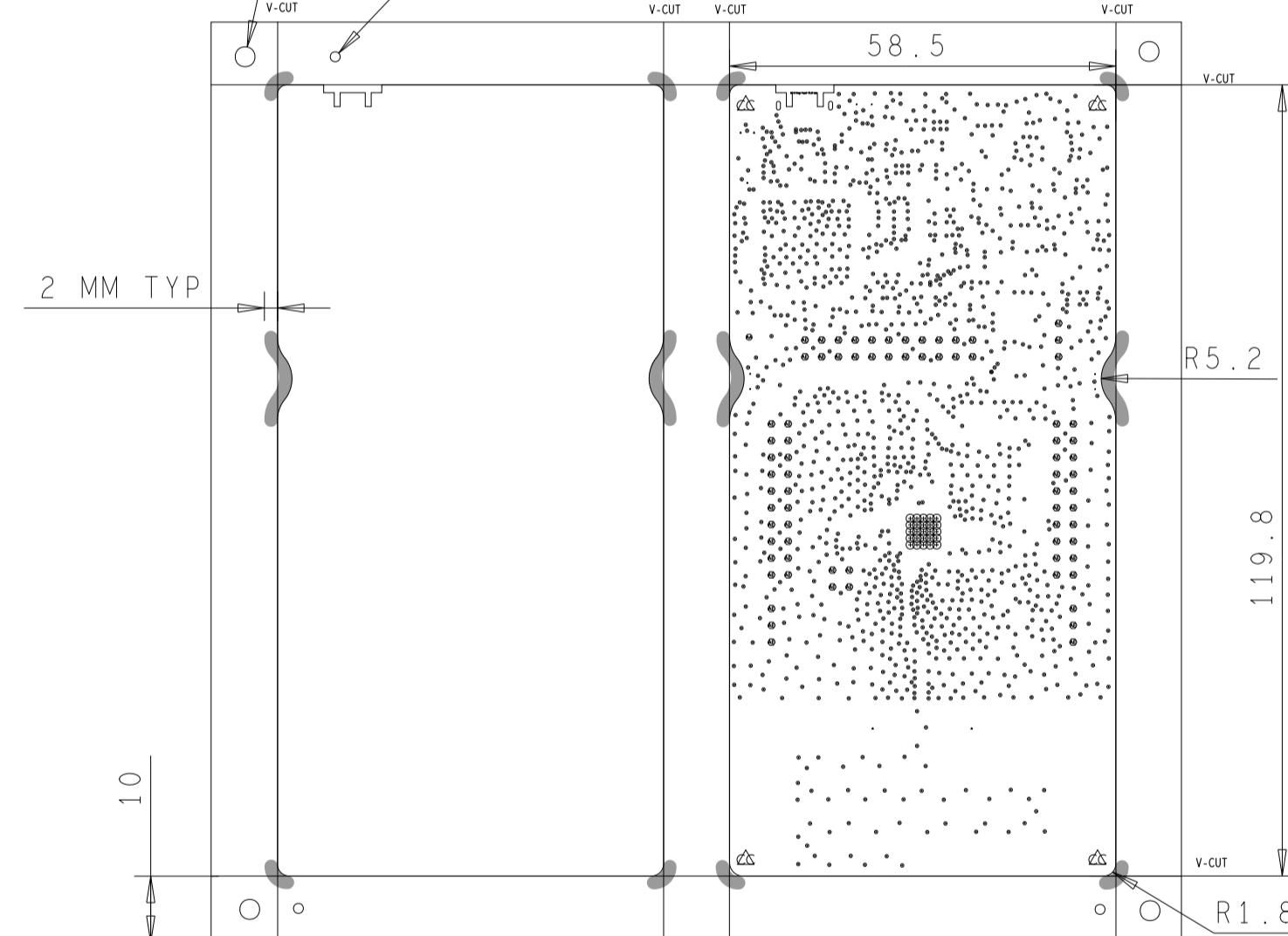
* DIELECTRIC - FR-4 0.175 MM
L4: BOTTOM CONDUCTOR - COPPER + PLATING 0.035 MM

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
E1	Initial Version	2017-08-09	2017-08-09
A	Production Release Version	2017-10-20	2017-10-20
B	Production Release Version (Added DustBin Symbol)	2018-01-04	2018-01-04
C	Updated with new Energy Trace Circuit	2018-07-09	2018-07-09
D	Production Release Version (Added CE Logo)	2018-10-10	2018-10-10

PANEL DRAWING

4 x Ø3 MM TOOLING HOLE (NPTH)

3 x Ø1.5 MM FIDUCIAL MARK, ADD BOTH SIDES



DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILLIMETERS				
FIGURE	FINISHED_SIZE	ROTATION	PLATED	QTY
•	0.2	-	PLATED	1369
◎	0.201	-	PLATED	25
●	1.05	-	PLATED	75
●	1.1	-	PLATED	1
△	3.2	-	PLATED	4
.	0.899	-	NON-PLATED	6
.	1.0	-	NON-PLATED	3
.	3.2	-	NON-PLATED	2
○	1.3x0.6	90.000	PLATED	2
TOTAL HOLES				1487

FAB NOTES:

- FAB NOTES:

 1. ALL DIMENSIONS ARE IN MM, UNLESS OTHERWISE NOTED.
 2. THE PWB SHALL BE FABRICATED TO IPC-6012,
CLASS 2 AND WORKMANSHIP SHALL CONFORM TO IPC-A-600, CLASS 2. CURRENT REVISIONS.
 3. BOARD MATERIAL SHALL BE 180 Tg/340 Td ISOLA FR-370HR OR EQUIVALENT, ROHS COMPLIANT AND
LEAD FREE ASSEMBLY CAPABLE. BOARD MATERIAL SHALL MEET OR EXCEED IPC-4101B.
RoHS/REACH CERTIFICATE OF CONFORMANCE SHALL BE DELIVERED WITH EACH LOT
 4. BOARD MATERIAL & CONSTRUCTION TO BE U.L. 94V-0 APPROVED AND MARKED ON THE FINISHED BOARD.
UL GUIDE NUMBER SHOULD BE MARKED ON THE FINISHED BOARD.
 5. OVERALL BOARD THICKNESS TO BE 1.6 MM AND APPLIES AFTER ALL LAMINATION AND PLATING
PROCESSES, MEASURED FROM COPPER TO COPPER.
 6. MAX. WARP & TWIST TO BE .0075 PER INCH.
 7. BOARD MUST BE ELECTRICALLY TESTED USING SUPPLIED IPC-D-356 NETLIST.
 8. 0.32MM TRACES ON LAYER 1 ARE 50 OHMS +/-10%. THEY ARE REFERENCE TO LAYER 2 GROUND
 9. MANUFACTURER MARKING: TWO LETTER + YEAR + WEEK
THE LETTER CODE SHALL IDENTIFY THE MANUFACTURER AND IS DECIDED BY MFR. NO LOGOS OR OTHER IDENTIFIERS ARE ALLOWED
THE MARKING SHALL BE IN BOTTOM STK SCREEN PRINT

PROCESS NOTES

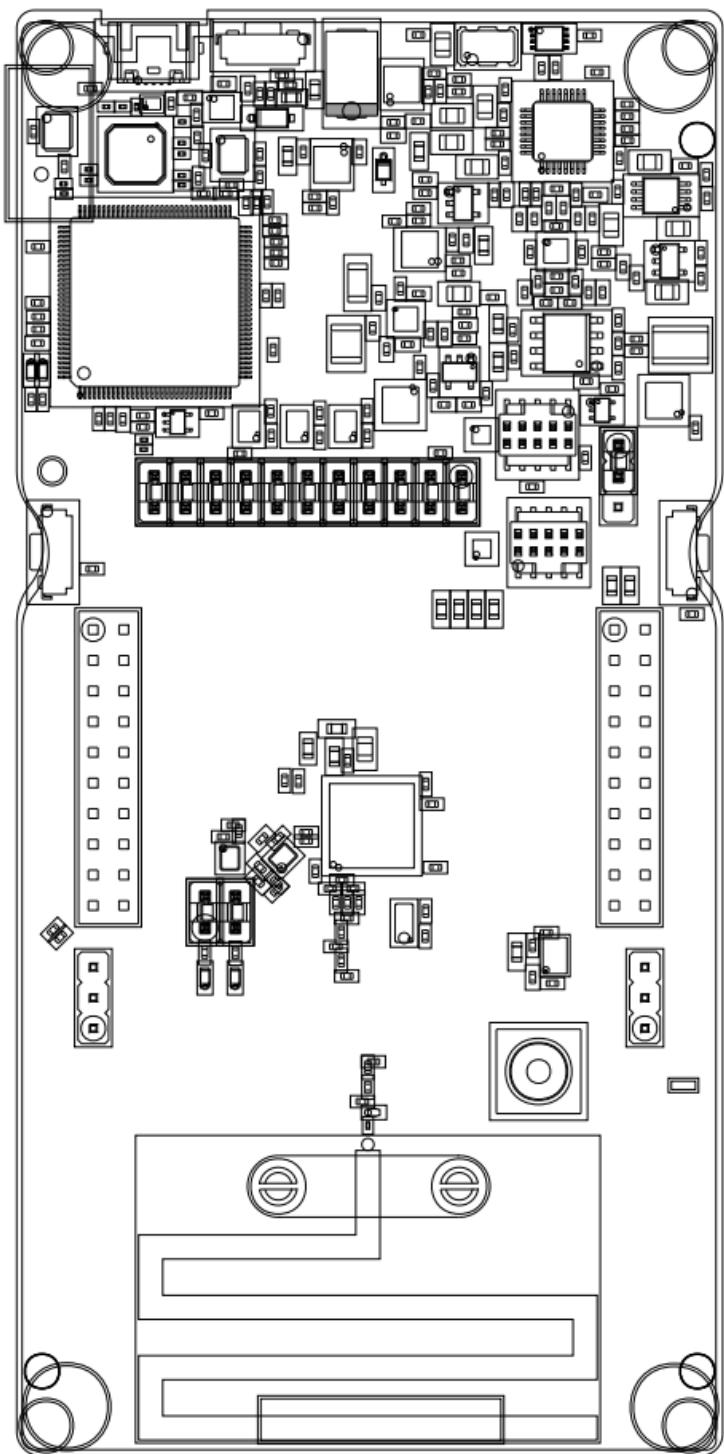
- PROCESS NOTES:**

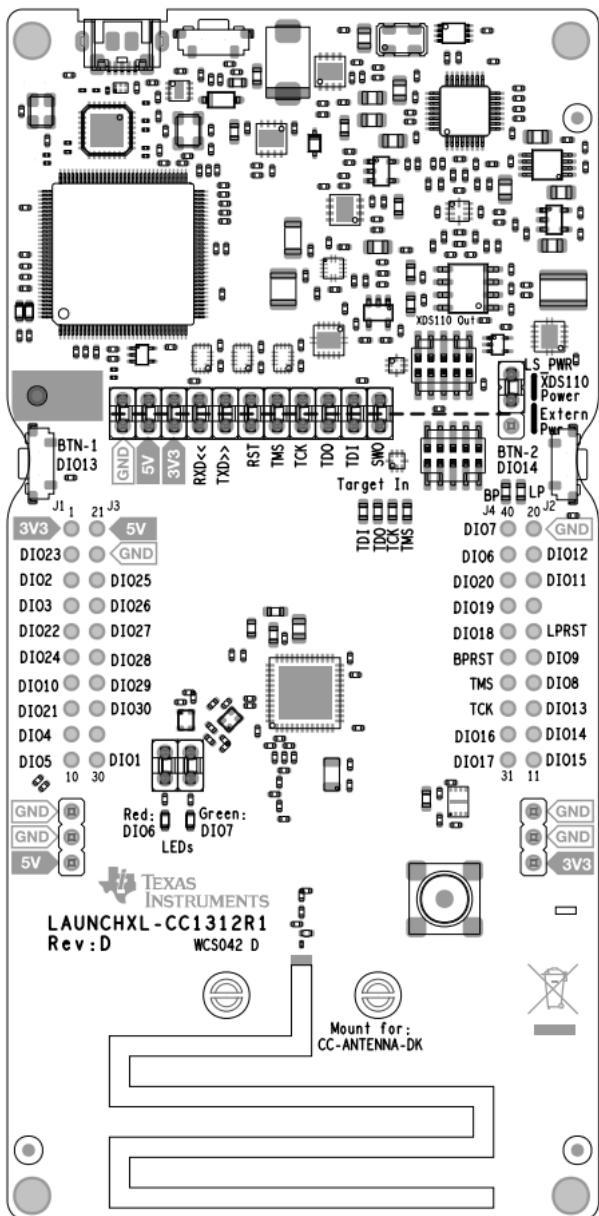
 1. APPLY LPI SOLDERMASK OVER BARE COPPER (SMOBC). SOLDERMASK SHALL CONFORM TO IPC-SM-840. CLASS H.
CURRENT REV. COLOR OF MASK TO BE RED.
 2. PLATE ALL EXPOSED AREAS WITH ELECTROLESS NICKEL IMMERSION GOLD. NICKEL:100 MICRO-INCHES MIN. GOLD:2-8 MICROINCHES MIN.
 3. SOLDERMASK ARTWORK HAS ZERO (0) OVERRSIZED PADS. FABRICATION VENDOR IS ALLOWED TO ADJUST THE COMPONENT SOLDERMASK PADS TO MEET THEIR TOOLING REQUIREMENT.
 4. APPLY NON-CONDUCTIVE LPI SILKSCREEN OR EQUIVALENT PER THE ARTWORK. COLOR: WHITE.
 5. ALL VIAS ARE TENTED.

UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE	TEXAS INSTRUMENTS FABRICATION DRAWING LAUNCHXL-CC1312R1 CC1312R LaunchPad WCS042 D
DIMENSIONS ARE IN MM	DRAWN PM	2018-10-10	
	CHECKED TA, SJ	2018-10-10	
			SIZE FSCM NO DWG NO
			SCALE NONE
			SHEET 1 OF 1

4

(八)





	TEXAS INSTRUMENTS	
SILKTOP	LAUNCHXL-CC1312R1 D WCS042 D	
DATE : 2018-10-10		