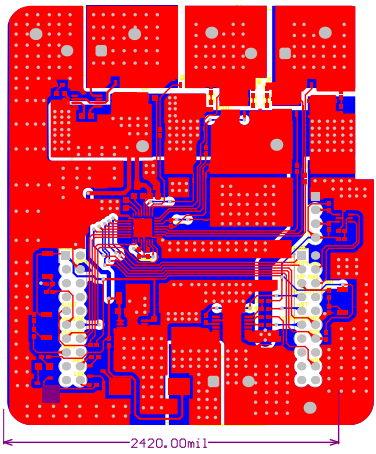
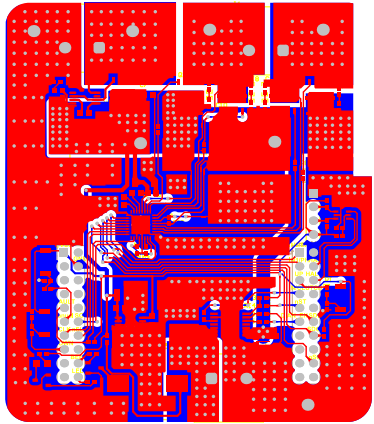


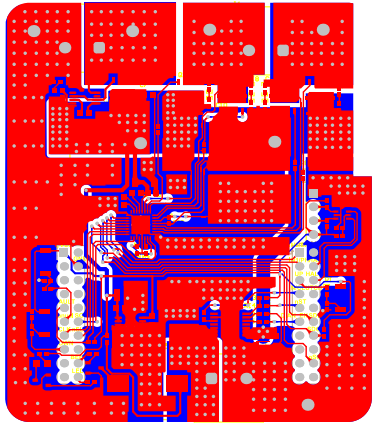
M1 Board Outline



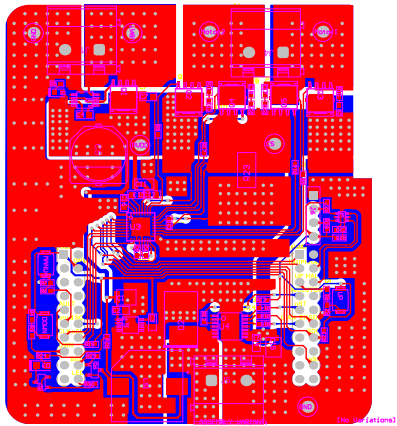
M2 Board Dimensions



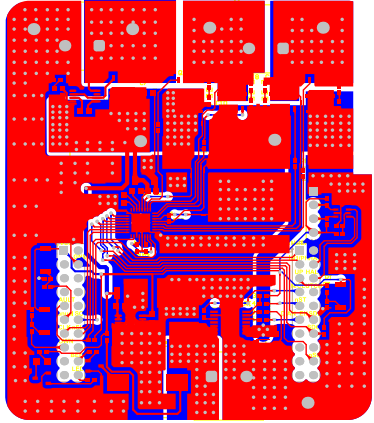
M3 3D STEP Top



M4_3D_STEP_Bottom



PCB VIEWED FROM TOP SIDE	BOARD #: TIDA-060009	REV: E1	SUN REV: Not In VersionControl
	TID #: TIDA-060009		
PLOT NAME = Printout Set for Class All Layers	GENERATED : 6/29/2018 1:30:08 PM		TEXAS INSTRUMENTS



PLOT NAME = Printout Set for Class All		CREATED : 6/29/2018 1:30:10 PM	TEXAS INSTRUMENTS
TID # : TIDA-080008			
BOARD # : TIDA-080008		REV:	

1

2

3

4

5

6

A

A

B

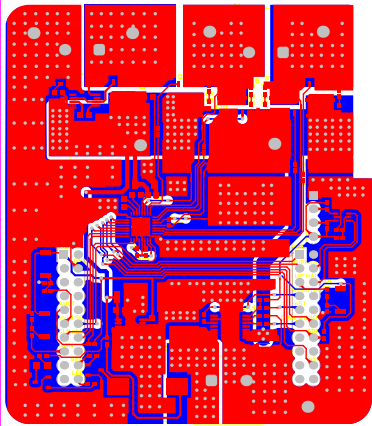
B

C

C

D

D



M9 Title Sheet

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PROJECT TITLE: Automotive Trunk/Gate Lift Drive	
DESIGNED FOR: Betty Guo	
FILE NAME: Automotive Trunk/Gate Lift Drive	
ENGINEER: Betty Guo	LAYOUT BY: Betty Guo

ALTIUM DESIGNER VERSION:

1

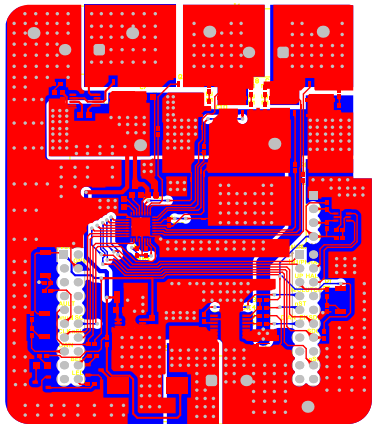
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3

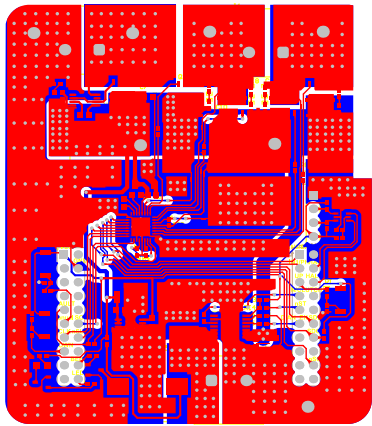
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5

6

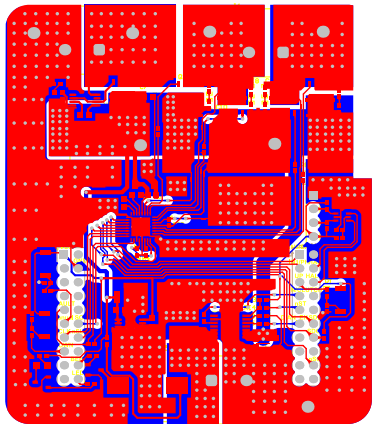


DESIGN INFORMATION	
MIN. TRACK WIDTH:	<u>8</u> MIL
MIN. CLEARANCE:	<u>0.2</u> mm
MIN. VIA PAD SIZE:	<u>24</u> MIL
MINIMUM ANNULAR RING 0.05mm (2MIL) EXTERNAL PER IPC-D-275 CLASS 2 LEVEL C	
REGISTRATION TOLERANCES: METAL +/- <u>5</u> MIL, HOLES +/- <u>3</u> MIL HOLE SIZE TOLERANCE (UNLESS OTHERWISE SPECIFIED): +/- <u>3</u> MIL	
MATERIAL:	
<input type="checkbox"/> FR-408 <input checked="" type="checkbox"/> FR-4 High Tg <input type="checkbox"/> OTHER _____	
THICKNESS:	<input checked="" type="checkbox"/> 62 MIL (1.6mm) +/-10% <input type="checkbox"/> OTHER _____
TOLERANCE:	<input checked="" type="checkbox"/> ANSI IPC-6012 TYPE 3 CLASS 2 <input type="checkbox"/> OTHER +/- _____
BOW & TWIST:	<input checked="" type="checkbox"/> ANSI IPC-6012 TYPE 3 CLASS 2 <input type="checkbox"/> OTHER +/- _____
DRILLING:	
REFERENCE:	<input checked="" type="checkbox"/> AS SHOWN <input checked="" type="checkbox"/> NC_DRILL FILES
PTH COPPER THICKNESS:	<input checked="" type="checkbox"/> 20-30 um <input type="checkbox"/> OTHER _____
BOARD FINISH:	
SILKSCREEN:	<input checked="" type="checkbox"/> TOP <input checked="" type="checkbox"/> BOTTOM
SILKSCREEN COLOR:	<input checked="" type="checkbox"/> WHITE <input type="checkbox"/> OTHER _____
SOLDER RESIST COLOR:	<input checked="" type="checkbox"/> GREEN <input type="checkbox"/> OTHER _____ <input checked="" type="checkbox"/> MATTE <input type="checkbox"/> SEMI-GLOSS
SURFACE FINISH:	
<input checked="" type="checkbox"/> IMMERSION GOLD (ENG) <input type="checkbox"/> ENEPIG <input type="checkbox"/> IMM. TIN/SILVER OR EQUIV <input type="checkbox"/> OTHER _____	
ARRAY/PANEL:	<input type="checkbox"/> CUT AND TRM PER M1 BOARD OUTLINE <input type="checkbox"/> N.C. ROUTE <input checked="" type="checkbox"/> V. SCORE
CERTIFICATION: MATERIALS AND WORKMANSHIP FOR ALL PCBs TO MEET OR EXCEED THE REQUIREMENTS OF:	
<input checked="" type="checkbox"/> ANSI IPC-A-600F CLASS -> <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> RoHS <input type="checkbox"/> OTHER <u>PER ORDER</u>	
ALL BOARDS MUST MEET OR EXCEED UL94-V0 REQUIREMENTS. PCB MUST BEAR THE UL94V-0 UL REGISTERED MATERIAL ID NUMBER	
ADDITIONAL REQUIREMENTS:	
MICROSECTION: <input type="checkbox"/> YES	
BARE BOARD ELEC. TEST: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> REQUIRED <input type="checkbox"/> PER ORDER	
<input type="checkbox"/> XX MIL VIAS REQUIRE NON-CONDUCTIVE FILL AND PLANARIZE	
<input type="checkbox"/> XX MIL VIAS REQUIRE CONDUCTIVE FILL AND PLANARIZE	
<input type="checkbox"/> OUTER XX MIL VIAS REQUIRE 50 OHM SINGLE-ENDED IMPEDANCE	
<input type="checkbox"/> LAYER 2 & 3 (INNER LAYERS) XX MIL WIDE, XX MIL SPACE TRACES REQUIRE 100 OHM DIFFERENTIAL IMPEDANCE	

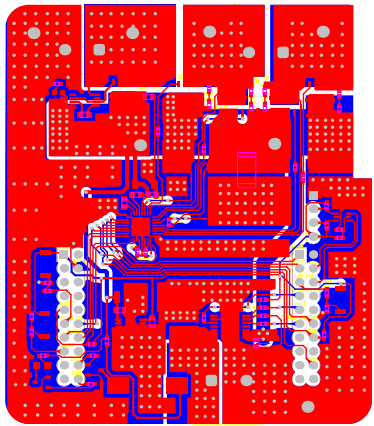


ALL ARTWORK VIEWED FROM TOP SIDE	BOARD #: TIDA-060009	REV: E1	SUN REV: Not In VersionControl
LAYER NAME =	TID #:	TIDA-060009	
PLOT NAME = Printout Set for Class All Layers	GENERATED :	6/29/2018 1:30:16 PM	TEXAS INSTRUMENTS

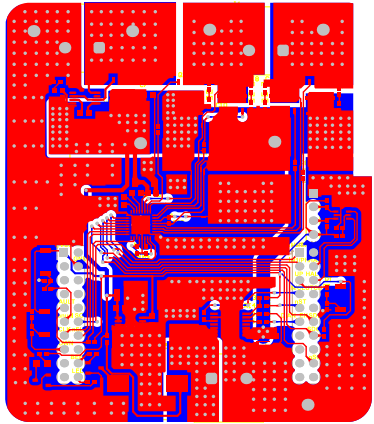
Layer	Name	Material	Thickness	Color	Board Layer	Style
1	Top Overlay					
2	Top Solder	Solder Resist	0.10mil	3.0		-----
3	Top Layer	Copper	1.40mil	1.0		-----
4	Dielectric	FR-4	88.2mil	4.0		-----
5	Bottom Layer	Copper	1.40mil	1.0		-----
6	Bottom Solder	Solder Resist	0.10mil	3.0		-----
7	Bottom Overlay					



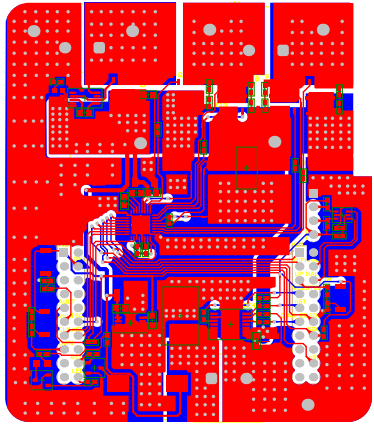
M12 Stackup



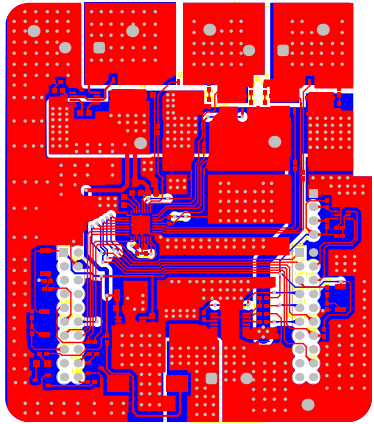
M13 Component Bodies Top



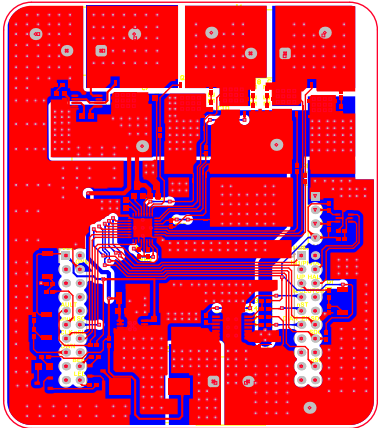
M14 Component Bodies Bottom



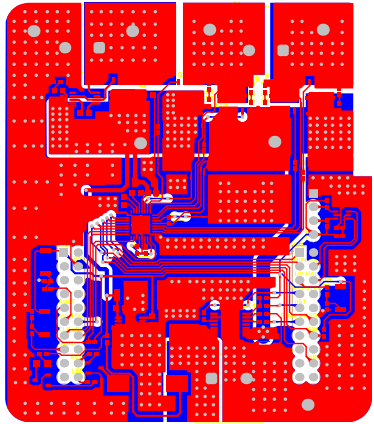
M15 Courtyards Top

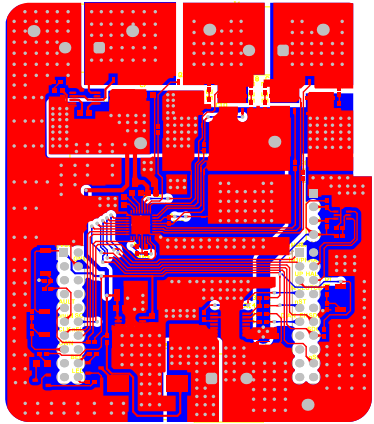


M16 Courtyards Bottom

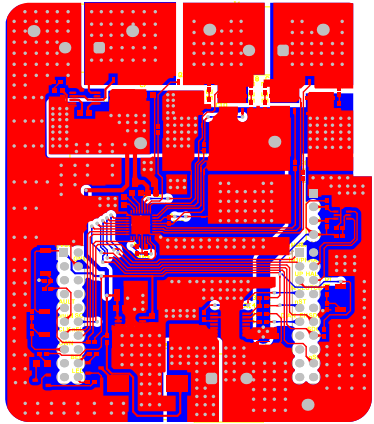


Layer	Color	Material	Thickness	Drill Size	Plating	Annular Ring	Min. Annular Ring
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02	Blue	FR-4	0.127	0.354	None	0.0762	0.0762
03	Blue	FR-4	0.127	0.354	None	0.0762	0.0762
04	Blue	FR-4	0.127	0.354	None	0.0762	0.0762
05	Blue	FR-4	0.127	0.354	None	0.0762	0.0762
06	Blue	FR-4	0.127	0.354	None	0.0762	0.0762
07	Blue	FR-4	0.127	0.354	None	0.0762	0.0762
08	Blue	FR-4	0.127	0.354	None	0.0762	0.0762
09	Blue	FR-4	0.127	0.354	None	0.0762	0.0762
10	Blue	FR-4	0.127	0.354	None	0.0762	0.0762
11	Blue	FR-4	0.127	0.354	None	0.0762	0.0762
12	Blue	FR-4	0.127	0.354	None	0.0762	0.0762
13	Blue	FR-4	0.127	0.354	None	0.0762	0.0762
14	Blue	FR-4	0.127	0.354	None	0.0762	0.0762
15	Blue	FR-4	0.127	0.354	None	0.0762	0.0762
16	Blue	FR-4	0.127	0.354	None	0.0762	0.0762
17	Blue	FR-4	0.127	0.354	None	0.0762	0.0762
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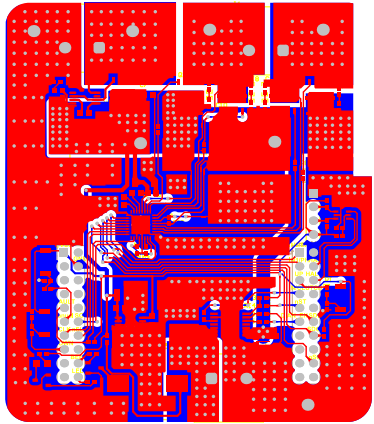




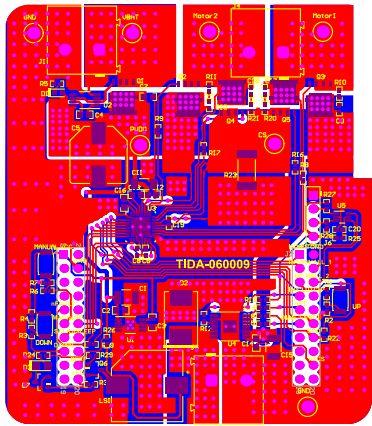
M17 Embedded Cavity



M18 Embedded Assembly



M19 Embedded Keepout



M1 Board Outline

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