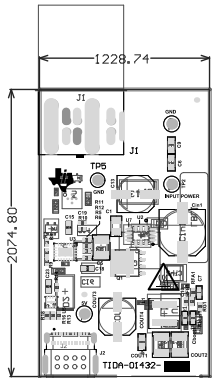


Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.8	
3	Top Layer	Copper	1.40mil		
4	Dielectric1	FR-4	6.00mil	4.8	
5	Signal Layer 1	Copper	1.40mil		
6	Dielectric2		44.00mil	4.2	
7	Signal Layer 2	Copper	1.40mil		
8	Dielectric 3		6.00mil	4.2	
9	Bottom Layer	Copper	1.40mil		
10	Bottom Solder	Solder Resist	0.40mil	3.8	
11	Bottom Overlay				

- Z21 ■ Install label in silkscreened box after final wash. Text shall be 8 pt font. Text shall be per the Label Table in the PDF schematic.
- Z22 ■ These assemblies are ESD sensitive, ESD precautions shall be observed.
- Z23 ■ These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.
- Z24 ■ These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.



COMPONENTS MARKED 'DNP' SHOULD NOT BE POPULATED.
ASSEMBLY VARIANT: [No Variations]

DATE: 09/18/2017 09:18:30 AM
USER: hboenzi

REV	DATE	BY	DESCRIPTION
1	09/18/2017	hboenzi	Initial Release

BOARD # : TIDA01432-01
 QTY : 1
 SW REV : Not in Version Control
 LAYER NAME : **MPC13120**
 FILE NAME : **TopLayerAssembly** Drawing
 GENERATED : 9/18/2017 9:18:30 AM
 TIME : 3:22:03 PM
 COMPANY : TEXAS INSTRUMENTS

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DESIGN INFORMATION

MIN. TRACK WIDTH: 8 MIL
 MIN. CLEARANCE: 8 MIL
 MIN. VIA PAD SIZE: 16 MIL

MINIMUM ANNULAR RING 0.05mm (2MIL) EXTERNAL
 PER IPC-D-275 CLASS 2 LEVEL C
 REGISTRATION TOLERANCES: METAL +/- 5 MIL, HOLES +/- 3 MIL
 HOLE SIZE TOLERANCE (UNLESS OTHERWISE SPECIFIED): +/- 3 MIL

MATERIAL:

FR-40B FR-4 High Tg OTHER

THICKNESS: 62 MIL (1.6mm) +/-10% OTHER

TOLERANCE: ANSI IPC-6012 TYPE 3 CLASS 2
 OTHER +/-

BOW & TWIST: ANSI IPC-6012 TYPE 3 CLASS 2
 OTHER +/-

DRILLING:

REFERENCE: AS SHOWN NC DRILL FILES
 PTH COPPER THICKNESS: 20-30 um OTHER

BOARD FINISH:

SILKSCREEN: TOP BOTTOM
 SILKSCREEN COLOR: WHITE OTHER
 SOLDER RESIST COLOR: GREEN OTHER
 MATTE SEMI-GLOSS

SURFACE FINISH: IMMERSION GOLD (ENIG) ENEPIG
 IMM. TN/SILVER OR EQUIV OTHER

ARRAY/PANEL: CUT AND TRIM PER M1 BOARD OUTLINE
 N.C. ROUTE V. SCORE

CERTIFICATION: MATERIALS AND WORKMANSHIP FOR ALL PCBs TO MEET OR EXCEED THE REQUIREMENTS OF:
 ANSI IPC-A-600F CLASS -> 1 2 3
 RoHS OTHER PER ORDER

ALL BOARDS MUST MEET OR EXCEED UL94-V0 REQUIREMENTS.
 PCB MUST BEAR THE UL94V-0 UL REGISTERED MATERIAL ID NUMBER

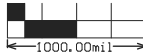
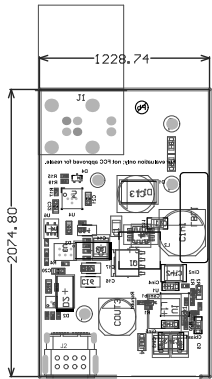
ADDITIONAL REQUIREMENTS:
 MICROSECTION: YES
 BARE BOARD ELEC. TEST: NONE REQUIRED PER ORDER



PROJECT TITLE: TIDA-01432	DESIGNED FOR: Not for Public Release
FILE NAME: TIDA-01432_E1.PcbDoc	ENGINEER: H. Bovenzi
SCALE: 1.00	LAYOUT BY: Bovenzi/Clanin
	ALTIM DESIGNER VERSION: 17.1.5.472

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.8	
3	Top Layer	Copper	1.40mil		
4	Dielectric1	FR-4	6.00mil	4.8	
5	Signal Layer 1	Copper	1.40mil		
6	Dielectric2		44.00mil	4.2	
7	Signal Layer 2	Copper	1.40mil		
8	Dielectric 3		6.00mil	4.2	
9	Bottom Layer	Copper	1.40mil		
10	Bottom Solder	Solder Resist	0.40mil	3.8	
11	Bottom Overlay				

- Z21 ■ Install label in silkscreened box after final wash. Text shall be 8 pt font. Text shall be per the Label Table in the PDF schematic.
- Z22 ■ These assemblies are ESD sensitive, ESD precautions shall be observed.
- Z23 ■ These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.
- Z24 ■ These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.



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ASSEMBLY VARIANT: [No Variations]

DATE: 09/18/2017 3:22:10 PM
USER: [Name]

REV	DATE	BY	DESCRIPTION
1	09/18/2017	[Name]	Initial Release

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DESIGN INFORMATION

MIN. TRACK WIDTH: 8 MIL
 MIN. CLEARANCE: 8 MIL
 MIN. VIA PAD SIZE: 16 MIL

MINIMUM ANNULAR RING 0.05mm (2ML) EXTERNAL
 PER IPC-D-275 CLASS 2 LEVEL C
 REGISTRATION TOLERANCES: METAL +/- 5 MIL, HOLES +/- 3 MIL
 HOLE SIZE TOLERANCE (UNLESS OTHERWISE SPECIFIED): +/- 3 MIL

MATERIAL:

FR-408 FR-4 High Tg OTHER

THICKNESS: 62 MIL (1.6mm) +/- 10% OTHER

TOLERANCE: ANSI IPC-6012 TYPE 3 CLASS 2
 OTHER +/-

BOW & TWIST: ANSI IPC-6012 TYPE 3 CLASS 2
 OTHER +/-

DRILLING:

REFERENCE: AS SHOWN NC DRILL FILES
 PTH COPPER THICKNESS: 20-30 um OTHER

BOARD FINISH:

SILKSCREEN: TOP BOTTOM
 SILKSCREEN COLOR: WHITE OTHER
 SOLDER RESIST COLOR: GREEN OTHER
 MATTE SEMI-GLOSS

SURFACE FINISH: IMMERSION GOLD (ENIG) ENEPIG
 IMM. TIN/SILVER OR EQUIV OTHER

ARRAY/PANEL: CUT AND TRIM PER M1 BOARD OUTLINE
 N.C. ROUTE V. SCORE

CERTIFICATION: MATERIALS AND WORKMANSHIP FOR ALL PCBs TO MEET OR EXCEED THE REQUIREMENTS OF:
 ANSI IPC-A-600F CLASS -> 1 2 3
 RoHS OTHER PER ORDER

ALL BOARDS MUST MEET OR EXCEED UL94-V0 REQUIREMENTS.
 PCB MUST BEAR THE UL94V-0 UL REGISTERED MATERIAL ID NUMBER

ADDITIONAL REQUIREMENTS:

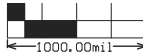
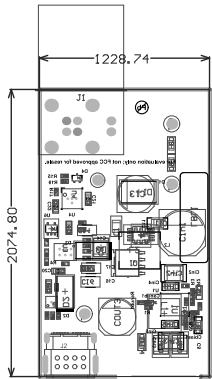
MICROSECTION: YES
 BARE BOARD ELEC. TEST: NONE REQUIRED PER ORDER



PROJECT TITLE: TIDA-01432	DESIGNED FOR: Not for Public Release
FILE NAME: TIDA-01432_E1.PcbDoc	ENGINEER: H. Bovenzi
SCALE: 1.00	LAYOUT BY: Bovenzi/Clanin
	ALTIM DESIGNER VERSION: 17.1.5.472

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.8	
3	Top Layer	Copper	1.40mil		
4	Dielectric1	FR-4	6.00mil	4.8	
5	Signal Layer 1	Copper	1.40mil		
6	Dielectric2		44.00mil	4.2	
7	Signal Layer 2	Copper	1.40mil		
8	Dielectric 3		6.00mil	4.2	
9	Bottom Layer	Copper	1.40mil		
10	Bottom Solder	Solder Resist	0.40mil	3.8	
11	Bottom Overlay				

- Z21 ■ Install label in silkscreened box after final wash. Text shall be 8 pt font. Text shall be per the Label Table in the PDF schematic.
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ASSEMBLY VARIANT: [No Variations]

DATE: 09/18/2017 09:18:30 AM
USER: jgarcia

REV	DATE	BY	DESCRIPTION
1	09/18/2017	jgarcia	Initial Release

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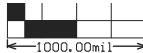
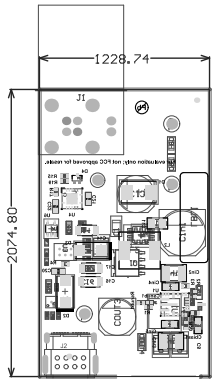
DESIGN INFORMATION	
MIN. TRACK WIDTH:	8_MIL
MIN. CLEARANCE:	8_MIL
MIN. VIA PAD SIZE:	16_MIL
MINIMUM ANNULAR RING 0.05mm (2ML) EXTERNAL PER IPC-D-275 CLASS 2 LEVEL C REGISTRATION TOLERANCES: METAL +/- 5_MIL, HOLES +/- 3_MIL HOLE SIZE TOLERANCE (UNLESS OTHERWISE SPECIFIED): +/- 3_MIL	
MATERIAL:	
FR-408	<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 (ENIG) <input type="checkbox"/> ENEPIG <input type="checkbox"/> IMM. TIN/SILVER OR EQUIV <input type="checkbox"/> OTHER
ARRAY/PANEL:	<input type="checkbox"/> CUT AND TRIM PER M1 BOARD OUTLINE <input checked="" type="checkbox"/> N.C. ROUTE <input 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 type="checkbox"/> RoHS <input type="checkbox"/> OTHER PER ORDER
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



PROJECT TITLE: TIDA-01432	
DESIGNED FOR: Not for Public Release	
FILE NAME: TIDA-01432_E1.PcbDoc	
ENGINEER: H. Bovenzi	LAYOUT BY: Bovenzi/Clanin
SCALE: 1.00	ALTIM DESIGNER VERSION: 17.1.5.472

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.8	
3	Top Layer	Copper	1.40mil		
4	Dielectric1	FR-4	6.00mil	4.8	
5	Signal Layer 1	Copper	1.40mil		
6	Dielectric2		44.00mil	4.2	
7	Signal Layer 2	Copper	1.40mil		
8	Dielectric 3		6.00mil	4.2	
9	Bottom Layer	Copper	1.40mil		
10	Bottom Solder	Solder Resist	0.40mil	3.8	
11	Bottom Overlay				

- Z21 ■ Install label in silkscreened box after final wash. Text shall be 8 pt font. Text shall be per the Label Table in the PDF schematic.
- Z22 ■ These assemblies are ESD sensitive, ESD precautions shall be observed.
- Z23 ■ These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.
- Z24 ■ These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.



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ASSEMBLY VARIANT: [No Variations]

DATE: 09/18/2017 09:18:30 AM
USER: jgibson

PCB NAME: MC100L01	DATE: 9/18/2017	TIME: 9:18:30 AM	USER: jgibson	PROJECT: MC100L01	DESCRIPTION: MC100L01 Assembly Drawing
DESIGNED BY: jgibson	DESIGNED DATE: 9/18/2017	DESIGNED TIME: 9:18:30 AM	DESIGNED USER: jgibson	DESIGNED PROJECT: MC100L01	DESIGNED DESCRIPTION: MC100L01 Assembly Drawing
CHECKED BY: jgibson	CHECKED DATE: 9/18/2017	CHECKED TIME: 9:18:30 AM	CHECKED USER: jgibson	CHECKED PROJECT: MC100L01	CHECKED DESCRIPTION: MC100L01 Assembly Drawing
APPROVED BY: jgibson	APPROVED DATE: 9/18/2017	APPROVED TIME: 9:18:30 AM	APPROVED USER: jgibson	APPROVED PROJECT: MC100L01	APPROVED DESCRIPTION: MC100L01 Assembly Drawing

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DESIGN INFORMATION

MIN. TRACK WIDTH: 8 MIL
MIN. CLEARANCE: 8 MIL
MIN. VIA PAD SIZE: 16 MIL

MINIMUM ANNULAR RING 0.05mm (2ML) EXTERNAL
PER IPC-D-275 CLASS 2 LEVEL C
REGISTRATION TOLERANCES: METAL +/- 5 MIL, HOLES +/- 3 MIL
HOLE SIZE TOLERANCE (UNLESS OTHERWISE SPECIFIED): +/- 3 MIL

MATERIAL:
FR-408 FR-4 High Tg OTHER
THICKNESS: 62 MIL (1.6mm) +/-10% OTHER
TOLERANCE: ANSI IPC-6012 TYPE 3 CLASS 2
 OTHER +/-
BOW & TWIST: ANSI IPC-6012 TYPE 3 CLASS 2
 OTHER +/-

DRILLING:
REFERENCE: AS SHOWN NC DRILL FILES
PTH COPPER THICKNESS: 20-30 um OTHER

BOARD FINISH:
SILKSCREEN: TOP BOTTOM
SILKSCREEN COLOR: WHITE OTHER
SOLDER RESIST COLOR: GREEN OTHER
 MATTE SEMI-GLOSS

SURFACE FINISH: IMMERSION GOLD (ENIG) ENEPIG
 IMM. TIN/SILVER OR EQUIV OTHER

ARRAY/PANEL: CUT AND TRIM PER M1 BOARD OUTLINE
 N.C. ROUTE V. SCORE

CERTIFICATION: MATERIALS AND WORKMANSHIP FOR ALL PCBs TO MEET OR EXCEED THE REQUIREMENTS OF:
 ANSI IPC-A-600F CLASS -> 1 2 3
 RoHS OTHER PER ORDER

ALL BOARDS MUST MEET OR EXCEED UL94-V0 REQUIREMENTS.
PCB MUST BEAR THE UL94V-0 UL REGISTERED MATERIAL ID NUMBER

ADDITIONAL REQUIREMENTS:
MICROSECTION: YES
BARE BOARD ELEC. TEST: NONE REQUIRED PER ORDER



PROJECT TITLE:
TIDA-01432

DESIGNED FOR:
Not for Public Release

FILE NAME:
TIDA-01432_E1.PcbDoc

ENGINEER:
H. Bovenzi

LAYOUT BY:
Bovenzi/Clanin

SCALE: 1.00

ALTIM DESIGNER VERSION:
17.1.5.472

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