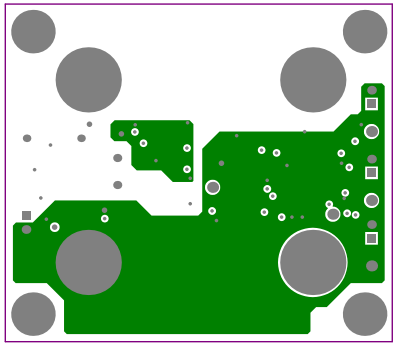
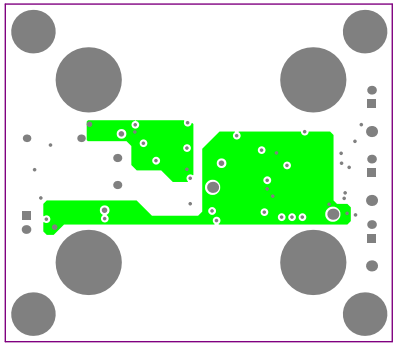


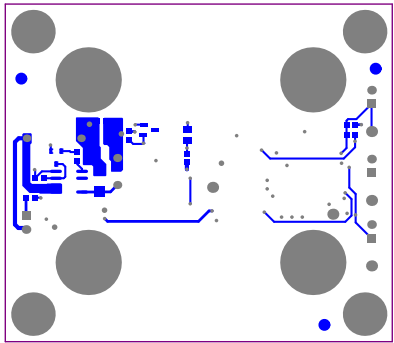
ALL ARTWORK VIEWED FROM TOP SIDE	BOARD #: TIDA-00442	REV: E2	SUN REV: Not In VersionControl
LAYER NAME = Top Layer			
PLOT NAME = Top Layer	GENERATED : 6/9/2015 12:16:05 PM	TEXAS INSTRUMENTS	



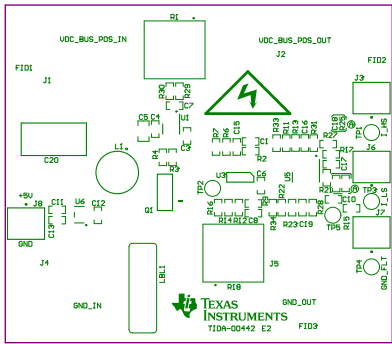
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LAYER NAME = GND			
PLOT NAME = GND	GENERATED : 6/9/2015 12:16:05 PM	TEXAS INSTRUMENTS	



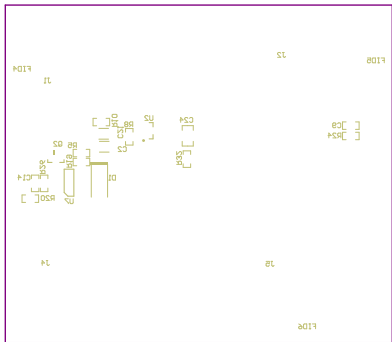
ALL ARTWORK VIEWED FROM TOP SIDE	BOARD #: TIDA-00442	REV: E2	SUN REV: Not In VersionControl
LAYER NAME = POWER			
PLOT NAME = POWER	GENERATED : 6/9/2015 12:16:05 PM	TEXAS INSTRUMENTS	



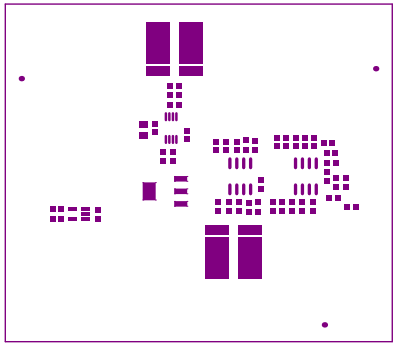
ALL ARTWORK VIEWED FROM TOP SIDE	BOARD #: TIDA-00442	REV: E2	SUN REV: Not In VersionControl
LAYER NAME = Bottom Layer			
PLOT NAME = Bottom Layer	GENERATED : 6/9/2015 12:16:05 PM	TEXAS INSTRUMENTS	



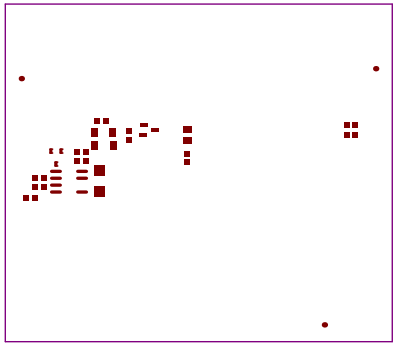
ALL ARTWORK VIEWED FROM TOP SIDE	BOARD #: TIDA-00442	REV: E2	SUN REV: Not In VersionControl
LAYER NAME = Top Overlay			
PLOT NAME = Top Silkscreen Overlay	GENERATED : 6/9/2015	12:16:05 PM	TEXAS INSTRUMENTS



ALL ARTWORK VIEWED FROM TOP SIDE	BOARD #: TIDA-00442	REV: E2	SUN REV: Not In VersionControl
LAYER NAME = Bottom Overlay			
PLOT NAME = Bottom Silkscreen Overlay	GENERATED : 6/9/2015 12:16:06 PM	TEXAS INSTRUMENTS	

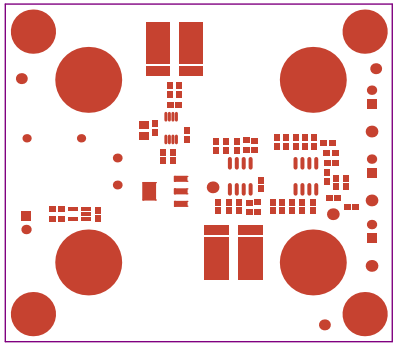


ALL ARTWORK VIEWED FROM TOP SIDE	BOARD #: TIDA-00442	REV: E2	SUN REV: Not In VersionControl
LAYER NAME = Top Paste			
PLOT NAME = Top Paste Mask Print	GENERATED : 6/9/2015 12:16:06 PM	TEXAS INSTRUMENTS	

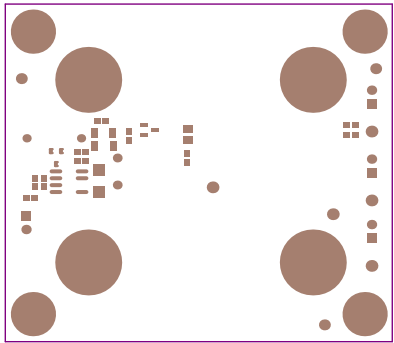


ALL ARTWORK VIEWED FROM TOP SIDE	BOARD #: TIDA-00442	REV: E2	SUN REV: Not In VersionControl
LAYER NAME = Bottom Paste			
PLOT NAME = Bottom Paste Mask Print	GENERATED : 6/9/2015 12:16:06 PM	TEXAS INSTRUMENTS	



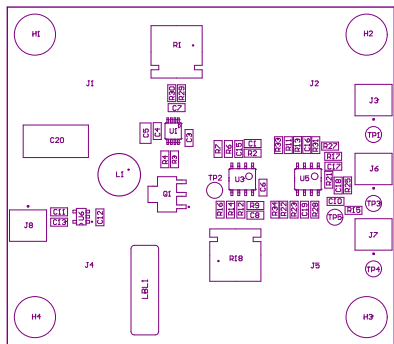


ALL ARTWORK VIEWED FROM TOP SIDE	BOARD #: TIDA-00442	REV: E2	SUN REV: Not In VersionControl
LAYER NAME = Top Solder			
PLOT NAME = Top Solder Mask Print	GENERATED : 6/9/2015 12:16:06 PM	TEXAS INSTRUMENTS	



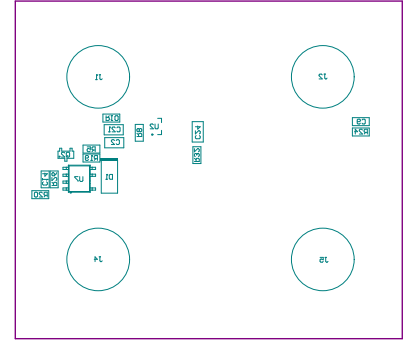
ALL ARTWORK VIEWED FROM TOP SIDE	BOARD #: TIDA-00442	REV: E2	SUN REV: Not In VersionControl
LAYER NAME = Bottom Solder			
PLOT NAME = Bottom Solder Mask Print	GENERATED : 6/9/2015 12:16:06 PM	TEXAS INSTRUMENTS	

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 VARIANTS: [No Variants]

PCB VIEWED FROM TOP SIDE	BOMRD R:	TIDA-00442	REV:	E2	SUN REV:	Not In VersionControl
LAYER NAME =	MS Assembly Top					
PLOT NAME =	GENERATED :	6/9/2015	12:16:07 PM	TEXAS INSTRUMENTS		



COMPONENTS MARKED 'DNP' SHOULD NOT BE PLACED.  
 (no values)

ROB VIEWED FROM BOTTOM SIDE		BOARD #	L104-00445	REV#	E3	REV#	Not in Use/Outdated
LAYER NAME =		The Assembly's Bottom					
PART NAME =		The Assembly's Bottom					
DESCRIPTION :		9-9-2018 12:11:00 PM LEMAS 184816218					

Layer Name	Gerber Document	Copper Thickness	Dielectric Material
Top Solder Mask	(.GTS)		Solder Resist
Top Layer	(.GTL)	1.4mil	FR-4
GND	(.G1)	1.4mil	FR-4
POKER	(.G2)	1.4mil	FR-4
Bottom Layer	(.GBL)	1.4mil	FR-4
Bottom Solder Mask	(.GBS)		Solder Resist

**DESIGN INFORMATION**

BOARD SIZE (REFER ALSO ARRAY/PANEL PROFILING INFORMATION)  
 2800.00 MIL X 2450.00MIL  
 MIN. TRACK WIDTH: 15 MIL  
 MIN. CLEARANCE: 7.874 MIL  
 MIN. VIA PAD SIZE: 26 MIL  
 MINIMUM ANNUAL RING: 1778mm (7MIL) EXTERNAL  
 PER IPC-D-275 CLASS 2 LEVEL C  
 REGISTRATION TOLERANCES: METAL +/- .5 MIL, HOLES +/- .3 MIL

**MATERIAL:**  
 FR-408  FR-4 High Tg  OTHER FR-4  
 THICKNESS:  63 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 MIN COPPER THICKNESS:  1MIL  OTHER \_\_\_\_\_

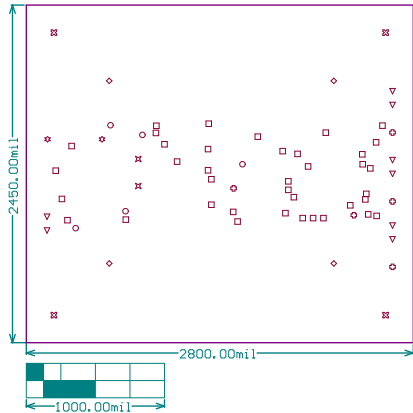
**BOARD FINISH:**  
 SILKSCREEN:  TOP  BOTTOM  
 SILKSCREEN COLOR:  WHITE  OTHER \_\_\_\_\_  
 SOLDER RESIST COLOR:  
 GREEN  BLUE  OTHER \_\_\_\_\_

**SURFACE FINISH:**  IMMERSION GOLD (ENIG)  ENERP  
 IMM. TIN/SILVER OR EQUIV  OTHER \_\_\_\_\_

**ARRAY/PANEL:**  CUT AND TRM PER MECH LAYER 1  
 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  
 UL 94V-0  RoHS  OTHER PER ORDER

**ADDITIONAL REQUIREMENTS:** VIA TENTING: YES  NO   
 MICROSECTION:  YES IMPEDANCE CONTROL: YES  NO   
 BARE BOARD ELEC. TEST:  NONE  REQUIRED  PER ORDER  
 MANUFACTURER'S UL:  RAL  METAL  SLK



Drill Table

Symbol	Hit Count	Tool Size	Plated	Hole Type
□	38	12mil (0.305mm)	PTH	Round
○	5	20mil (0.508mm)	PTH	Round
*	2	35.433mil (0.9mm)	PTH	Round
x	2	39.37mil (1mm)	PTH	Round
◇	5	40mil (1.016mm)	PTH	Round
▽	8	43.307mil (1.1mm)	PTH	Round
⊗	4	125.984mil (3.2mm)	PTH	Round
◇	4	270mil (6.858mm)	PTH	Round
	68 Total			

DRILL TOLERANCE  
 FOR PTH +/- .3MIL  
 12mil drill: +/- .12mil  
 20mil drill: +/- .20mil

ALL ARTWORK VIEWED FROM TOP SIDE	BOARD #: TIDA-00442	REV: E2	SUN REV: Not In Version Control
LAYER NAME = Drill Drawing	DATE PLOTTED: 6/9/2015 12:16:07 PM		
PLOT NAME = Drill Drawing For (Bottom Layer) (Bottom Layer) (Bottom Layer)	TEXAS INSTRUMENTS		

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**TEXAS INSTRUMENTS**

PROJECT TITLE:  
450U Earth Leakage Protection

DESIGNED FOR:  
Public Release

FILE NAME:  
TIDA-00442.PcbDoc

ENGINEER:  
Pawan N

LAYOUT BY:  
Manjunath M

SCALE: 0.72

ALUM DESIGNER VERSION:  
10.0.0.22084

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