

H1 1 NY PMS 440 0025 PH
 H2 1 NY PMS 440 0025 PH
 H3 1 NY PMS 440 0025 PH
 H4 1 NY PMS 440 0025 PH

~~FID1~~
~~FID2~~
~~FID3~~

PCB Number:
 PCB Rev:

PCB LOGO
 Texas Instruments



PCB LOGO
 FCC disclaimer

PCB LOGO
 WEEE logo

Variant/Label Table	
Variant	Label Text
001	ChangeMe!
002	ChangeMe!

ZZ1
 Label Assembly Note
 This Assembly Note is for PCB labels only

ZZ2
 Assembly Note
 These assemblies are ESD sensitive, ESD precautions shall be observed.

ZZ3
 Assembly Note
 These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

ZZ4
 Assembly Note
 These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.

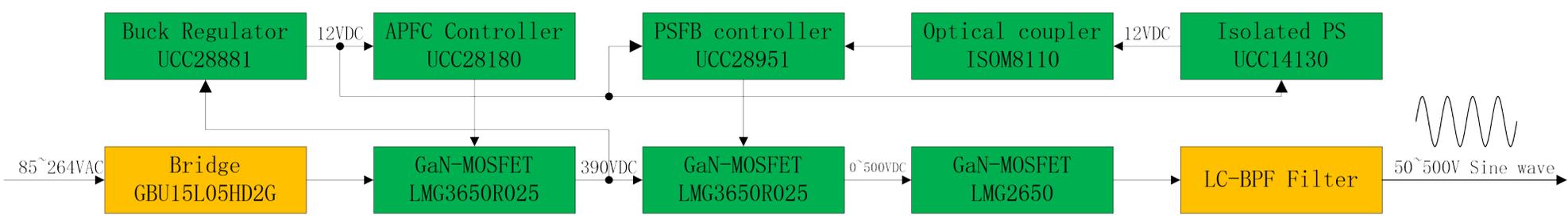
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Orderable: ChangeMe in variant	Designed for:	Mod. Date: 7/21/2025
TID #: TIDA-010974	Project Title: Electrosurgical Energy Platform	
Number:	Rev: 0.3	Sheet Title: APFC & Power Supply
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 1 of 4
Drawn By: Bill Xu	File: 01--Electrosurgical Unit Energy Platform Hardware	Sheet: 1 of 4
Engineer: Bill Xu	Contact:	



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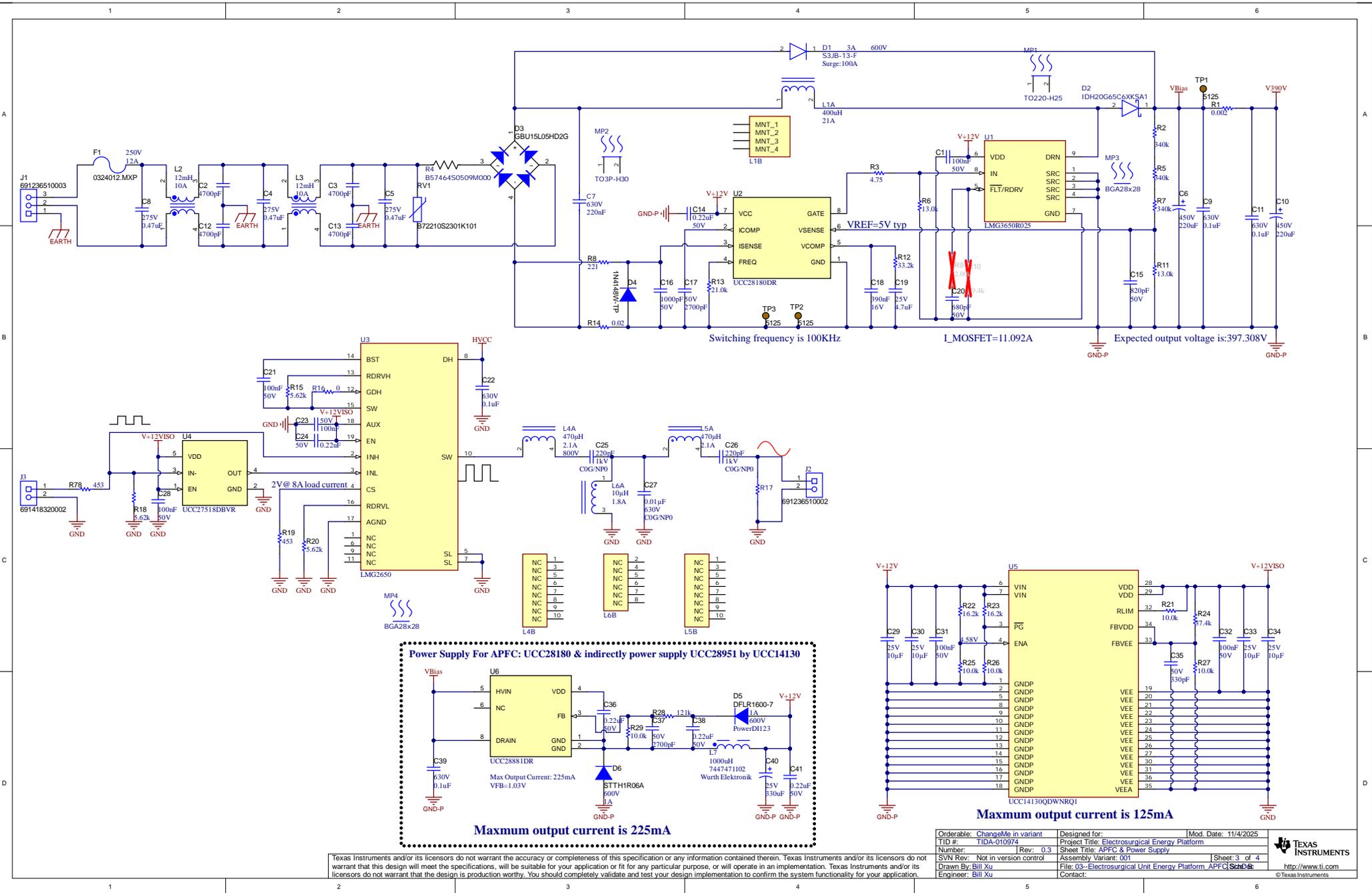
Revision History				
Rev	ECN #	Approved Date	Approved by	Notes
N/A	N/A	N/A	N/A	N/A



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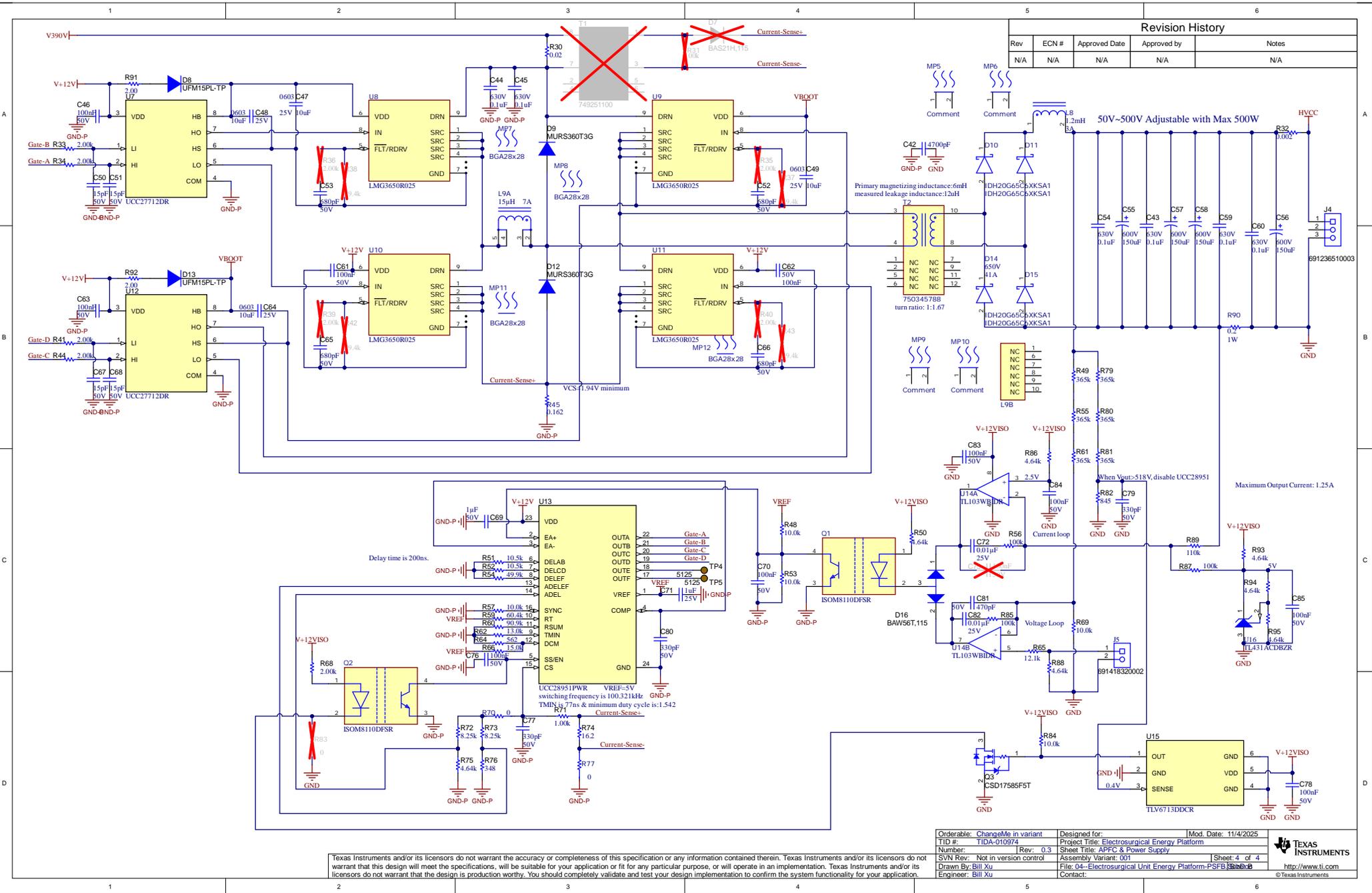
Orderable: ChangeMe in variant	Designed for:	Mod. Date: 7/4/2025
TID #: TIDA-010974	Project Title: Electrosurgical Energy Platform	
Number:	Rev: 0.3	Sheet Title: APFC & Power Supply
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 2 of 4
Drawn By: Bill Xu	File: 02-Electrosurgical Unit Energy Platform Block SizeSchDoc	http://www.ti.com
Engineer: Bill Xu	Contact:	©Texas Instruments



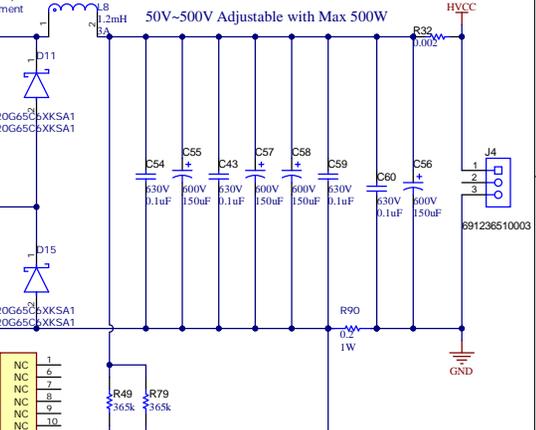


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Orderable: ChangeMe in variant	Designed for:	Mod. Date: 11/4/2025
TID #: TIDA-010974	Project Title: Electrosurgical Energy Platform	
Number:	[Rev: 0.3]	Sheet Title: APFC & Power Supply
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 3 of 4
Drawn By: Bill Xu	File: 03-Electrosurgical Unit Energy Platform APFC Schematic	http://www.ti.com
Engineer: Bill Xu	Contact:	©Texas Instruments



Revision History					
Rev	ECN #	Approved Date	Approved by	Notes	
N/A	N/A	N/A	N/A	N/A	

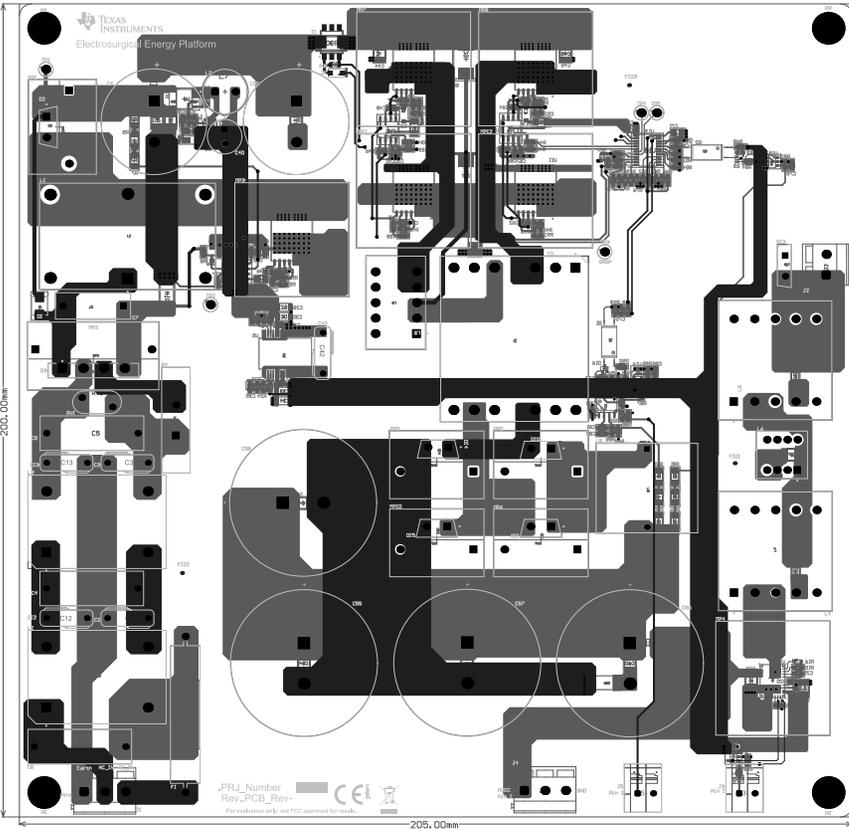


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Orderable: ChangeMe in variant	Designed for:	Mod. Date: 11/4/2025
TID #: TIDA-010974	Project Title: Electrosurgical Energy Platform	
Number: []	Rev: 0.3	Sheet Title: APFC & Power Supply
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 4 of 4
Drawn By: Bill Xu	File: 04-Electrosurgical Unit Energy Platform-PSFB_Schematic	http://www.ti.com
Engineer: Bill Xu	Contact:	©Texas Instruments

222 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.
 223 These assemblies are ESD sensitive. ESD precautions shall be observed.
 224 These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.
 225 These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.

Layer	Name	Material	Thickness	Constant	Board Layer Stack
	Top Overlay				
	Top Solder	Solder Resist	0.40mil	3.5	
1	Top Layer		2.80mil		
	Dielectric 1	PP-006	19.69mil	4.1	
2	Signal 1	CF-004	2.80mil		
	Dielectric	FR-4 High Tg	19.69mil	4.8	
3	Signal 2	CF-004	2.80mil		
	Dielectric 2	PP-006	19.69mil	4.1	
4	Bottom Layer		2.80mil		
	Bottom Solder	Solder Resist	0.40mil	3.5	
	Bottom Overlay				



DESIGN INFORMATION

MIN. TRACK WIDTH: 8 MIL
 MIN. CLEARANCE: 7.874 MIL
 MIN. VIA PAD SIZE: 24 MIL
 MINIMUM ANNUAL RING 0.05mm (2MIL) EXTERNAL
 PER IPC-D-275 CLASS 2 LEVEL 0
 REGISTRATION TOLERANCES: METAL +/- 5 MIL HOLES +/- 3 MIL
 HOLE SIZE TOLERANCE (UNLESS OTHERWISE SPECIFIED): +/- 3 MIL

MATERIAL:
 FR-4 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) ENIG
 IMM. TIN/SILVER OR EQUIV OTHER

ARRAY/PANEL: CUT AND TURN 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 UL94-V0 UL REGISTERED MATERIAL ID NUMBER**

ADDITIONAL REQUIREMENTS:
 MICROSECTION: YES

BARE BOARD ELEC. TEST: NONE REQUIRED PER ORDER
 XX MIL VIAS REQUIRE NON-CONDUCTIVE FILL AND PLANARIZE
 XX MIL VIAS REQUIRE CONDUCTIVE FILL AND PLANARIZE
 OUTER XX MIL TRACES REQUIRE 50 OHM SINGLE-ENDED IMPEDANCE
 LAYER 2 & 3 (INNER LAYERS) XX MIL WIDE, XX MIL SPACE
 TRACES REQUIRE 100 OHM DIFFERENTIAL IMPEDANCE

COMPONENTS MARKED 'DNP' SHOULD NOT BE ORDERED.
 ASSEMBLY VARIANTS: [No Variations]

PRJ Number: Rev_PCB_Rev
 PCB_Rev: SUN 3/28/2018 11:11:11 AM

GENESYS: 11:11:11 AM 3/28/2018

TECHNICAL SUPPORT: 24 HOURS

PROJECT TITLE: ElectroSurgical Energy Platform
DESIGNED FOR: .PRJ_Customer
FILE NAME: ElectroSurgical Unit Energy Platform.PcbDoc

DESIGNER: Bill Xu **LAYOUT BY:** .PCB_Layout
SCALE: 1.00 **ALTM DESIGNER VERSION:** 24.5.1.31