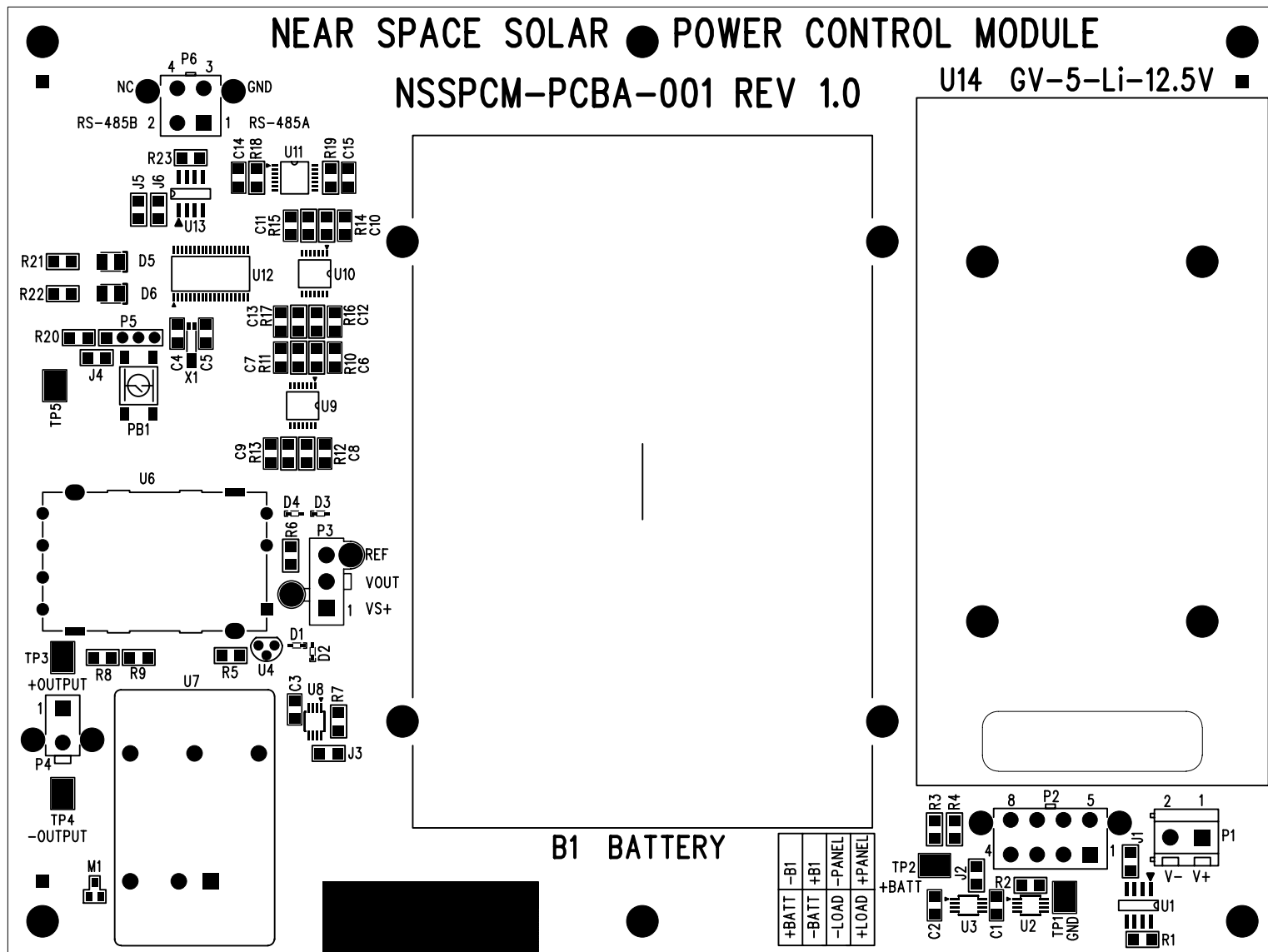


1X SCALE ASSEMBLY DRAWING

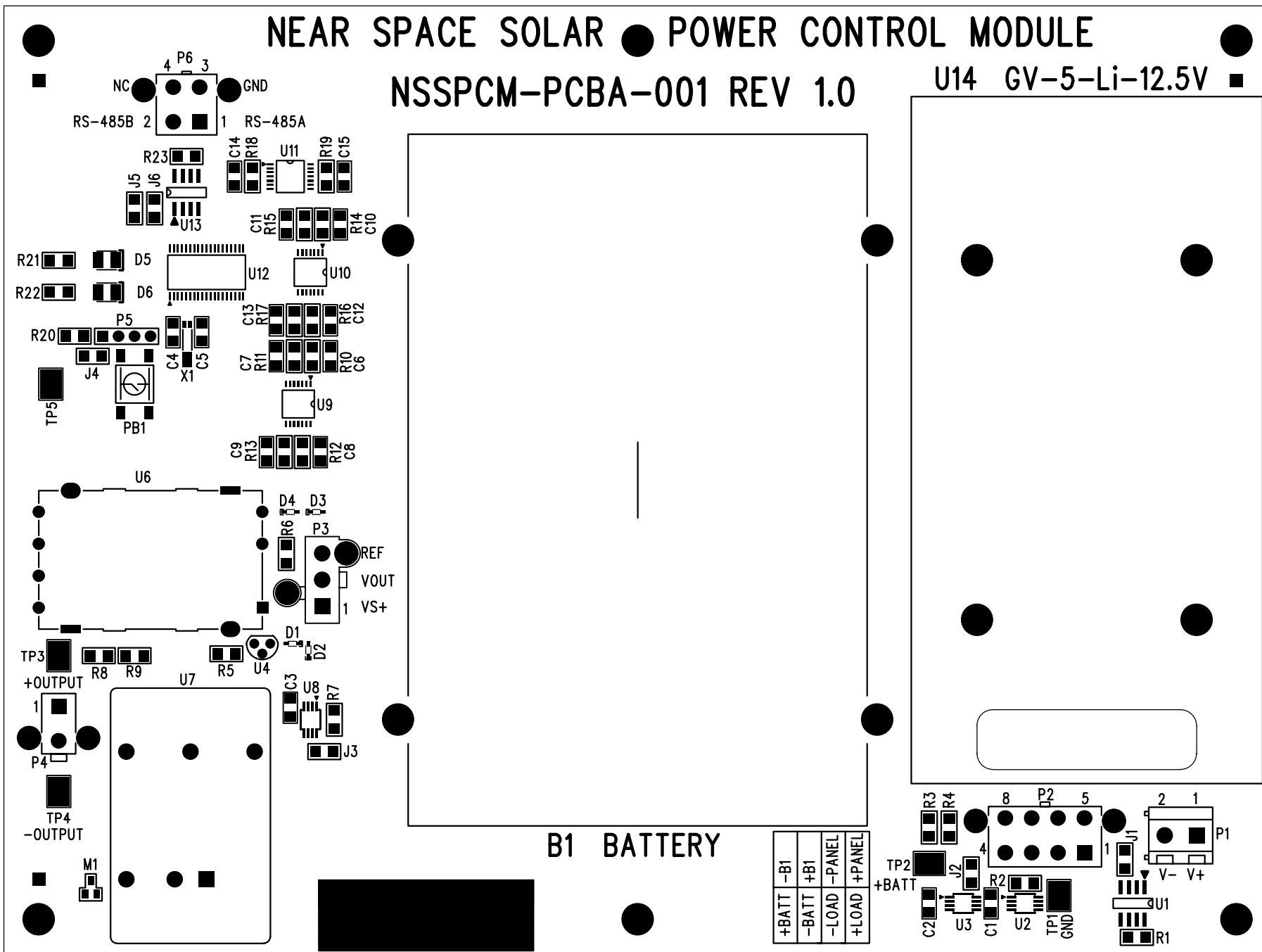


COMP SIDE SILK SCREEN ASSEMBLY DRAWING

NEAR SPACE SOLAR POWER CONTROL MODULE

NSSPCM-PCBA-001 REV 1.0

U14 GV-5-Li-12.5V

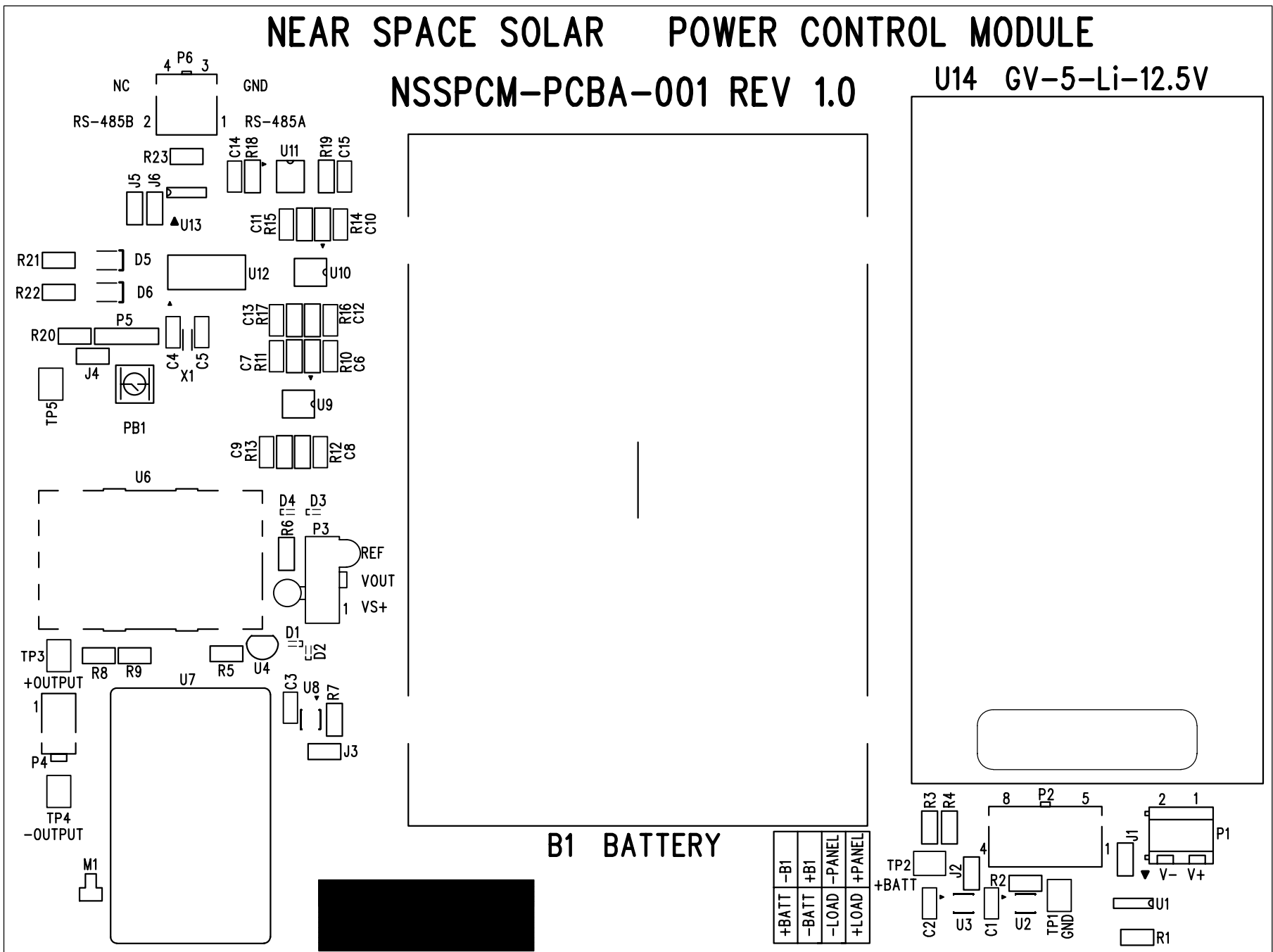


+BATT	-B1	+B1	-LOAD	-PANEL	+LOAD	+PANEL
-------	-----	-----	-------	--------	-------	--------

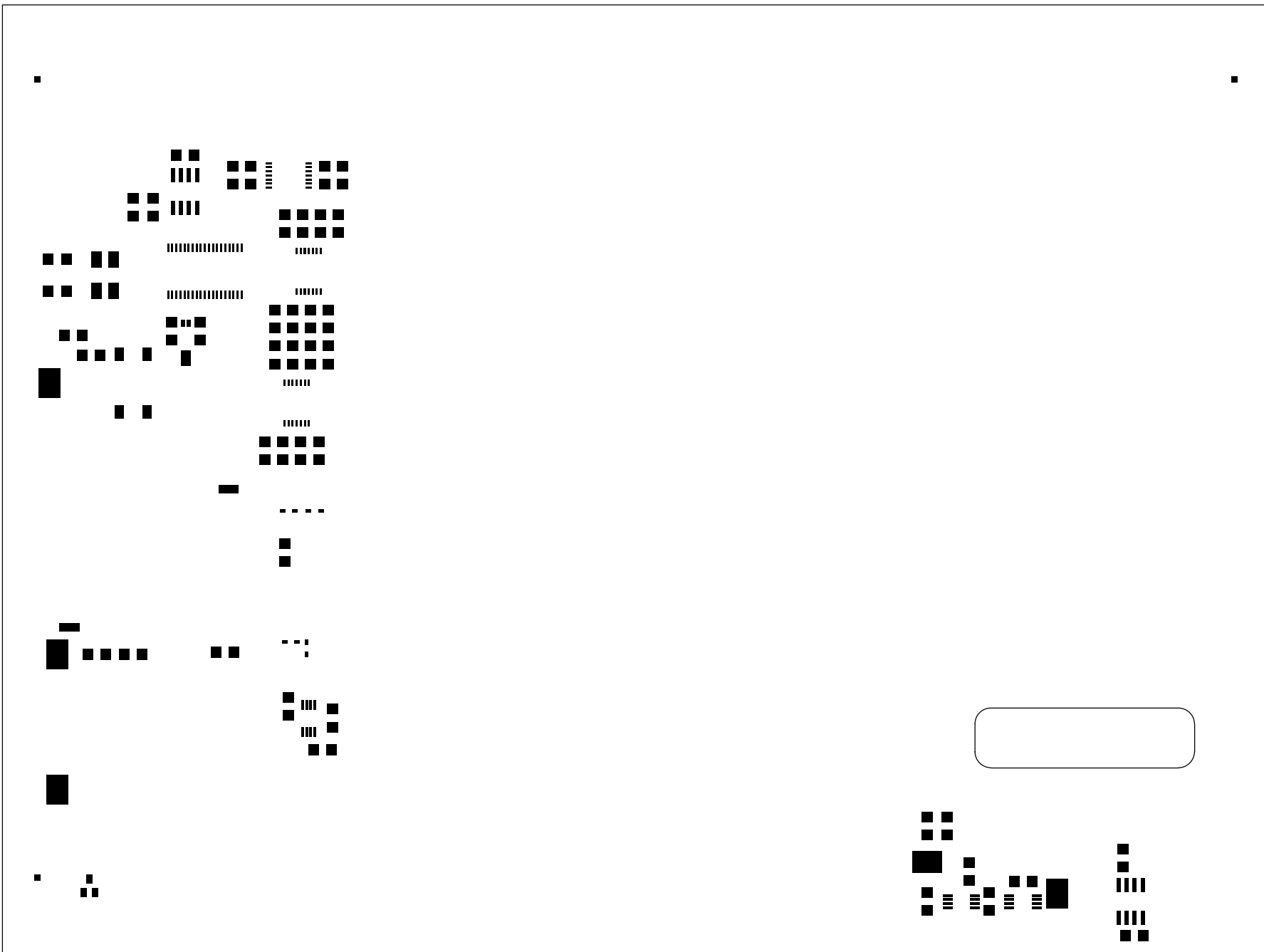
NEAR SPACE SOLAR POWER CONTROL MODULE

NSSPCM-PCBA-001 REV 1.0

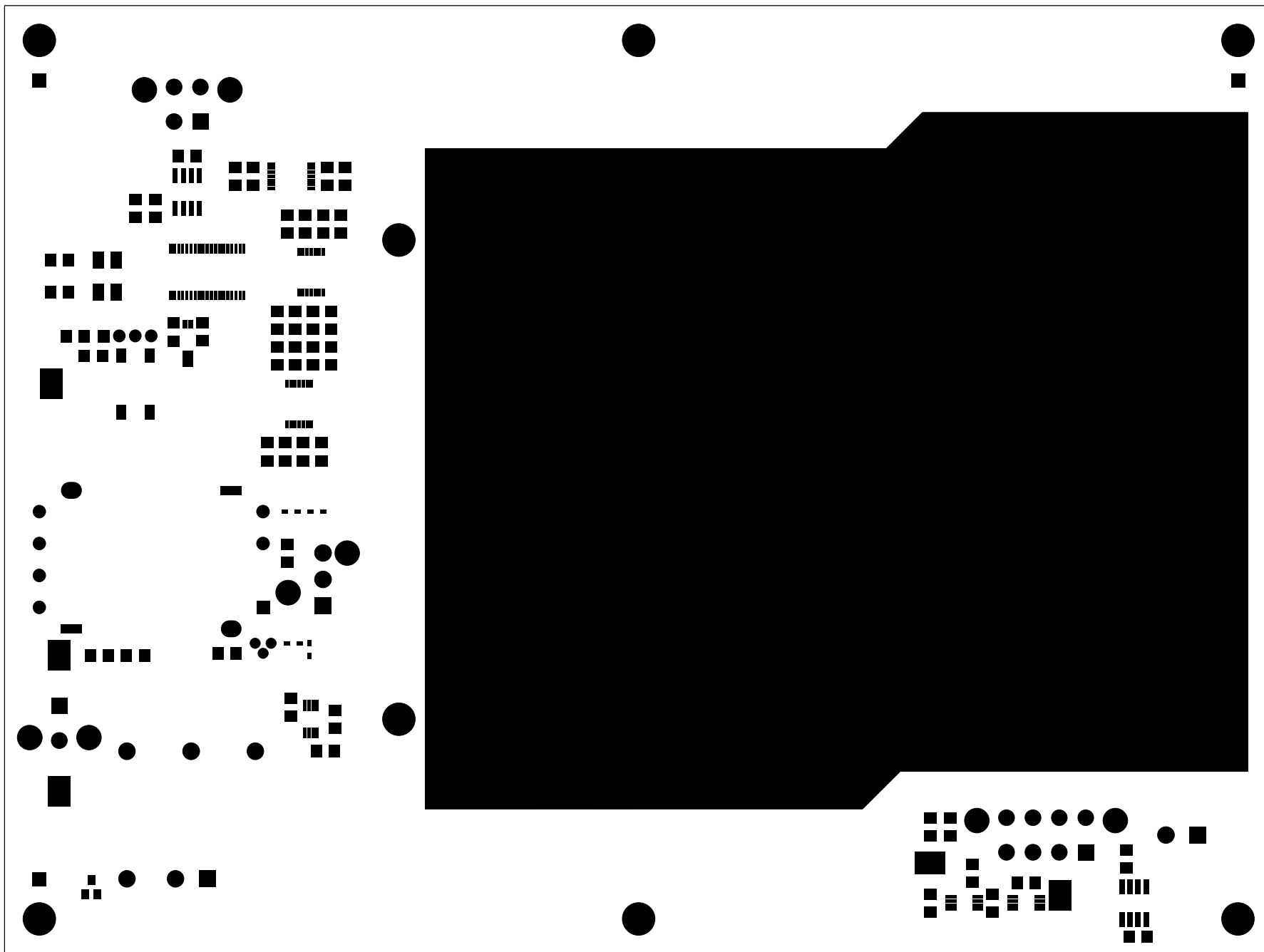
U14 GV-5-Li-12.5V

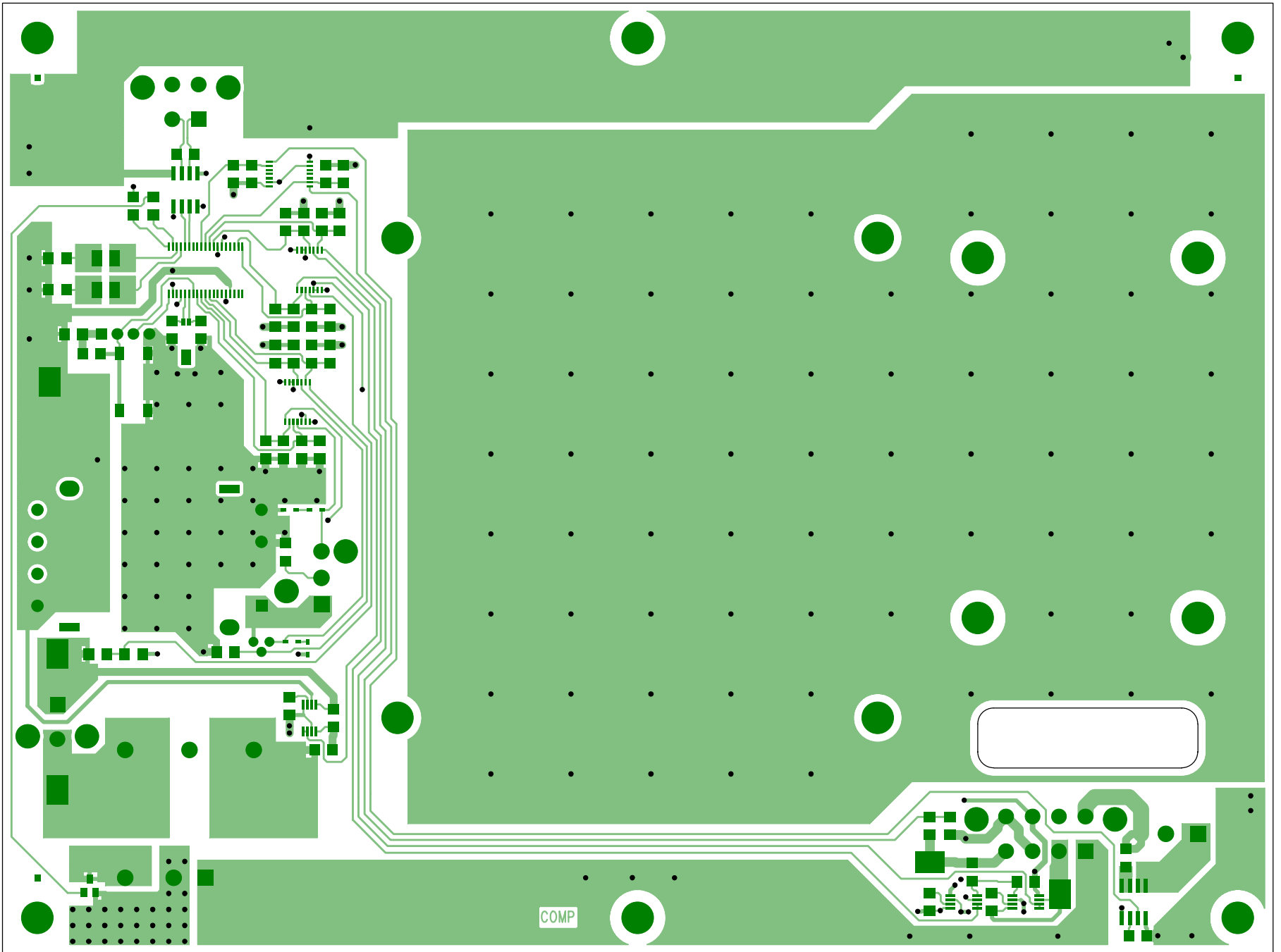


COMP SIDE SOLDER PASTE MASK

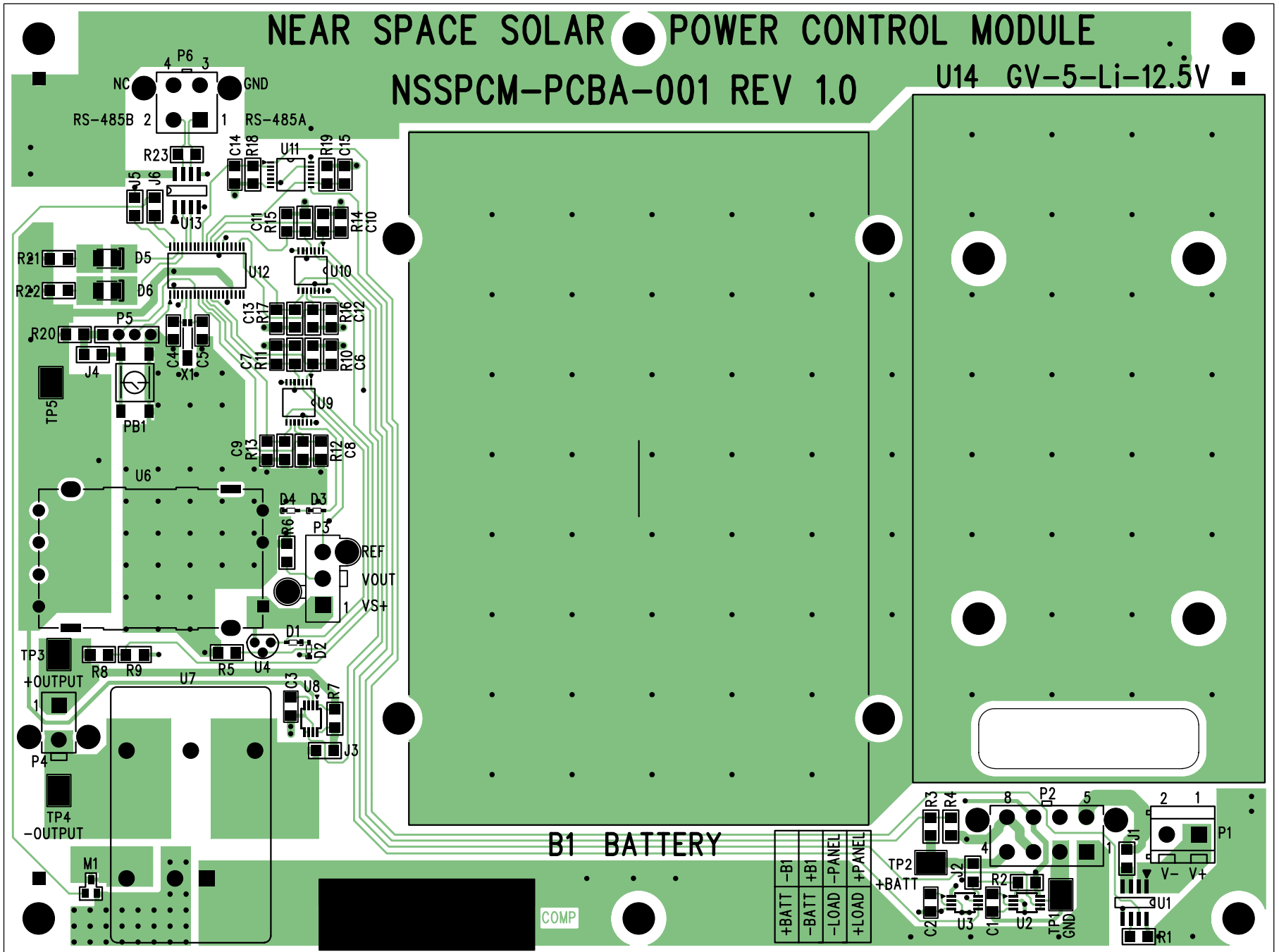


COMP SIDE SOLDER MASK





designed for RIT by Elmgrove Technologies Div. PHOTONAMICS, Inc. - Inv(53014A-53014)



designed for RIT by Elmgrove Technologies Div. PHOTONAMICS, Inc. - Inv(53014A-53014)

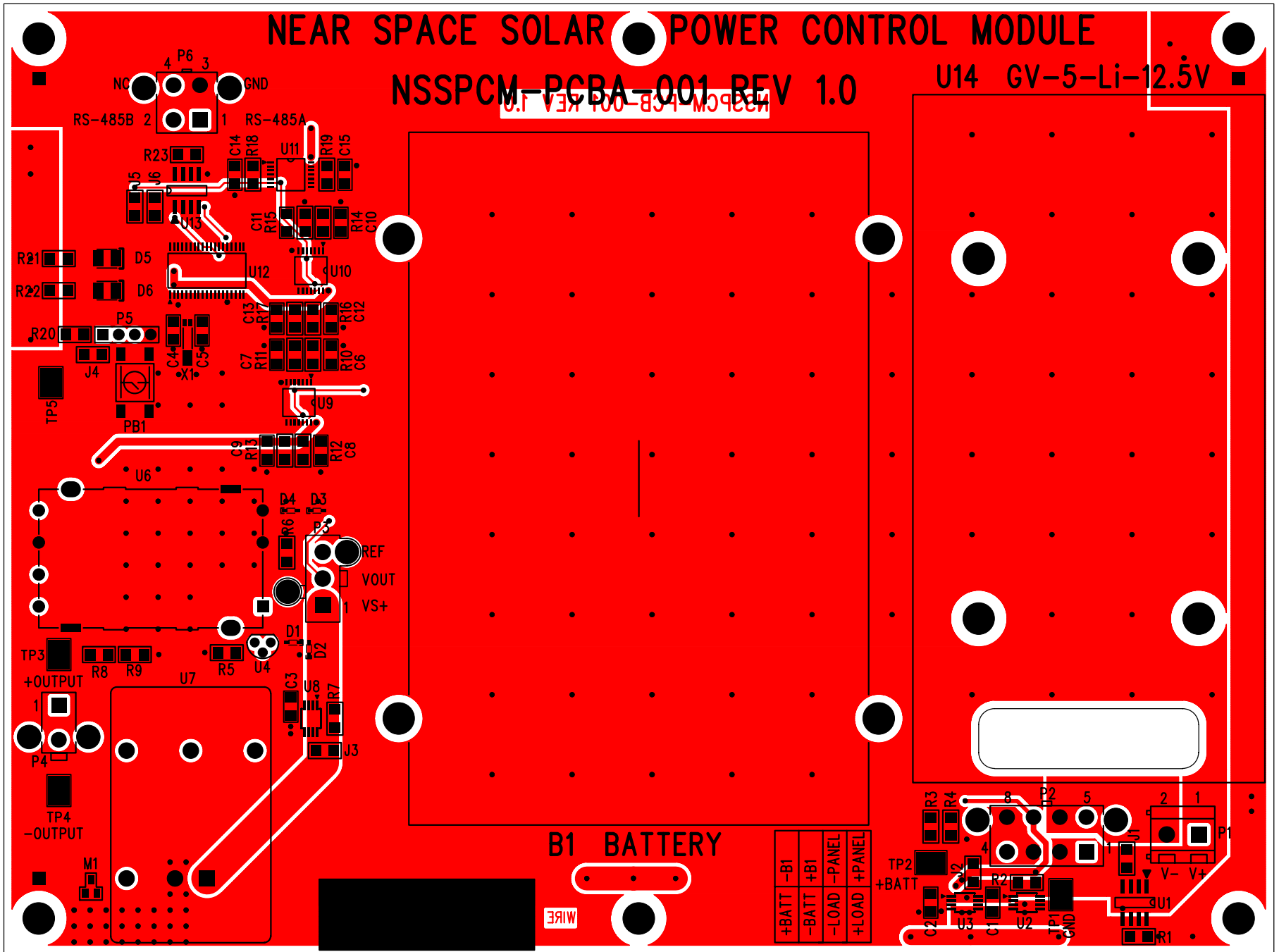
COMP SIDE SILK SCREEN ASSEMBLY DRAWING

PARTS OVER TOP COPPER

NEAR SPACE SOLAR POWER CONTROL MODULE

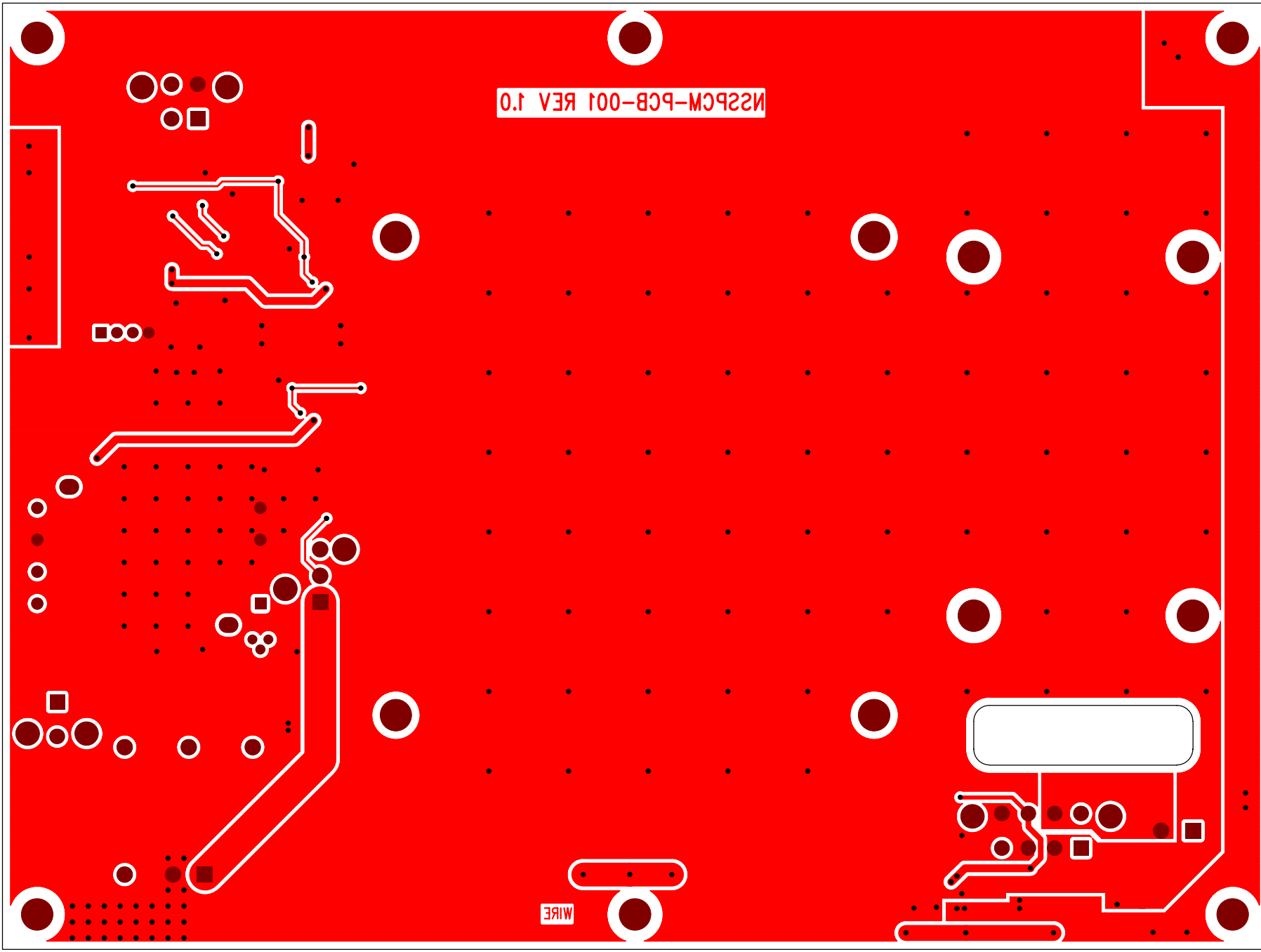
NSSPCM-PCBA-001 REV 1.0

U14 GV-5-Li-12.5V



PARTS OVER BOTTOM COPPER

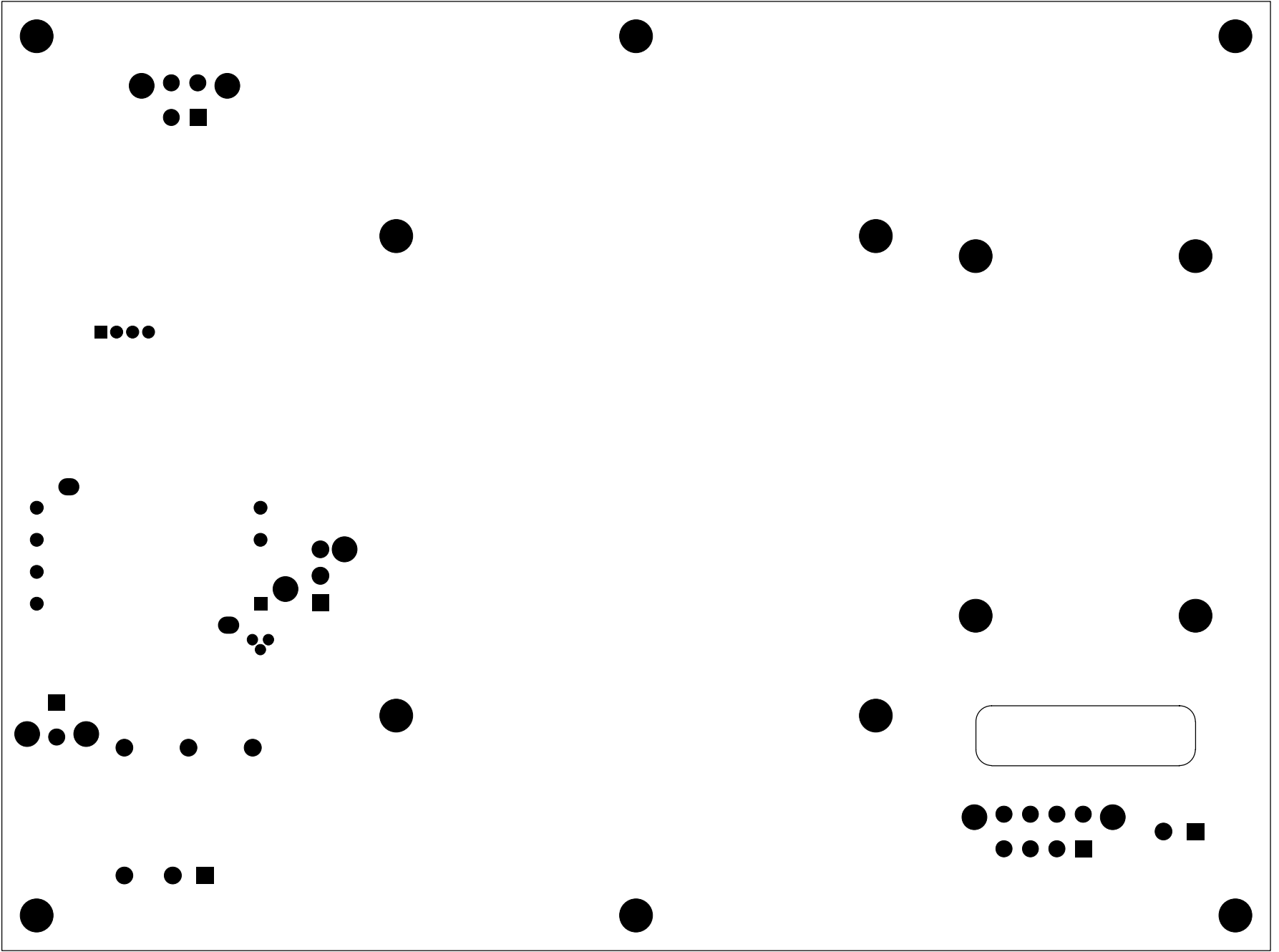
COMP SIDE SILK SCREEN ASSEMBLY DRAWING



N2SPCM-PCB-001 REV. 1.0

WIRE





6

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REVISION RECORD		
LYR	ECO NO.	APPROVE/DATE

D

C

B

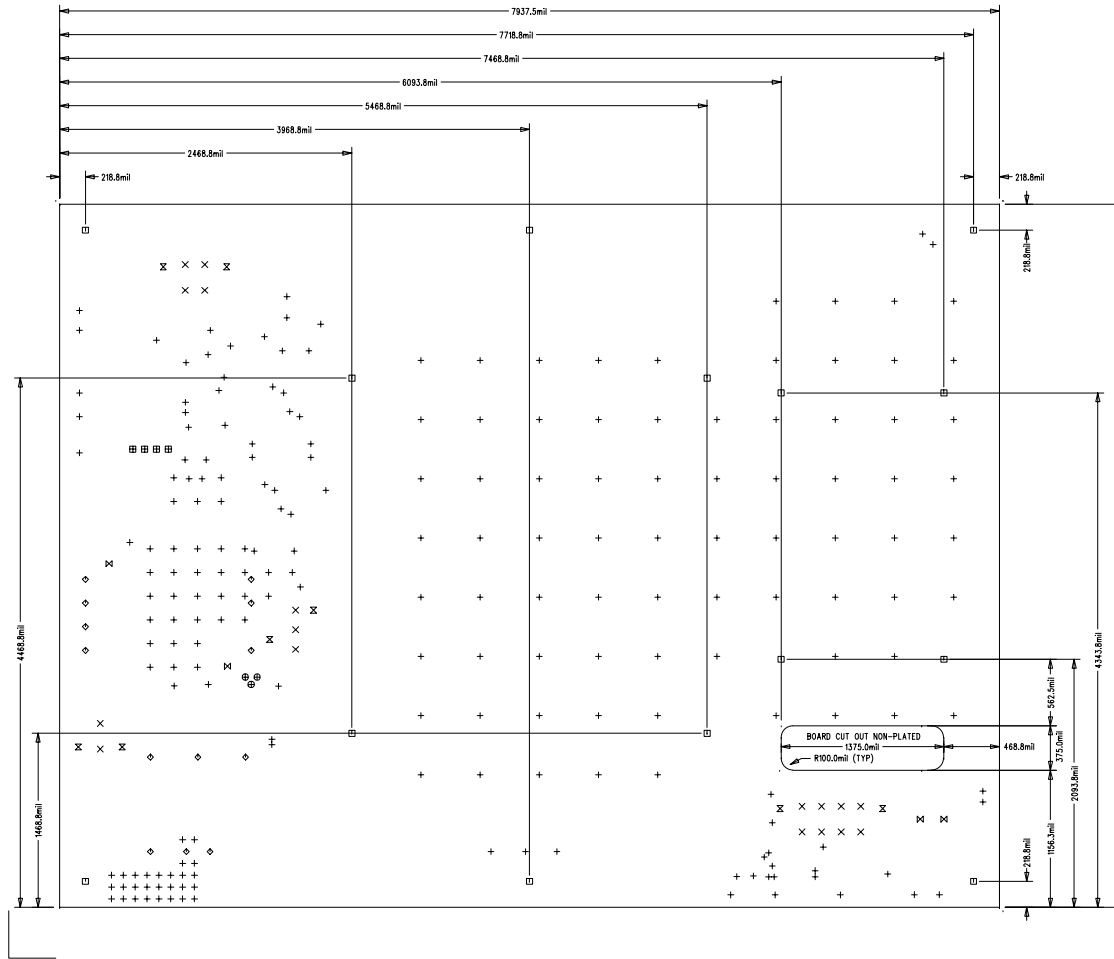
A

D

C

B

A



DRILL/FAB DRAWING

BOARD FABRICATION SPECS

MATERIAL	FR4 OR EQUIV.	<input checked="" type="checkbox"/>	MINIMUM TRACE/SPACE	0.012" (IN)
OTHER			MINIMUM SMD RITCH	0.100" (IN)
SW PADS TOP	240		SW PADS BOT	0
THICKNESS:	0.0625"	<input checked="" type="checkbox"/>	NO. LAYERS	2
	0.03125"	<input type="checkbox"/>		
	0.00375"	<input type="checkbox"/>		
OTHER				
COPPER:	1 oz.	<input checked="" type="checkbox"/>		
	2 oz.	<input type="checkbox"/>		
OTHER				
FINISH / PLATING:	HALF TIN	<input checked="" type="checkbox"/>	ROHS	<input checked="" type="checkbox"/>
	ORMICRON TIN	<input type="checkbox"/>	NON-ROHS	<input type="checkbox"/>
	IMMERSION GOLD	<input type="checkbox"/>		
	IMMERSION SILVER	<input type="checkbox"/>		
	2 GOLD FINGER	<input type="checkbox"/>		
OTHER				
SOLDERMASK:	NONE	<input type="checkbox"/>		
	TOP	<input checked="" type="checkbox"/>		
	BOTTOM	<input checked="" type="checkbox"/>		
	PHOTO IMAGEABLE	<input checked="" type="checkbox"/>		
	SMDIC	<input checked="" type="checkbox"/>		
OTHER				
COLOR: GREEN				
COLOR: OTHER				
SILSCREEN:	NONE	<input type="checkbox"/>		
	TOP	<input checked="" type="checkbox"/>		
	BOTTOM	<input checked="" type="checkbox"/>		
COLOR: WHITE				
COLOR: OTHER				

DIMENSIONS AND DRILL SIZES:
+/- 0.005" UNLESS OTHERWISE SPECIFIED

SIZE	QTY	SYM	PLATED	TOL
15	210	+	YES	+5.0/-15.0
58	17	X	YES	+/-5.0
161	14	□	YES	+/-5.0
50	13	◇	YES	+/-5.0
118.11	8	⊗	YES	+/-5.0
68	4	⊗	YES	+/-5.0
45	4	⊕	YES	+/-5.0
35	3	⊕	YES	+/-5.0

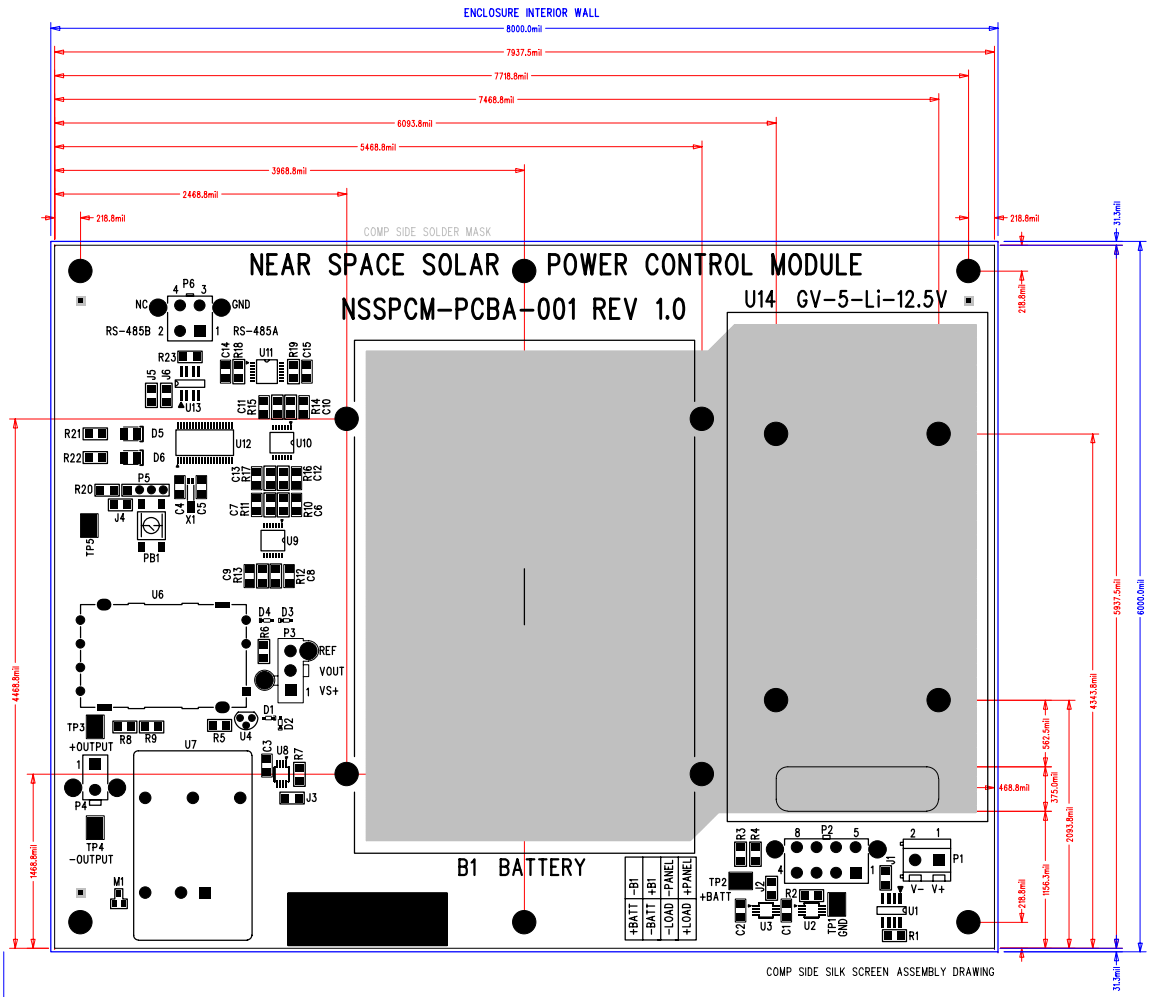
COMPANY: ROCHESTER INSTITUTE OF TECHNOLOGY

TITLE: NEAR SPACE SOLAR POWER CONDITIONING MODULE

DRAWN: ELMGROVE TECH	DATED: 03/23/2012	CODE: NA	SIZE: A2	DRAWING NO: NSSPCM-PCB-001	REV: 1.0
CHECKED: RIT	DATED: 03/26/2012				
QUALITY CONTROL: RIT	DATED: 03/26/2012				
RELEASED: RIT	DATED: 03/26/2012	SCALE: 1:1		SHEET: 1 OF 1	

6 | 5 | 4 | 3 | 2 | 1

REVISION RECORD		
LYR	ECO NO:	APPROVED/DATE



DRILL/FAB DRAWING

BOARD FABRICATION SPECS

MATERIAL:	FR4 OR EQUIV.	<input checked="" type="checkbox"/>	MINIMUM TRACE/SPACE
OTHER:			0.012 (IN)
			0.010 (IN)
SW PADS TOP:	SW PADS BOT:	<input type="checkbox"/>	MINIMUM SMD PITCH
240	0		0.5 MM
THICKNESS:			
0.0025"	<input checked="" type="checkbox"/>	NO. LAYERS	
0.0050"	<input type="checkbox"/>		
0.0075"	<input type="checkbox"/>		2
OTHER:			
COPPER:			
1 oz:	<input checked="" type="checkbox"/>		
2 oz:	<input type="checkbox"/>		
OTHER:			
FINISH / PLATING:			
HALF TIN:	<input checked="" type="checkbox"/>	ROHS	
ORGANIC TIN:	<input type="checkbox"/>		
IMMERSION GOLD:	<input type="checkbox"/>		
IMMERSION SILVER:	<input checked="" type="checkbox"/>	NON-ROHS	
# GOLD FINGERS:	<input type="checkbox"/>		
OTHER:			
SOLDERMASK:			
NONE:	<input type="checkbox"/>		
TOP:	<input checked="" type="checkbox"/>		
BOTTOM:	<input checked="" type="checkbox"/>		
PHOTO IMAGEABLE:	<input checked="" type="checkbox"/>		
SMD:	<input checked="" type="checkbox"/>		
OTHER:	<input type="checkbox"/>		
COLOR: GREEN:	<input type="checkbox"/>		
COLOR: OTHER:	<input type="checkbox"/>		
SLEESING:			
NONE:	<input type="checkbox"/>		
TOP:	<input checked="" type="checkbox"/>		
BOTTOM:	<input checked="" type="checkbox"/>		
COLOR: WHITE:	<input type="checkbox"/>		
COLOR: OTHER:	<input type="checkbox"/>		
DIMENSIONS AND DRILL SIZES:			
+/- 0.005" UNLESS OTHERWISE SPECIFIED			

COMP SIDE SILK SCREEN ASSEMBLY DRAWING

DRAWN: ELMGROVE TECH		DATED: 03/23/2012		COMPANY: ROCHESTER INSTITUTE OF TECHNOLOGY	
CHECKED: RIT		DATED: 03/26/2012		TITLE: NEAR SPACE SOLAR POWER CONDITIONING MODULE	
QUALITY CONTROL: RIT		DATED: 03/26/2012		CODE: NA	SIZE: A2
RELEASED: RIT		DATED: 03/26/2012		DRAWING NO: NSSPCM-PCB-001	REV: 1.0
SCALE: 1:1				SHEET: 1 OF 1	