

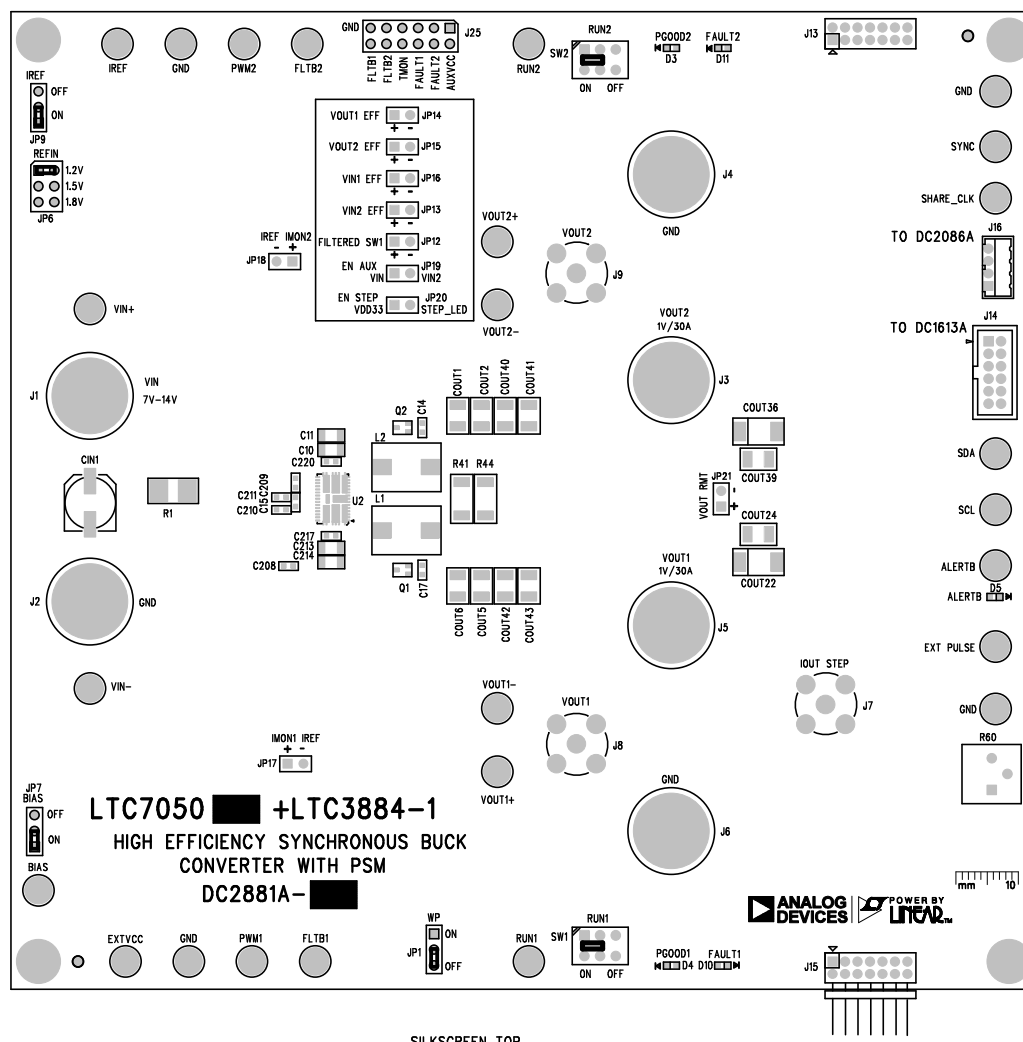


MOTTON JIKSCREEN BOTTOM

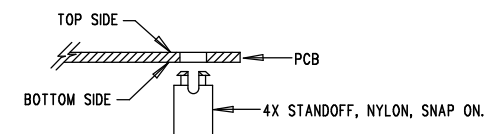
APPROVALS		 	
PCB DES.	LT	www.analog.com	
APP ENG.	YT	FOR ADI CUSTOMER USE ONLY	
		TITLE: BOTTOM ASSEMBLY DRAWING	
		HIGH EFFICIENCY SYNCHRONOUS BUCK CONVERTER WITH PSM	
		SIZE	IC NO. LTC7050X + LTC3884-1
		N/A	DC2881A
		REV	3
SCALE = NONE		FILENAME: DC2881A-3.PCB	
		SHT 2 of 2	

REVISION HISTORY				
ECO	REV	DESCRIPTION	APP. ENG.	DATE
-	3	PRODUCTION	YT	06-14-21



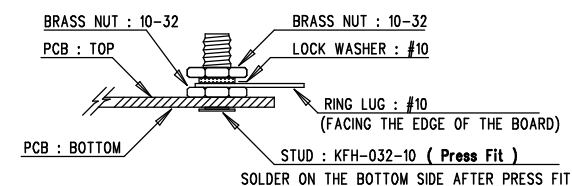
# NOTES: UNLESS OTHERWISE SPECIFIED



1. WORKMANSHIP SHALL BE IN ACCORDANCE WITH IPC-A-610.
2. ASSEMBLY PROCESS SHALL INCLUDE: REFLOW SOLDER TOP SIDE SMD. MAXIMUM SOLDER TEMPERATURE IS 240 DEGREES CELSIUS.
3. PARTS TO OMIT WILL BE SPECIFIED ON THE BILL OF MATERIALS. LOCATIONS OF OMITTED PARTS SHALL BE FREE OF SOLDER. MASK THE SOLDER STENCIL WHERE SMT PARTS ARE OMITTED.
4. INSTALL SHUNTS AS SHOWN ON ASSY DRAWING.
5. DEPANELIZE BOARDS AFTER ASSEMBLY AND ROUTE-OUT THE BREAKOUT TABS ON FOUR SIDES OF THE BOARD EDGE.
6. DO NOT APPLY ANY KIND OF ASSEMBLY STAMP OR QA STAMP TO ANY BOARD.
7. INSTALL 4 STANDOFFS AS SHOWN BELOW:

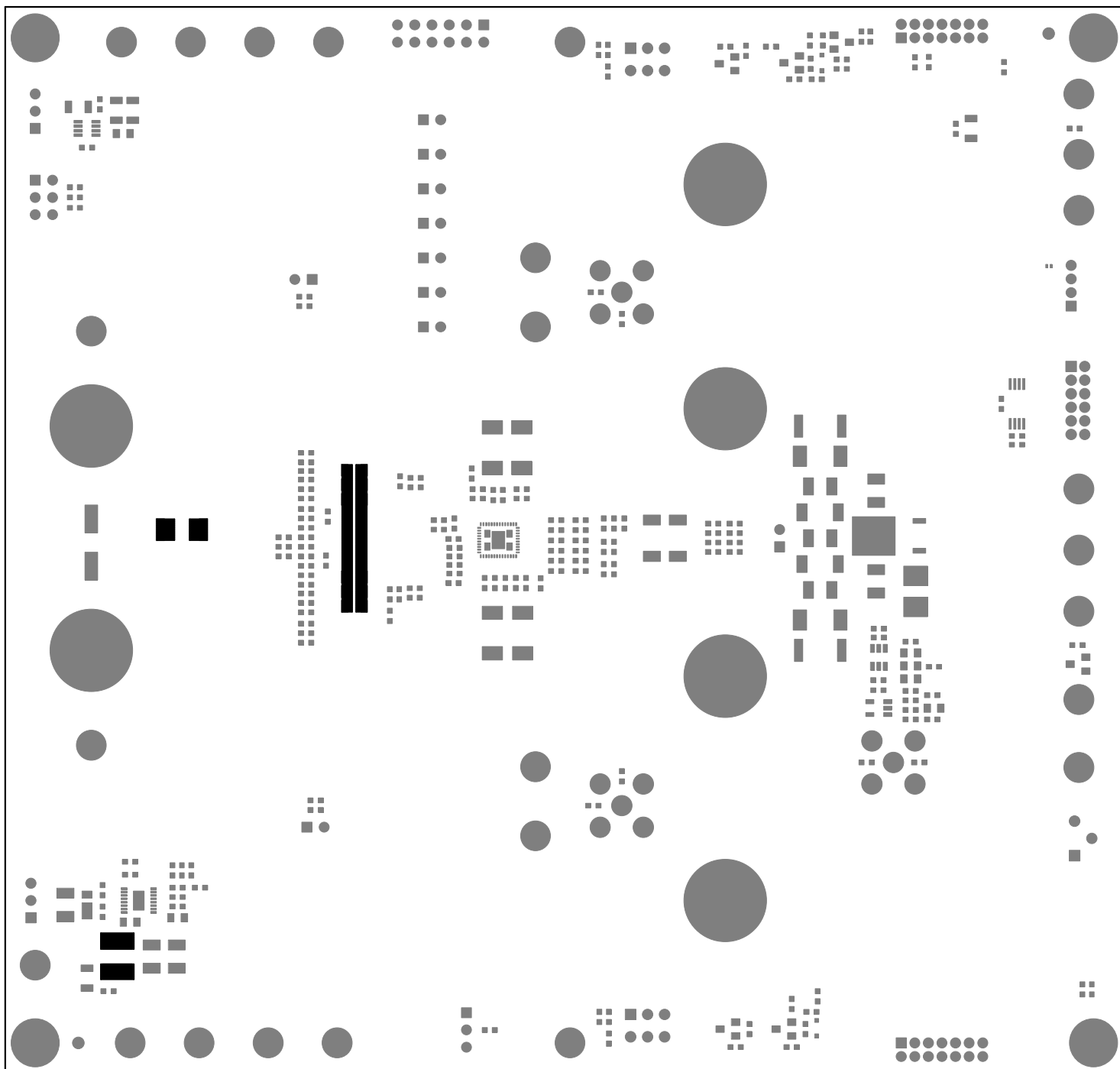


8. SEE BILL OF MATERIALS TO MARK THE APPROPRIATE ASSEMBLY TYPE WITH BLACK PERMANENT MARKER.

VERSION	U2
-A	LTC7050
-B	LTC7050-1
-C	LTC7050P

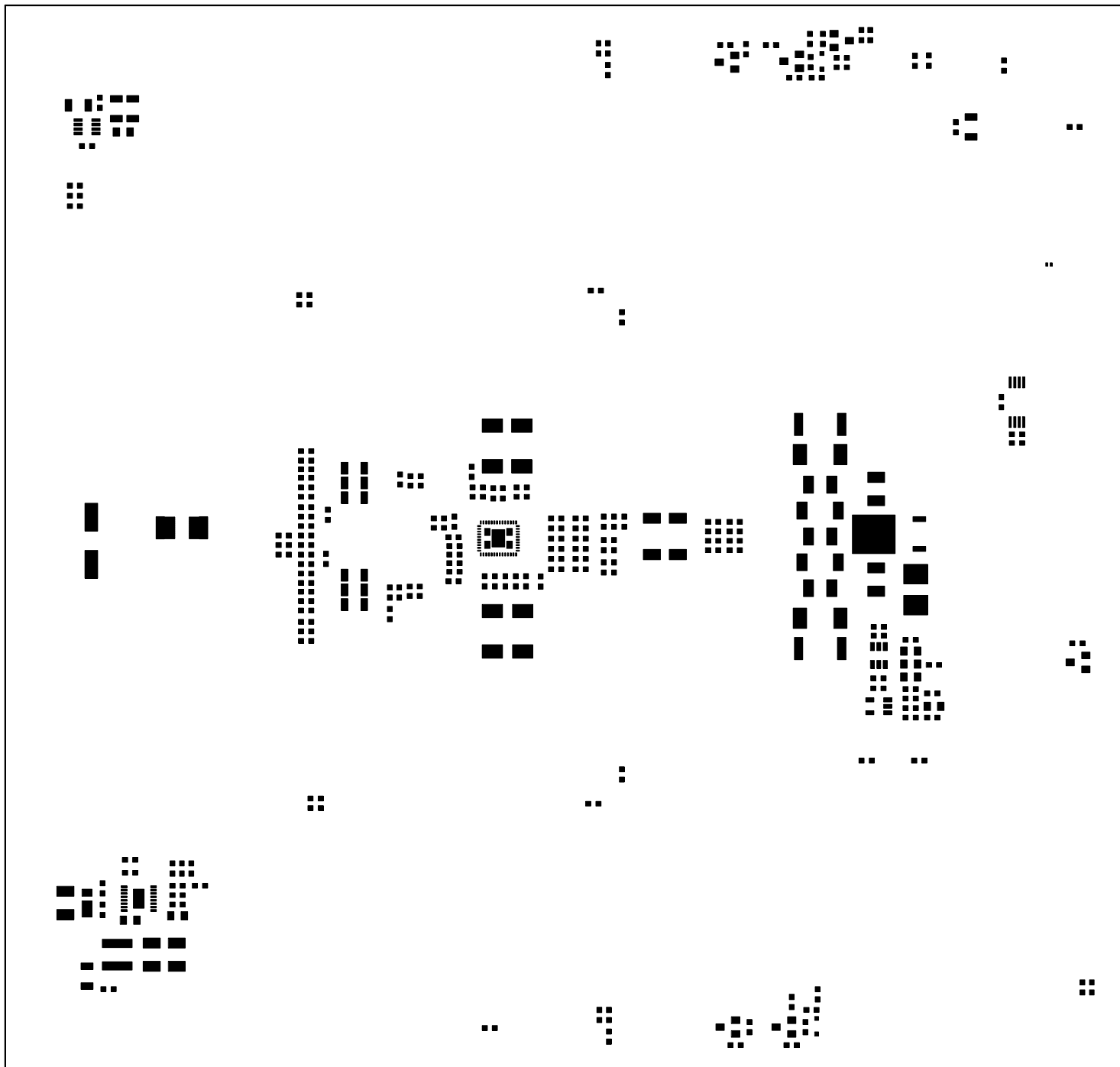


APPROVALS		 <b>ANALOG DEVICES</b>	 <b>POWER BY LINEAR™</b>	<a href="http://www.analog.com">www.analog.com</a>	
PCB DES.	LT			FOR ADI CUSTOMER USE ONLY	
APP ENG.	YT			TITLE: TOP ASSEMBLY DRAWING	
				HIGH EFFICIENCY SYNCHRONOUS BUCK CONVERTER WITH PSM	
				SIZE	IC NO. LTC7050X + LTC3884-1
		N/A	DC2881A	3	
SCALE = NONE		FILENAME: DC2881A-3.PCB		SHT 1 OF 2	



ANALOG DEVICES  
DC2881A-3 DATE: 06-14-21

SOLDERMASK BOTTOM



ANALOG DEVICES

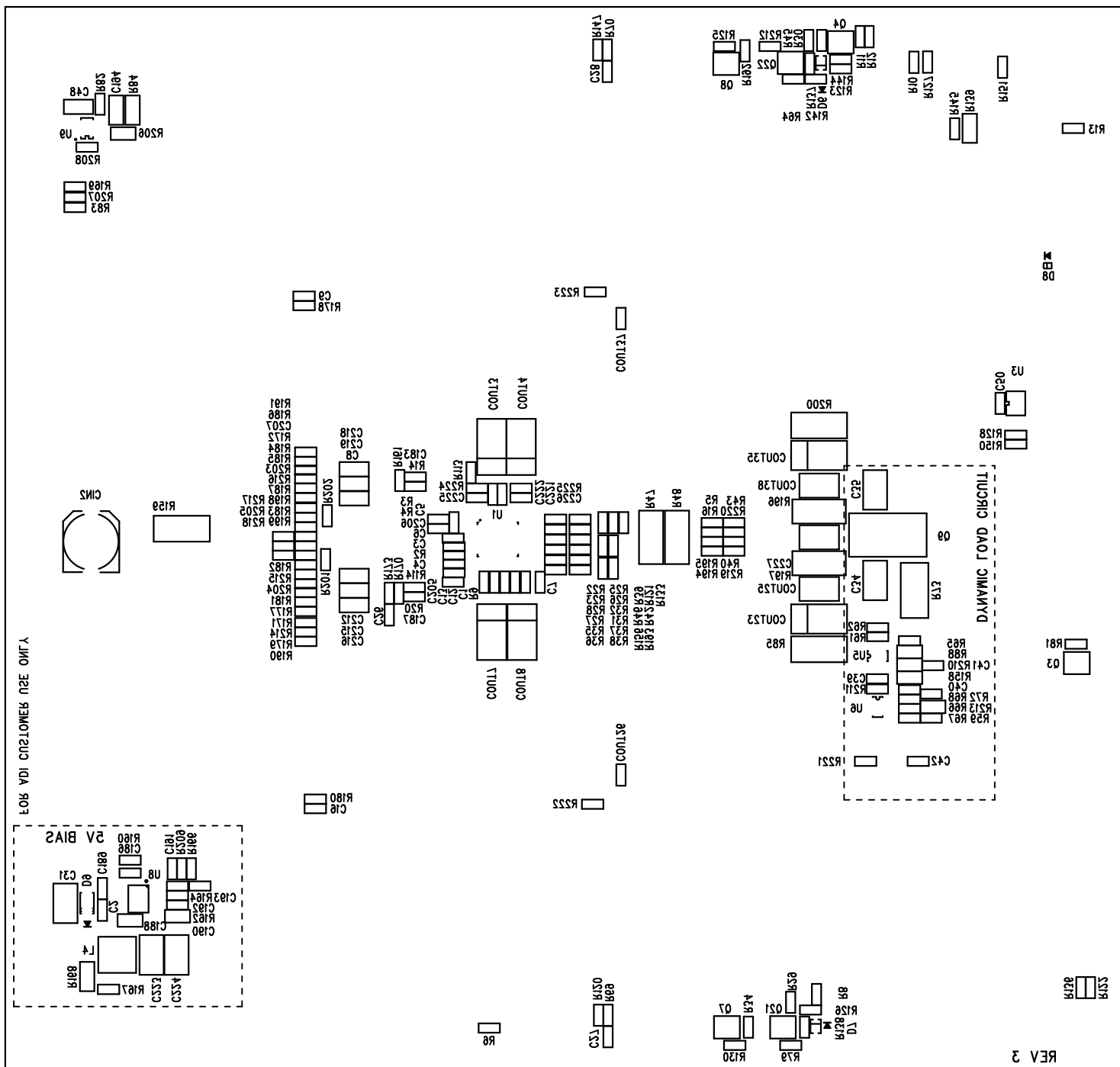
DC2881A-3 DATE: 06-14-21

PASTEMASK BOTTOM

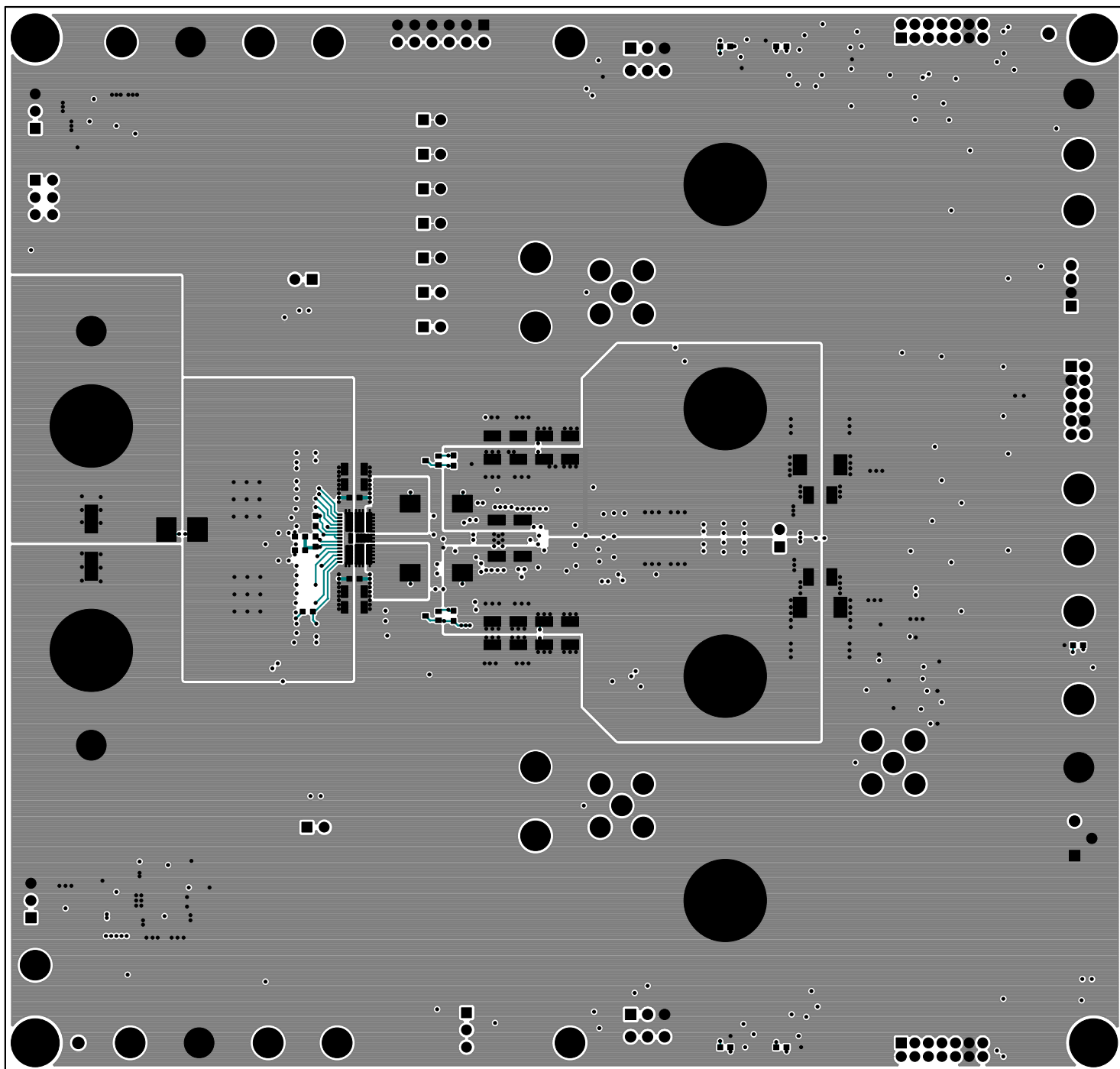
# ANALOG DEVICES

DC2881A-3 DATE: 06-14-21

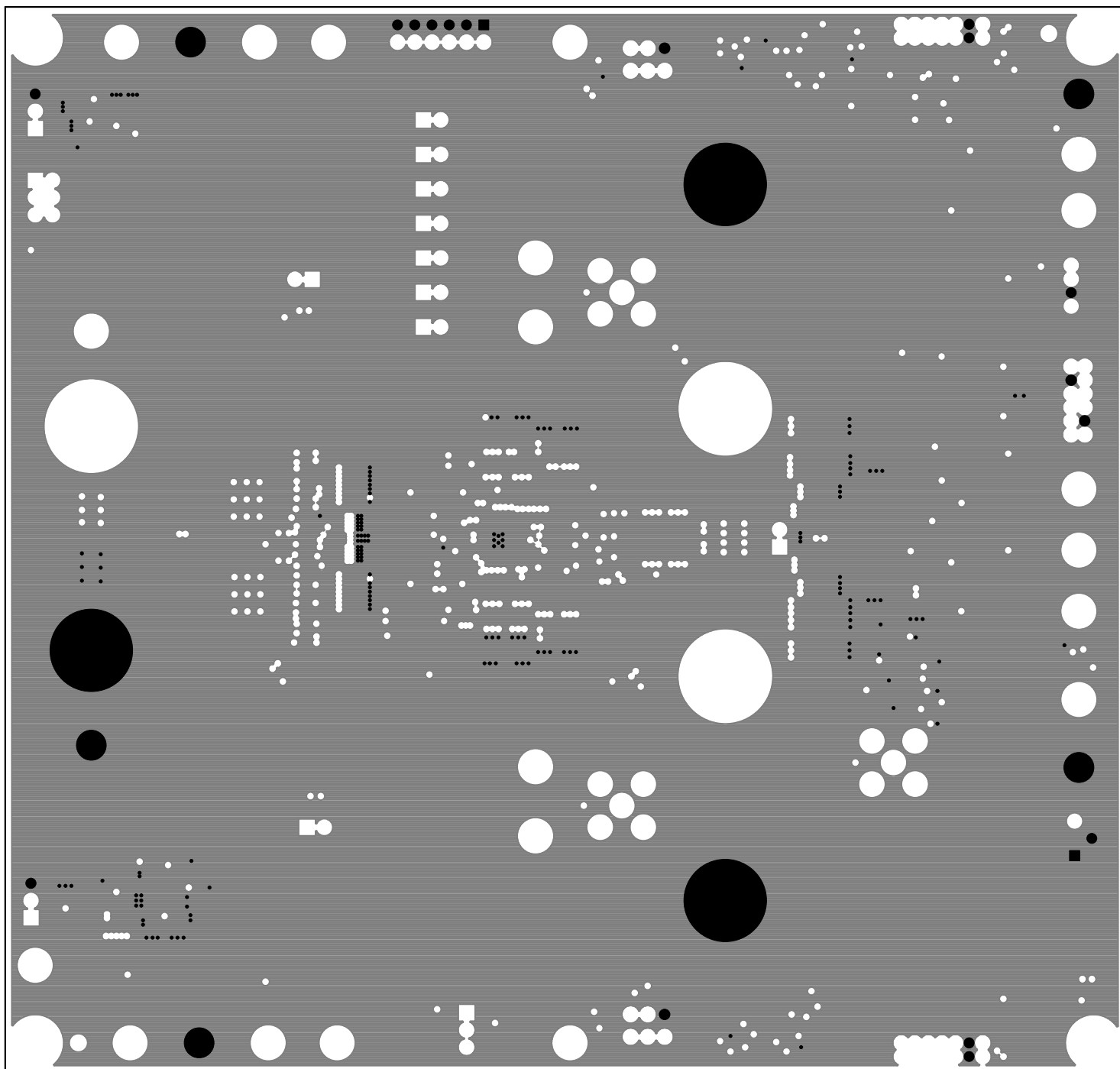
SILKSCREEN BOTTOM







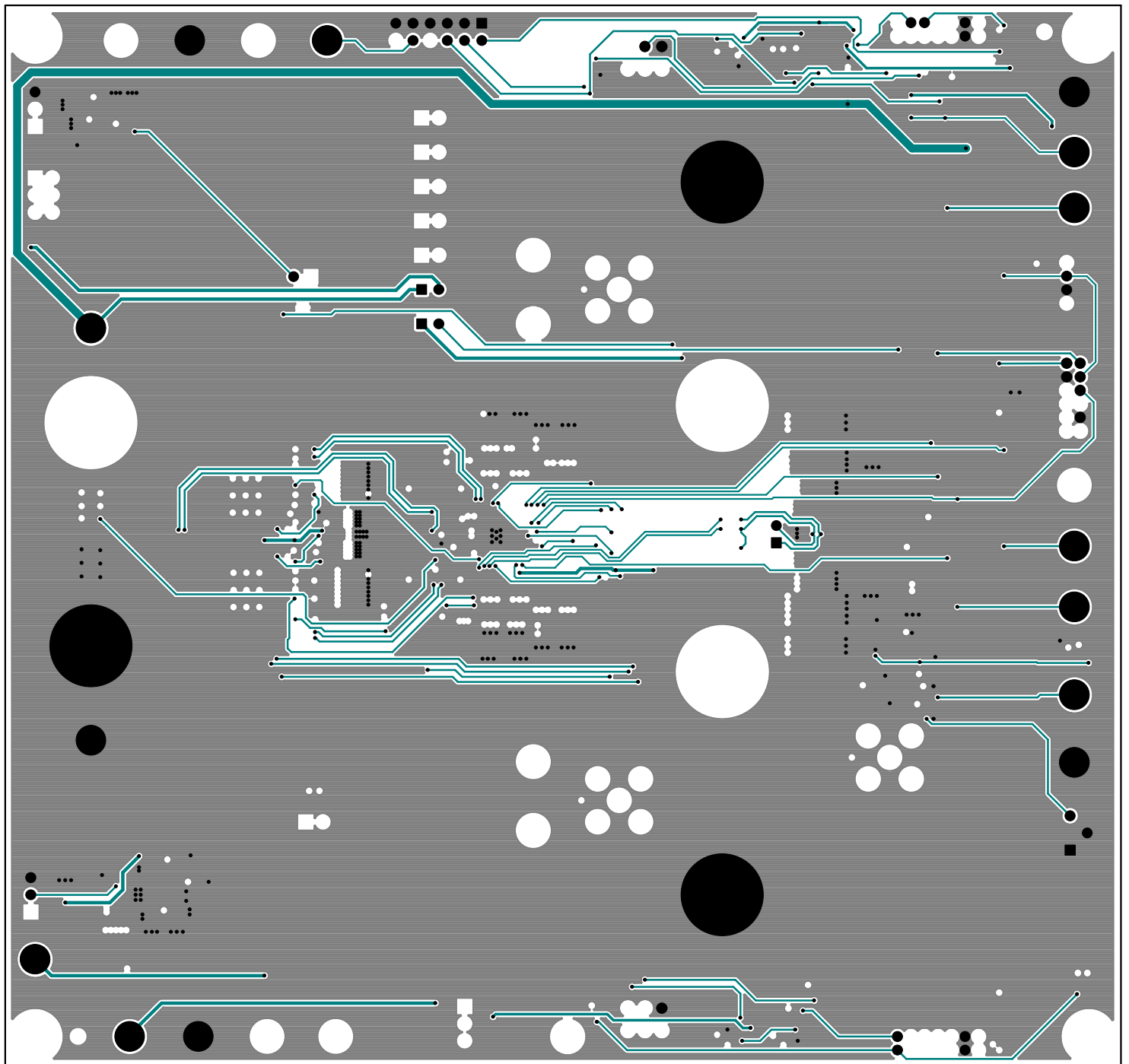
ANALOG DEVICES  
DC2881A-3    DATE: 06-14-21    LAYER 1 - TOP SIDE



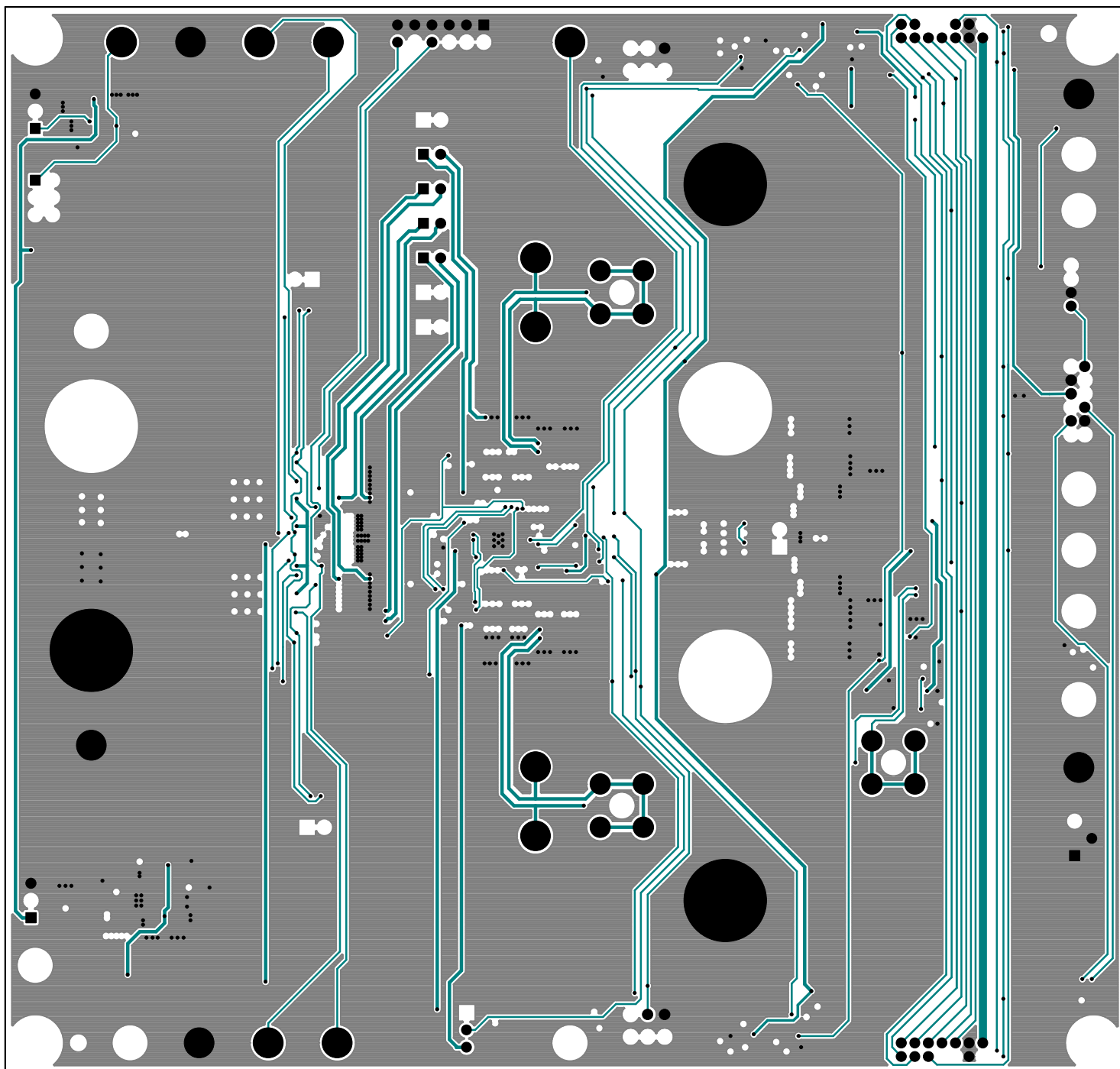
ANALOG DEVICES  
DC2881A-3    DATE: 06-14-21

LAYER 2 - GND PLANE

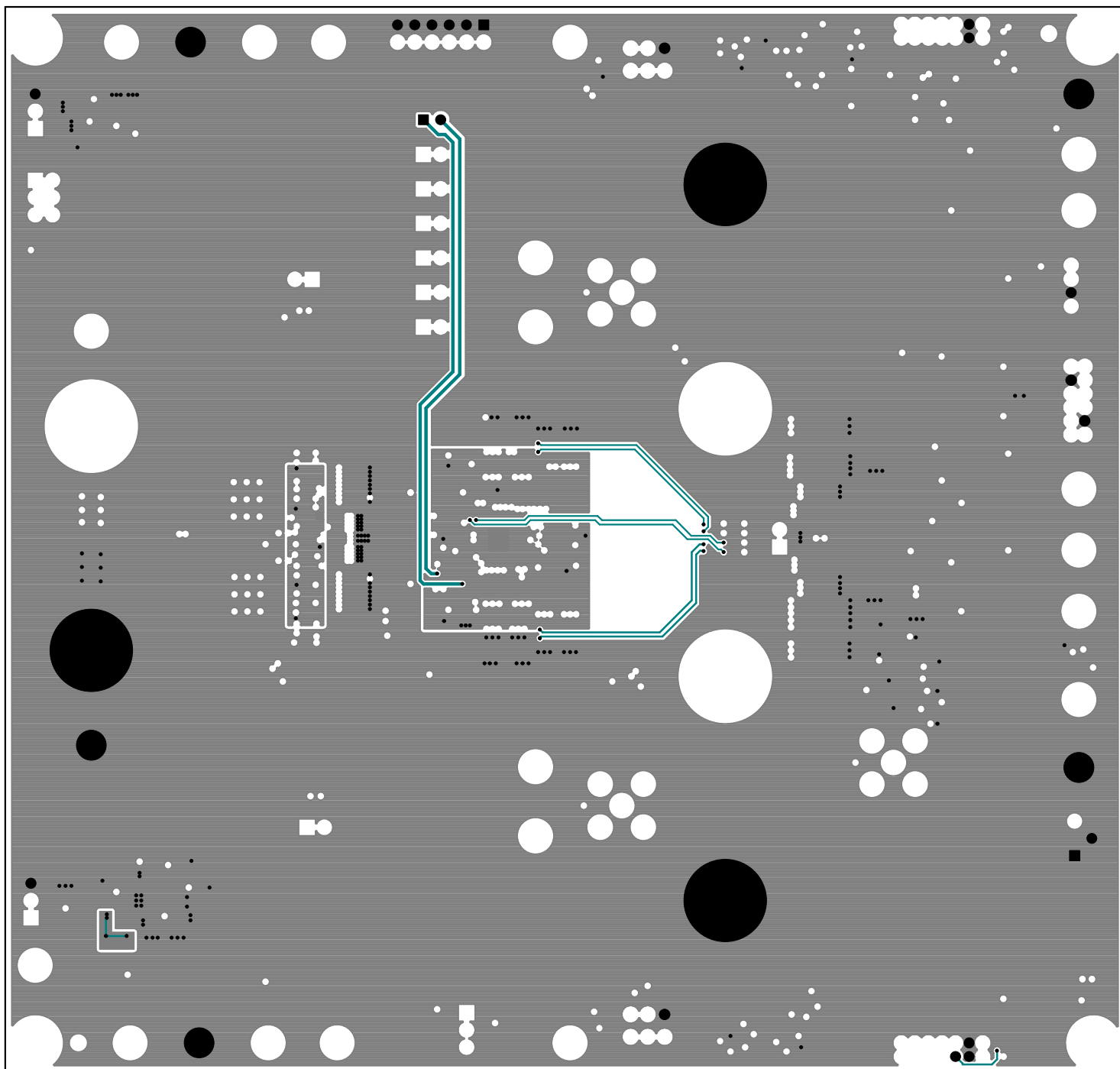




ANALOG DEVICES  
DC2881A-3 DATE: 06-14-21 LAYER 3 - SIGNALS



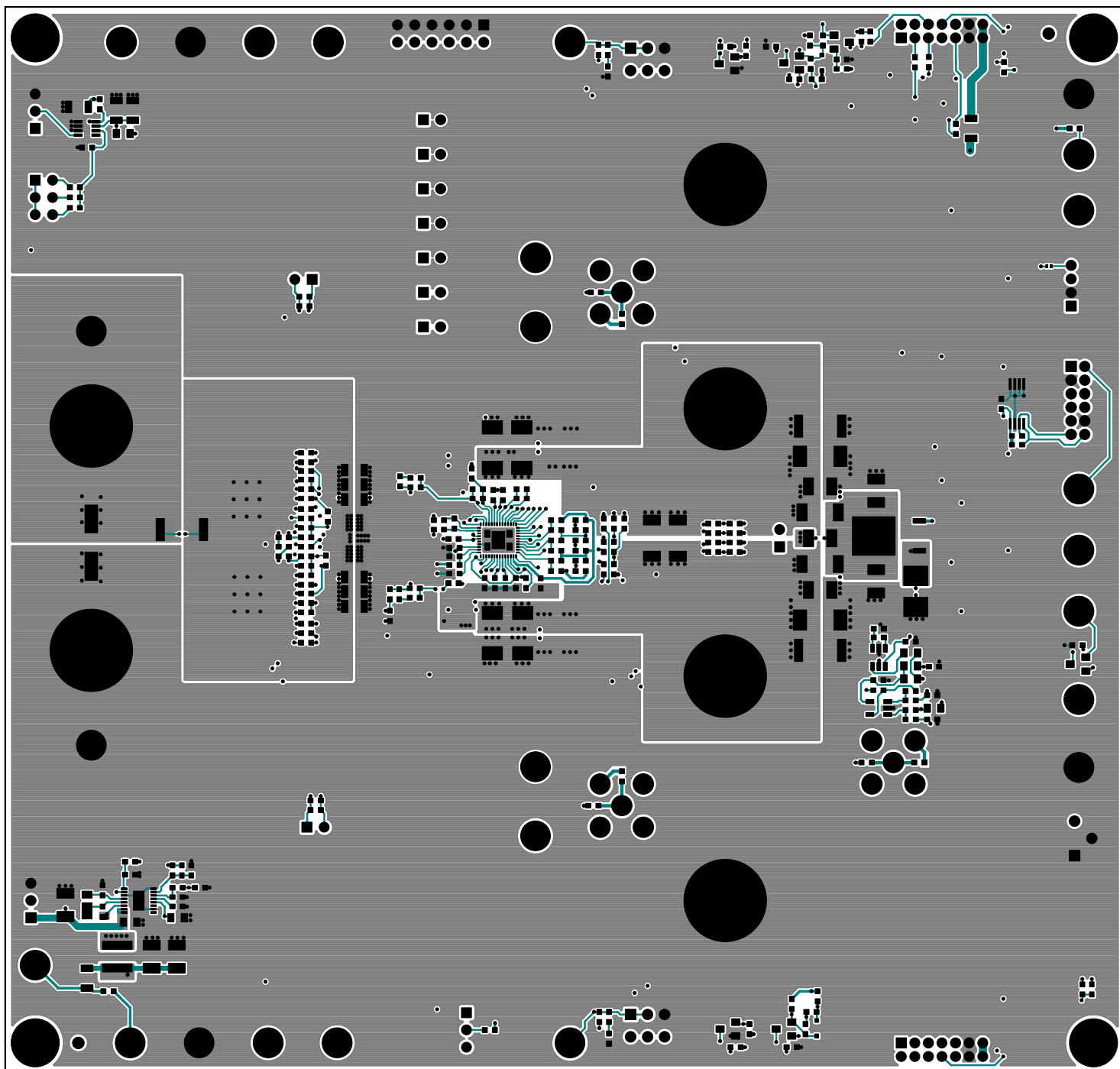
ANALOG DEVICES  
DC2881A-3 DATE: 06-14-21 LAYER 4 - SIGNALS



ANALOG DEVICES

DC2881A-3 DATE: 06-14-21

LAYER 5 - GND PLANE

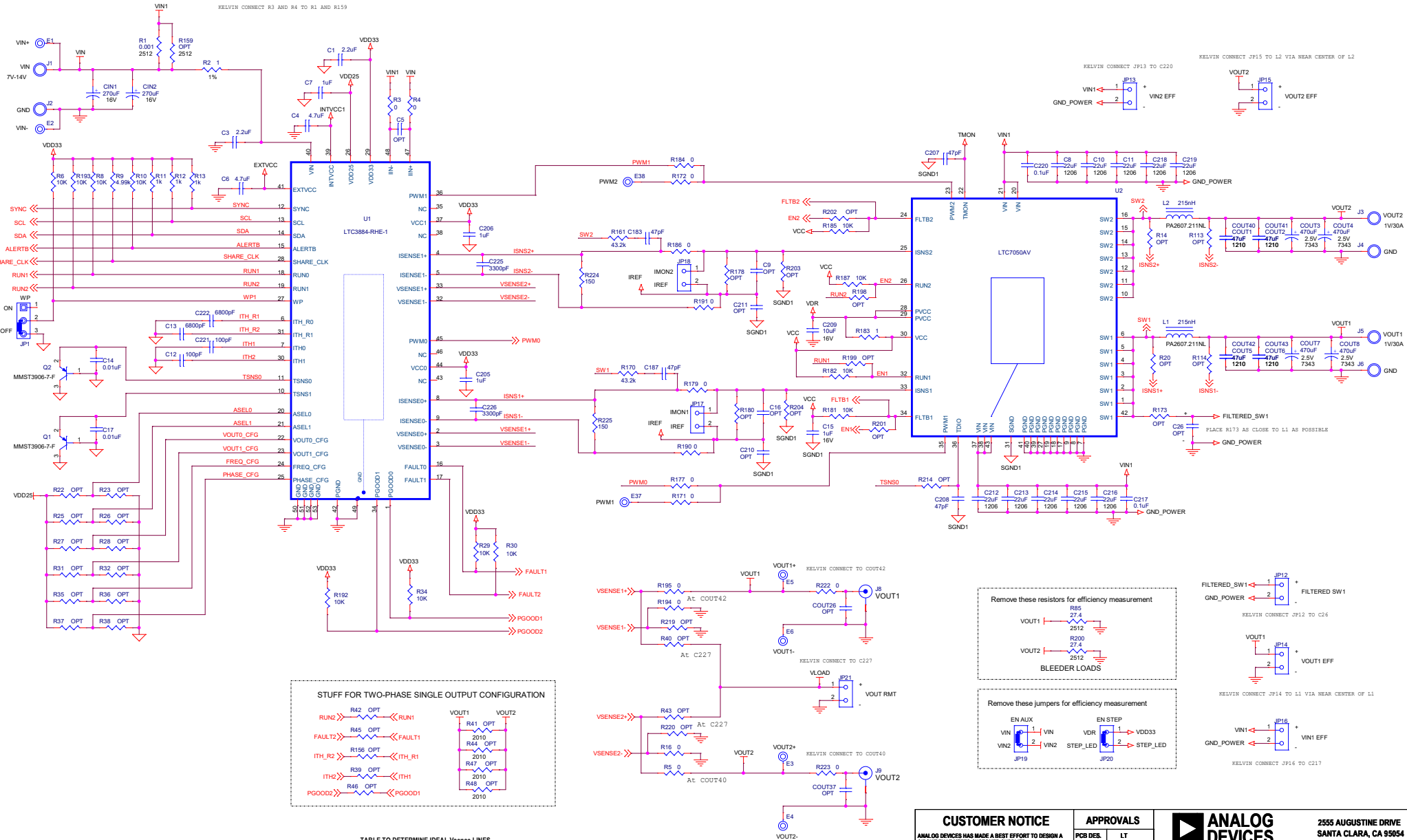


ANALOG DEVICES

DC2881A-3 DATE: 06-14-21

LAYER 6 - BOTTOM SIDE

REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	3	PRODUCTION	YT	12-20-21



NOTES:

1. L1 and L2 planes can accommodate FP0707R1-R110-R.

# of Outputs	# of Phases per Output	Load Step on	R194, R195	R5, R16	R40, R219	R43, R220
2	1	None	0 Ohms	0 Ohms	OPT	OPT
2	1	VOUT1	0 Ohms	0 Ohms	0 Ohms	OPT
2	1	VOUT2	0 Ohms	OPT	OPT	0 Ohms
1	2	Any	OPT	OPT	0 Ohms	0 Ohms

VERSION	U2
- A	LTC7050
- B	LTC7050-1
- C	LTC7050P

### CUSTOMER NOTICE

ANALOG DEVICES HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS, HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT ANALOG DEVICES APPLICATIONS ENGINEERING FOR ASSISTANCE.

THIS CIRCUIT IS PROPRIETARY TO ANALOG DEVICES AND SUPPLIED FOR USE WITH ANALOG DEVICES PARTS.

### APPROVALS

PCB DES.	LT
APP ENG.	YT

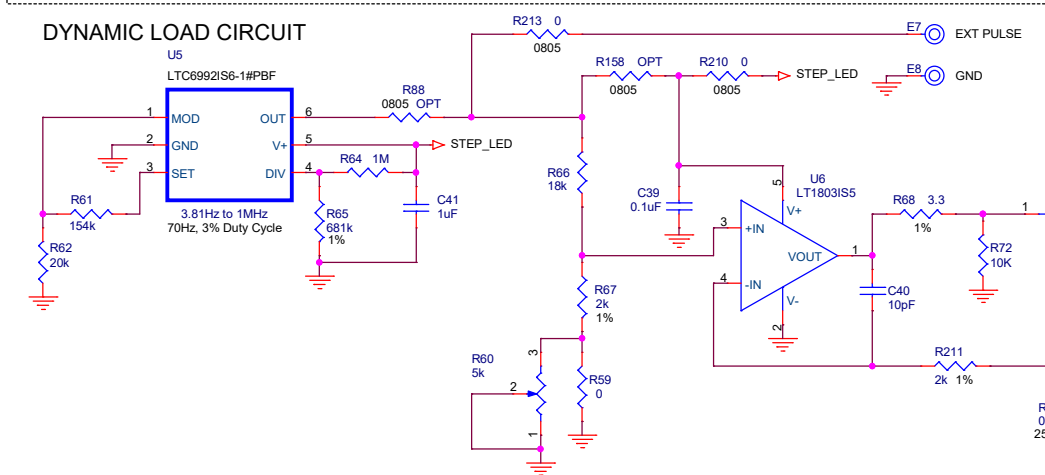
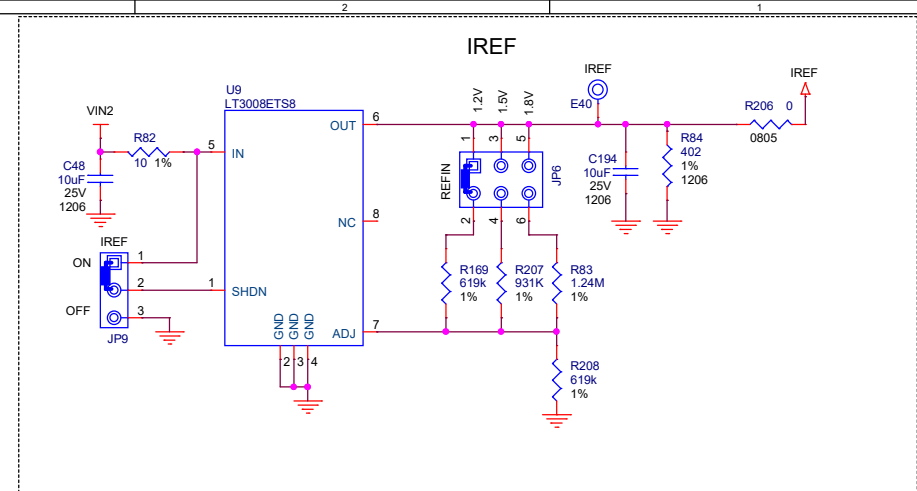
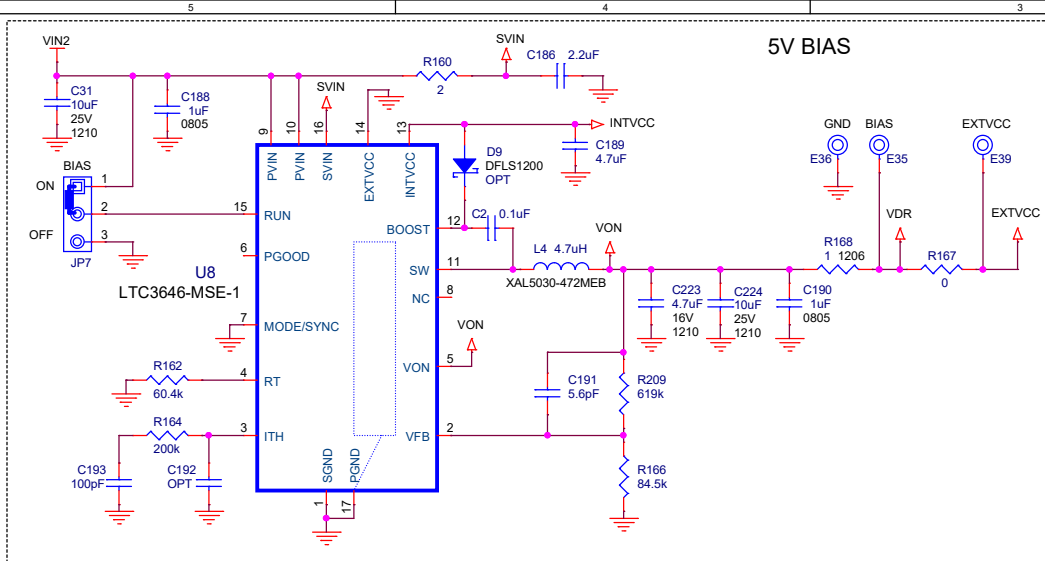
**ANALOG DEVICES**  
AHEAD OF WHAT'S POSSIBLE™

2555 AUGUSTINE DRIVE  
SANTA CLARA, CA 95054  
www.analog.com

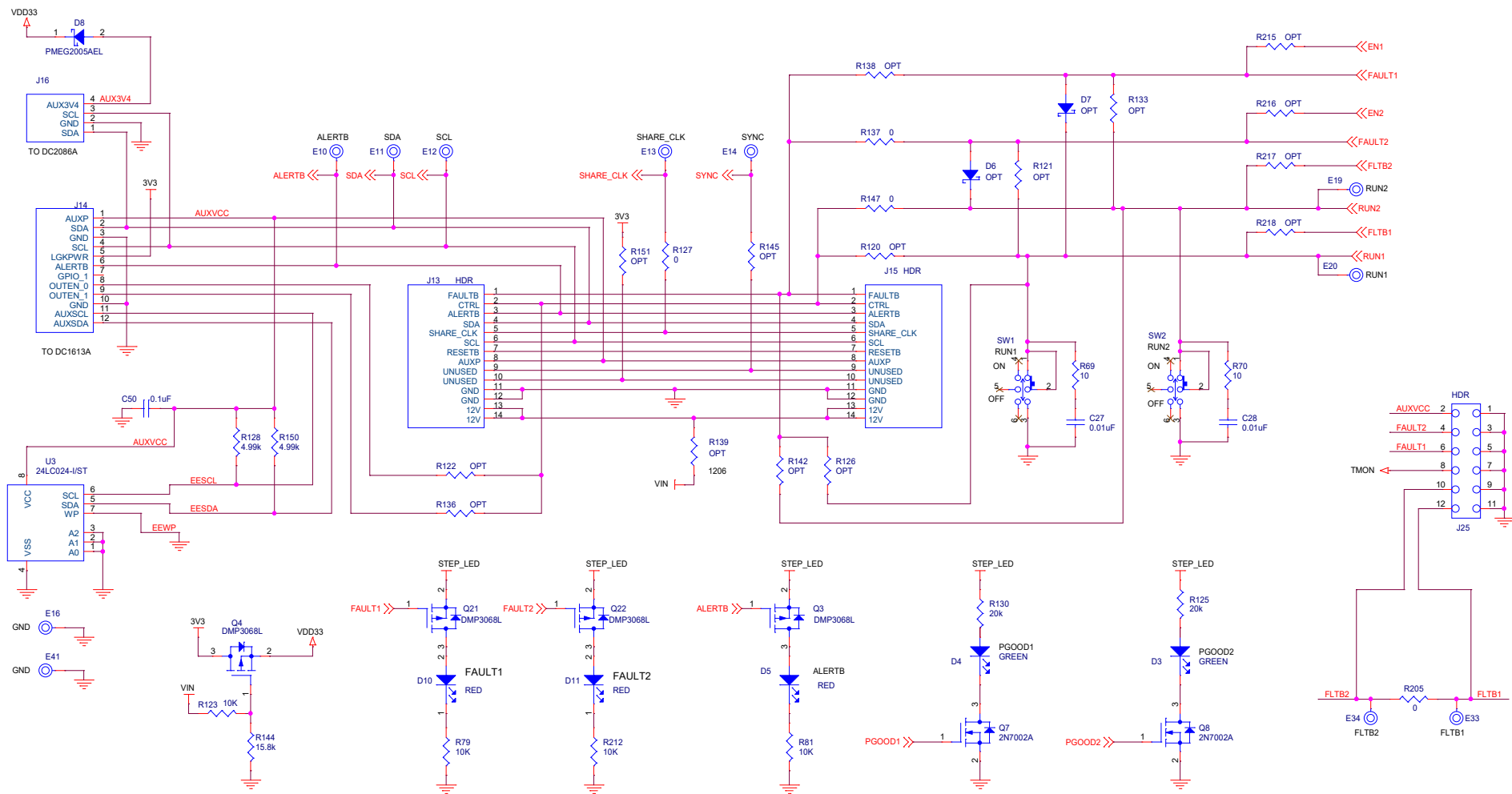
### TITLE: SCHEMATIC

**HIGH EFFICIENCY SYNCHRONOUS BUCK CONVERTER WITH PSM**

IC NO.	LTC7050X / LTC3884RHE-1	SCHEMATIC NO. AND REVISION: 710-DC2881A(A,B,C) REV03
SKU NO.	DC2881A(A,B,C)	
SIZE:	N/A	DATE: Monday, December 20, 2021
		SHEET 1 OF 3



ALL PARTS ON THIS PAGE ARE FOR DEMO BOARD ONLY, NOT NEEDED IN CUSTOMER DESIGN



#### HARDWARE

STNCL1	TOOL, STENCIL, 700-DC2881A	REV03	MP25	STANDOFF,NYLON, SNAP-ON, 0.625 (5/8"), 15.9mm
PCB1	PCB, DC2881A	REV03	MP26	STANDOFF,NYLON, SNAP-ON, 0.625 (5/8"), 15.9mm
LB1	LABEL		MP27	STANDOFF,NYLON, SNAP-ON, 0.625 (5/8"), 15.9mm
			MP28	STANDOFF,NYLON, SNAP-ON, 0.625 (5/8"), 15.9mm

<Variant Name>

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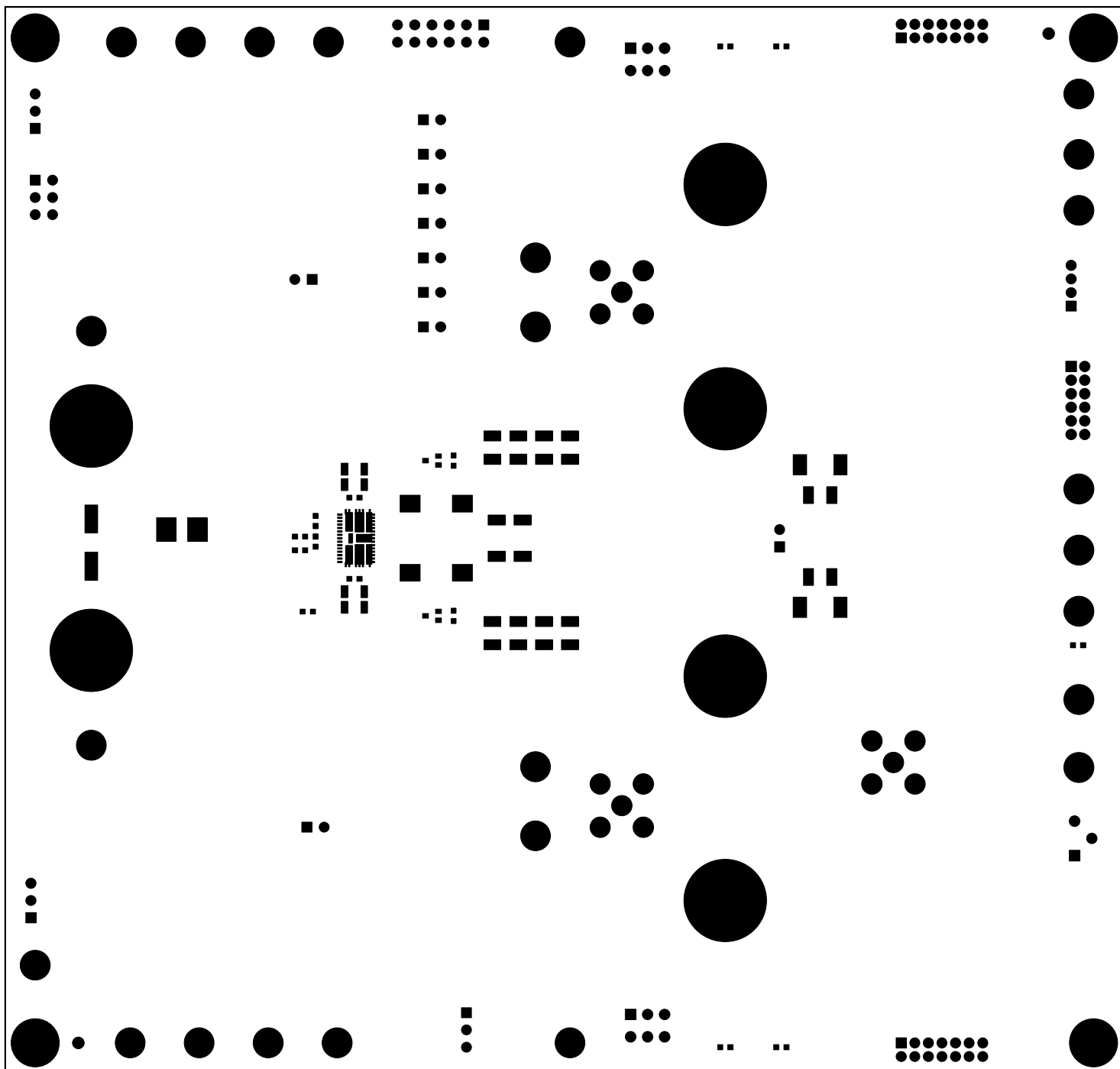
#### APPROVALS

PCB DES.	LT
APP ENG.	Y.T



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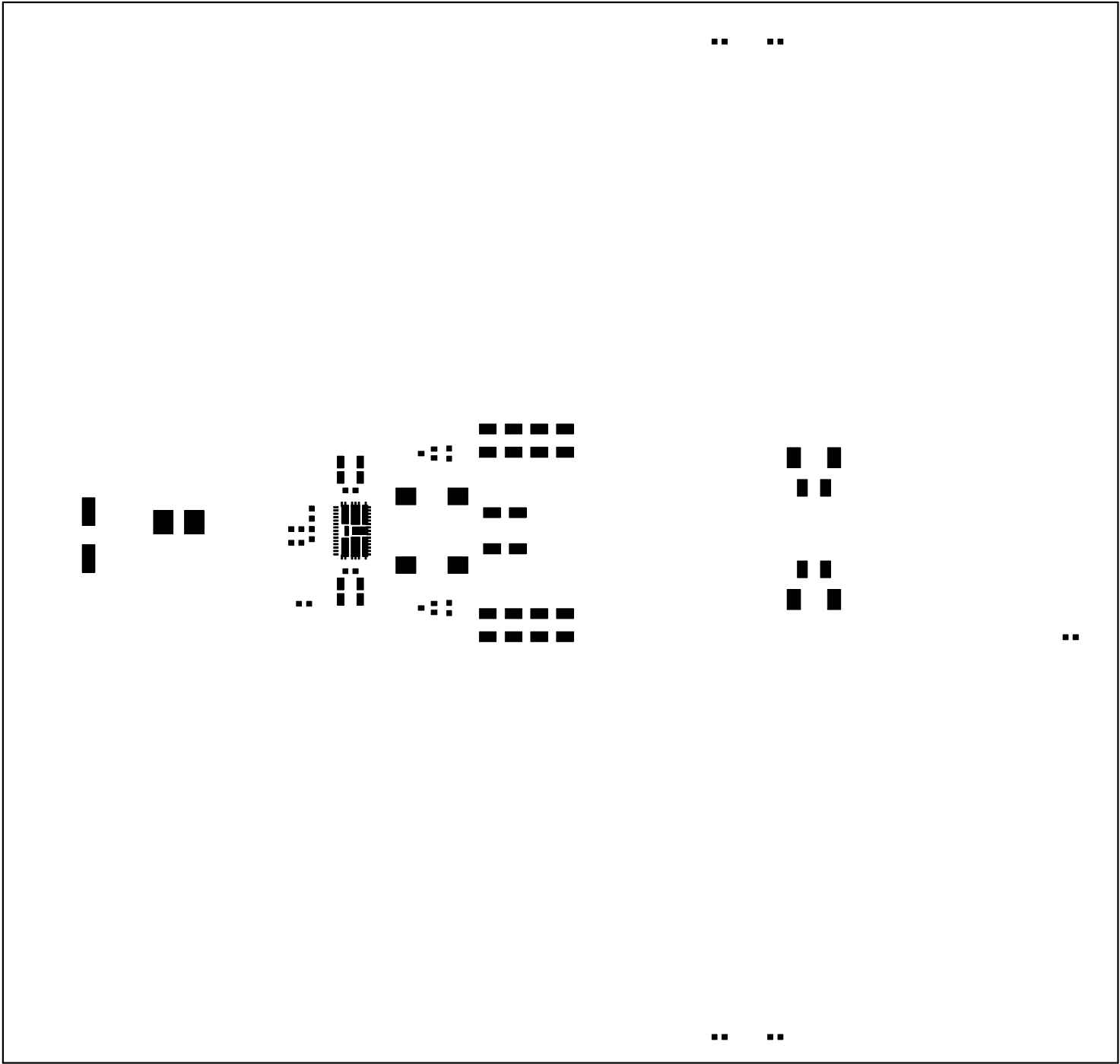
TITLE: SCHEMATIC	
HIGH EFFICIENCY SYNCHRONOUS BUCK CONVERTER WITH PSM	
IC NO.	LTC7050X / LTC3884RHE-1
SKU NO.	DC2881A(A,B,C)
SCHEMATIC NO. AND REVISION: 710-DC2881A(A,B,C)_REV03	
SIZE:	N/A
DATE:	Monday, December 20, 2021
SHEET	3 OF 3



ANALOG DEVICES  
DC2881A-3 DATE: 06-14-21

SOLDERMASK TOP

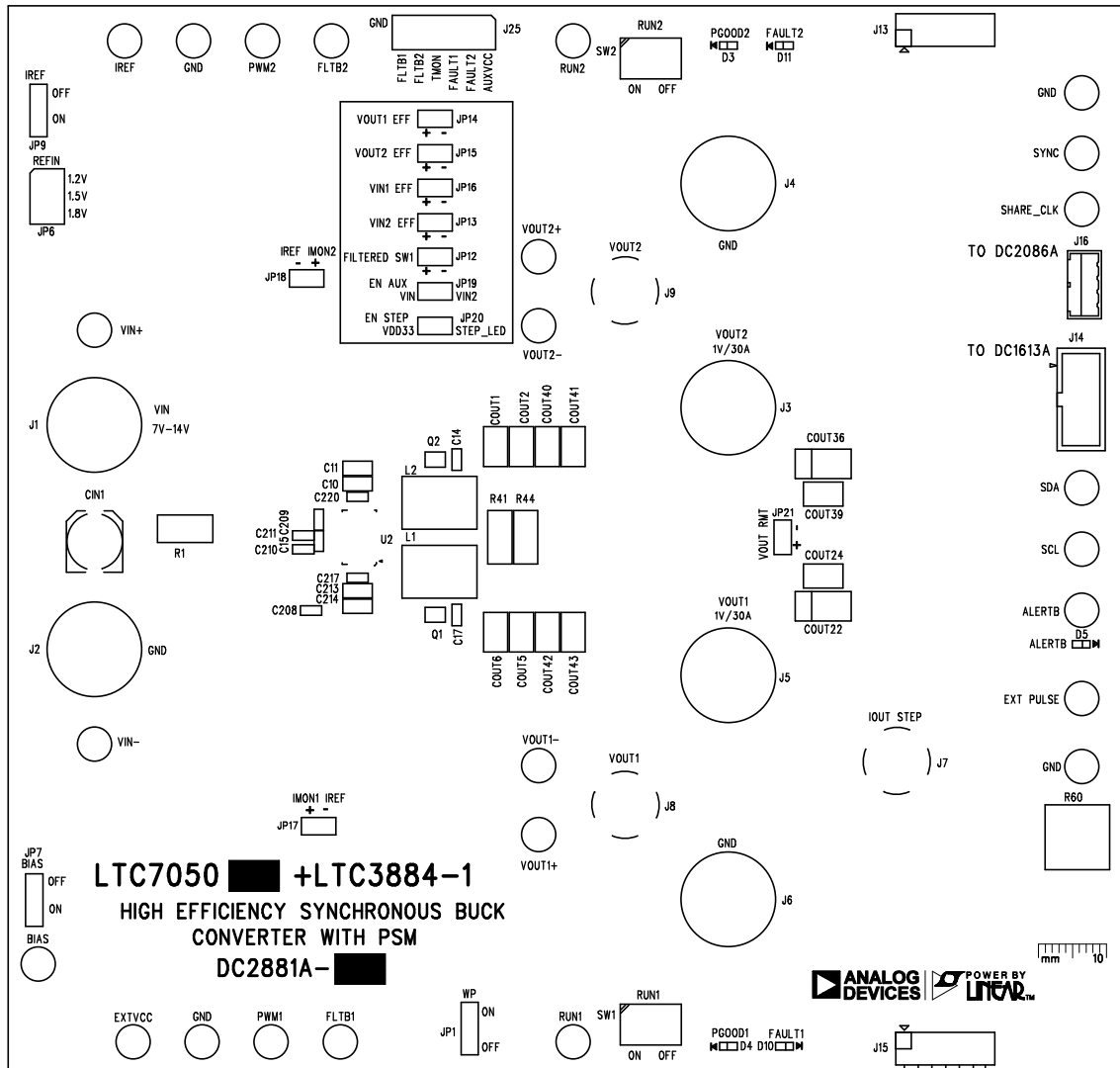




ANALOG DEVICES

DC2881A-3    DATE: 06-14-21

PASTEMASK TOP



ANALOG DEVICES  
 DC2881A-3 DATE: 06-14-21

SILKSCREEN TOP