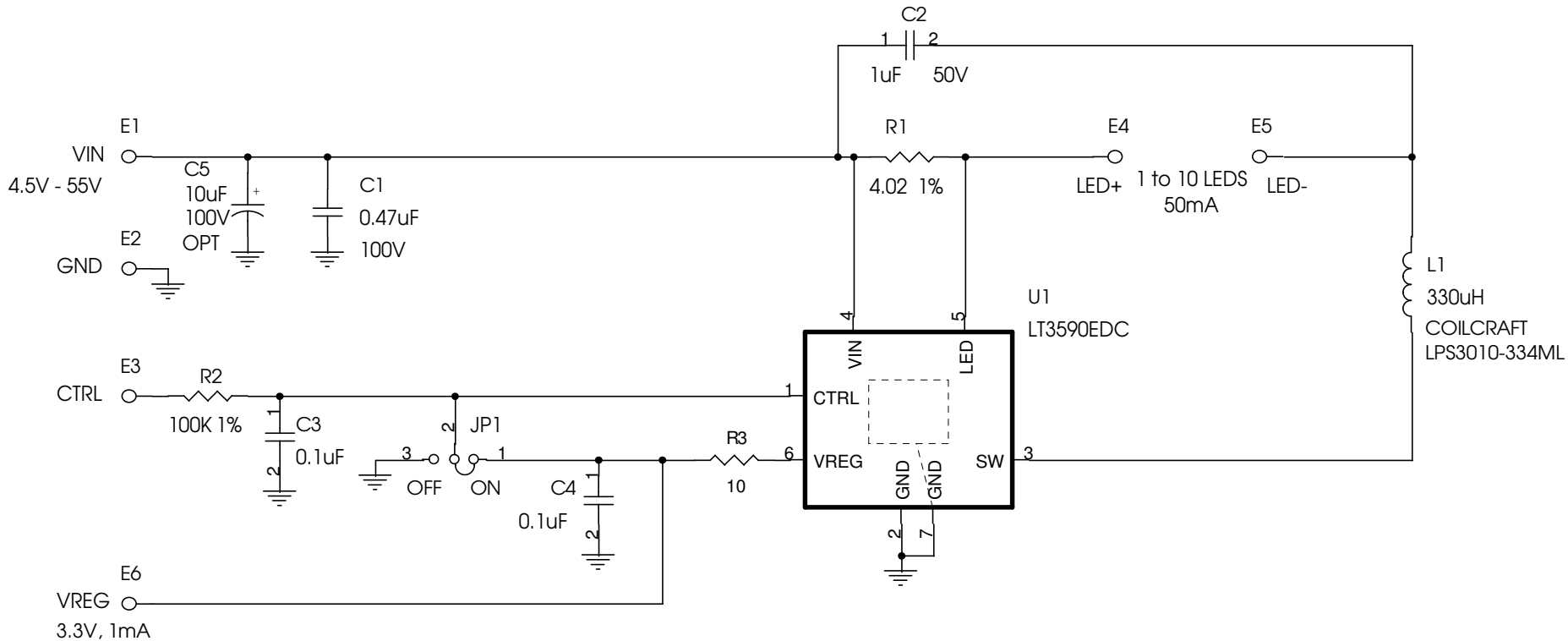



This circuit is proprietary to Linear Technology and supplied for use with Linear Technology parts.

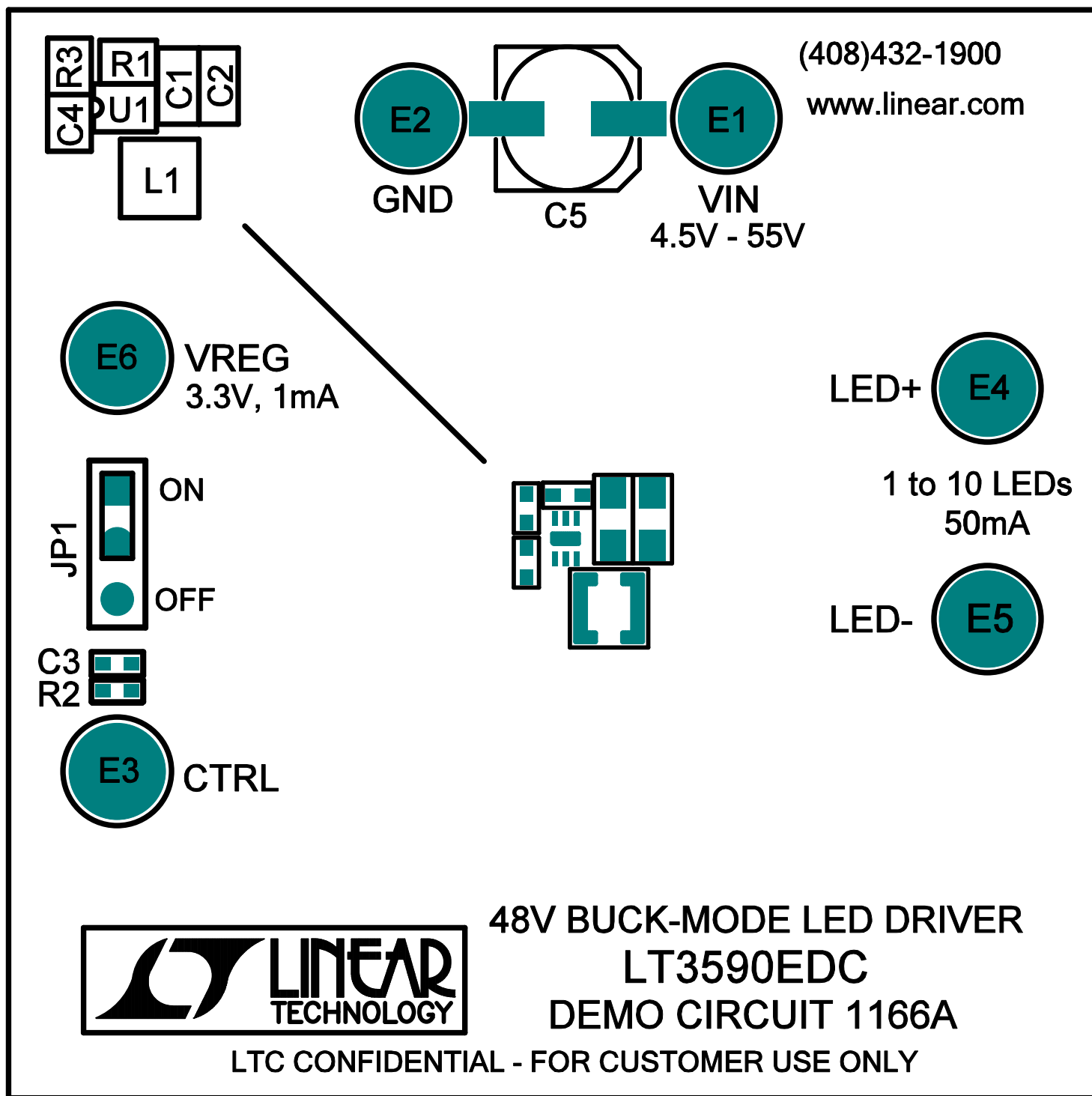
Customer Notice: Linear Technology has made a best effort to design a circuit that meets customer-supplied specifications; however, it remains the customers responsibility to verify proper and reliable operation in the actual application. Component substitution and printed circuit board layout may significantly affect circuit performance or reliability. Contact Linear Applications Engineering for assistance.

REVISION HISTORY				
ECO	REV	DESCRIPTION	DATE	APPROVED
	A	PROD	06/29/07	



CONTRACT NO.		 <div> 1630 McCarthy Blvd. Milpitas, CA 95035 Phone: (408)432-1900 Fax: (408)434-0507 </div>		
APPROVALS	DATE			
DRAWN MEI	06/29/07	TITLE SCH, LT3590EDC, 48V BUCK-MODE LED DRIVER		
CHECKED				
APPROVED				
ENGINEER				
DESIGNER				
Thursday, July 12, 2007		SIZE	CAGE CODE	DWG NO
				DC1166A
		SCALE:	FILENAME: 1166A-A.DSN	SHEET 1 OF 1


Item	Qty	Ref - Des	Desc	Manufacturer's Part Number
1	1	C1	CAP, 0805 0.47uF 10% 100V X7R	MURATA GRM21BR72A474KA73BL
2	1	C2	CAP, 0805 1uF 10% 50V X7R	MURATA GRM21BR71H105K
3	2	C4,C3	CAP, 0402 0.1uF 10% 16V X5R	AVX 0402YD104K
4	1	C5	CAP, 10uF 20% 100V ALUM	SANYO 100CE10BS
5	5	E1,E2,E3,E4,E5	TURRET	MILL-MAX 2501-2-00-80-00-00-07-0
6	1	JP1	HEADER, 3PIN .100	SAMTEC TSW-103-26-L-S
7	1	L1	INDUCTOR, 330uH	COILCRAFT LPS3010-334ML
8	1	R1	RES, 0402 4.02 OHMS 1% 1/16W	AAC CR05-4R02FM
9	1	R2	RES, 0402 100K OHM 1% 1/16W	VISHAY CRCW04021003FKEA
10	1	U1	IC, LT3590EDC	LINEAR TECH. LT3590EDC
11	1	JP1	SHUNT	SAMTEC SNT-100-BK-G

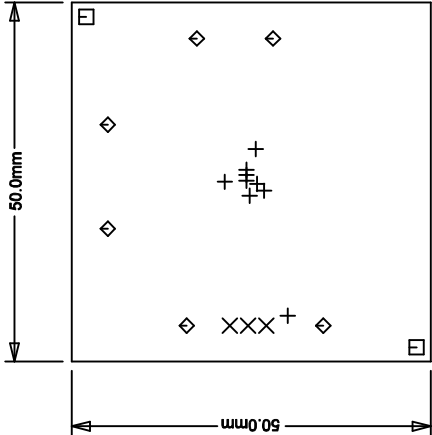


LINEAR TECHNOLOGY CORPORATION

DC1166A REV A
07/12/07

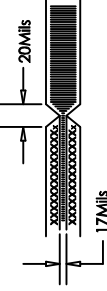
TOP SILKSCREEN

		DWG NO		DC1166A		SH	1	REV	A
REVISION HISTORY									
ECO	REV	DESCRIPTION				DATE		APPROVED	
	A	PROD				06/29/07			

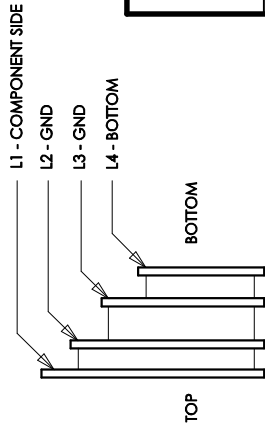


NOTES: UNLESS OTHERWISE SPECIFIED, _____


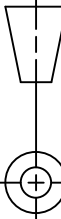
1. ARTWORK P/N DC1166A REV A.
2. FAB PER IPC-A-600
3. MATERIAL: EPOXY FIBERGLASS, NEMA GRADE FR-4
1.6 +/- 0.13 mm THICKNESS WITH 2 OZ. (50um)
COPPER FINISH ON TWO OUTER LAYERS AND
1 OZ. (25um) COPPER ON TWO INTERNAL LAYERS.
FLAMABILITY RATING: 94 V-2 MINIMUM .
4. SIZE: CUT TO DIMENSIONS AND TOLERANCES SHOWN.
0.00 ARE PRIMARY DATUMS.
5. BOARD: SELECTIVE PLATED BOARD. SOLDER
MASK OVER BARE COPPER, COLOR, GREEN LPI.
WHITE TIN IMMERSION (OMIKRON PROCESS) BOTH SIDES.
SILKSCREEN BOTH SIDES WITH WHITE
NON-CONDUCTIVE INK.
PLATE THRU ALL HOLES WITH COPPER
MIN. PLATING THICKNESS: 1 OZ. (25um) EXCEPT
WHERE PLATING NOT REQUIRED
6. DRILL: ALL HOLES SHALL BE DRILLED +/- 0.08mm
WITH RESPECT TO CTR. OF DRILLED PAD.
ALL HOLES FINISHED SIZE AFTER PLATING.
7. DO NOT ALTER ARTWORK e.g. TO ADD LOGO OR DATE CODE.
8. SCORING:



SIZE	QTY	SYM	PLATED	TOL
0.25	9	+	YES	+/-0.08
1	3	X	YES	+/-0.08
1.8	2	□	NO	+/-0.13
2.4	6	◇	YES	+/-0.25

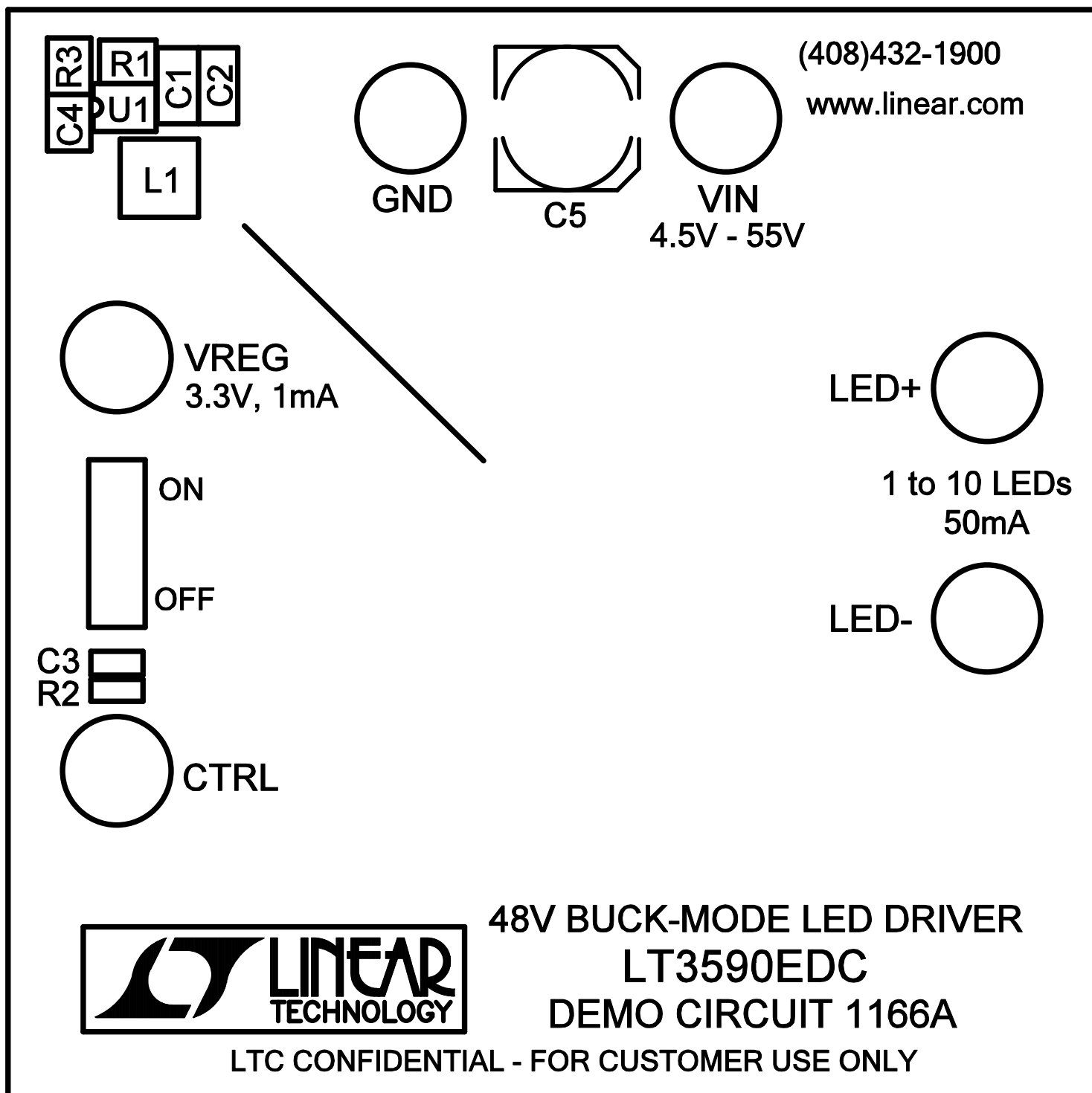


LAYER CONSTRUCTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ON ANGLE $\pm 1^{\circ}$ $.XX \pm 0.25$ $.XXX \pm 0.127$		CONTRACT NO.		 <div>1630 McCarthy Blvd. Milpitas, CA 95035</div> <div>Phone: (408) 432-1900 Fax: (408) 434-0507</div>	
<div>THIRD ANGLE PROJECTION</div> 		APPROVALS		TITLE	
		DRAWN MEI	DATE	FAB, LT3590EDC, 48V BUCK-MODE LED DRIVER	
			06/29/07		
		CHECKED		SIZE	REV
		APPROVED		A	A
DO NOT SCALE DRAWING		DESIGNED BY		CAGE CODE	DWG NO.
				DC1166A	
				SCALE 1/1	FILENAME: 1166A-A.PCB
				SHEET	1 OF 1



1630 McCarthy Blvd.
Milpitas, CA 95035
Phone: (408)432-1900
Fax: (408)434-0507

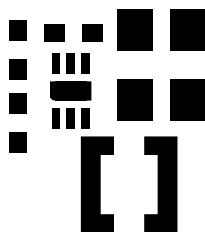


LINEAR TECHNOLOGY CORPORATION

DC1166A REV A

07/12/07

TOP SILKSCREEN

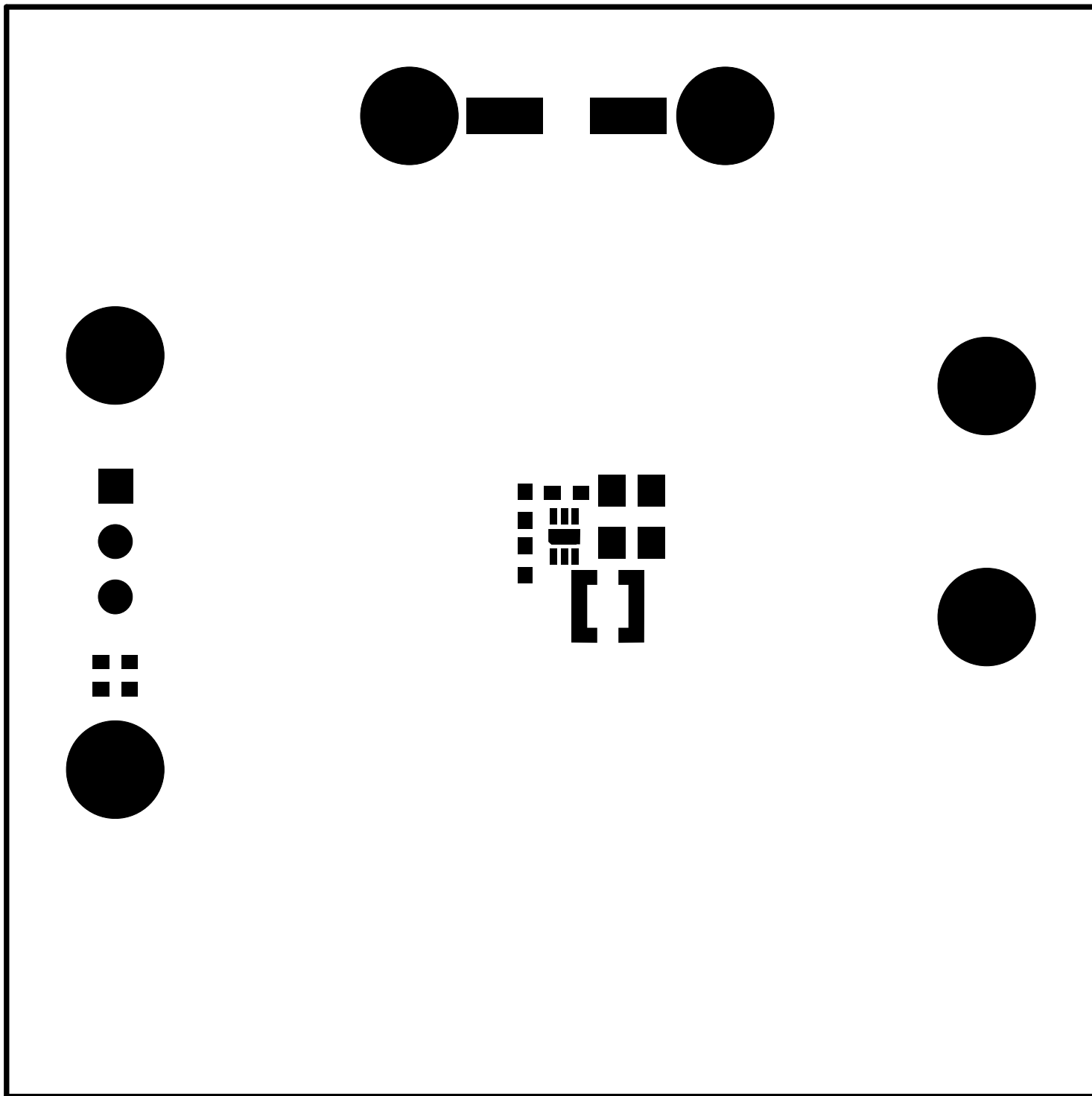


LINEAR TECHNOLOGY CORPORATION

DC1166A REV A

06/29/07

TOP PASTE

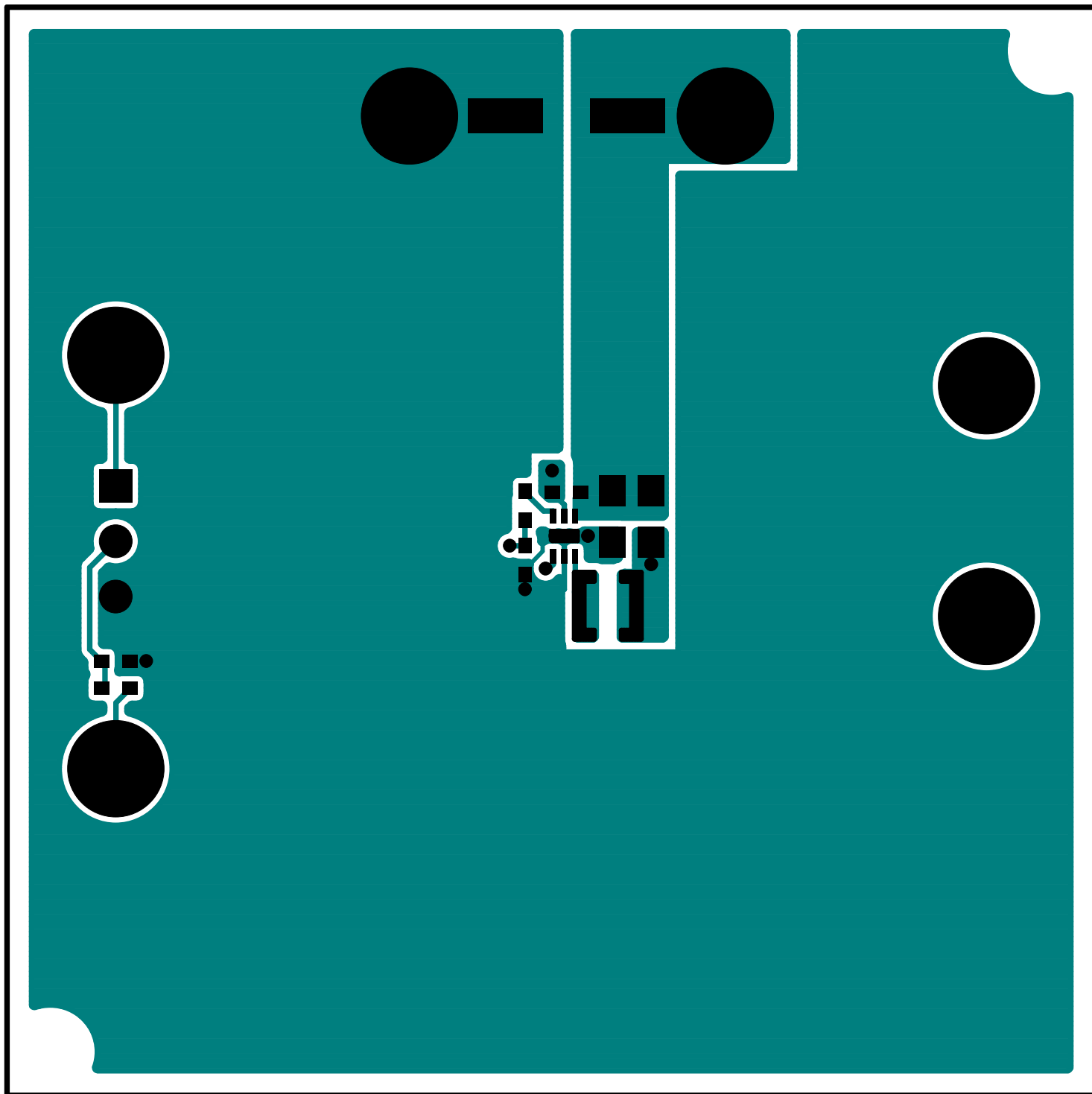


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DC1166A REV A

06/29/07

TOP SOLDERMASK

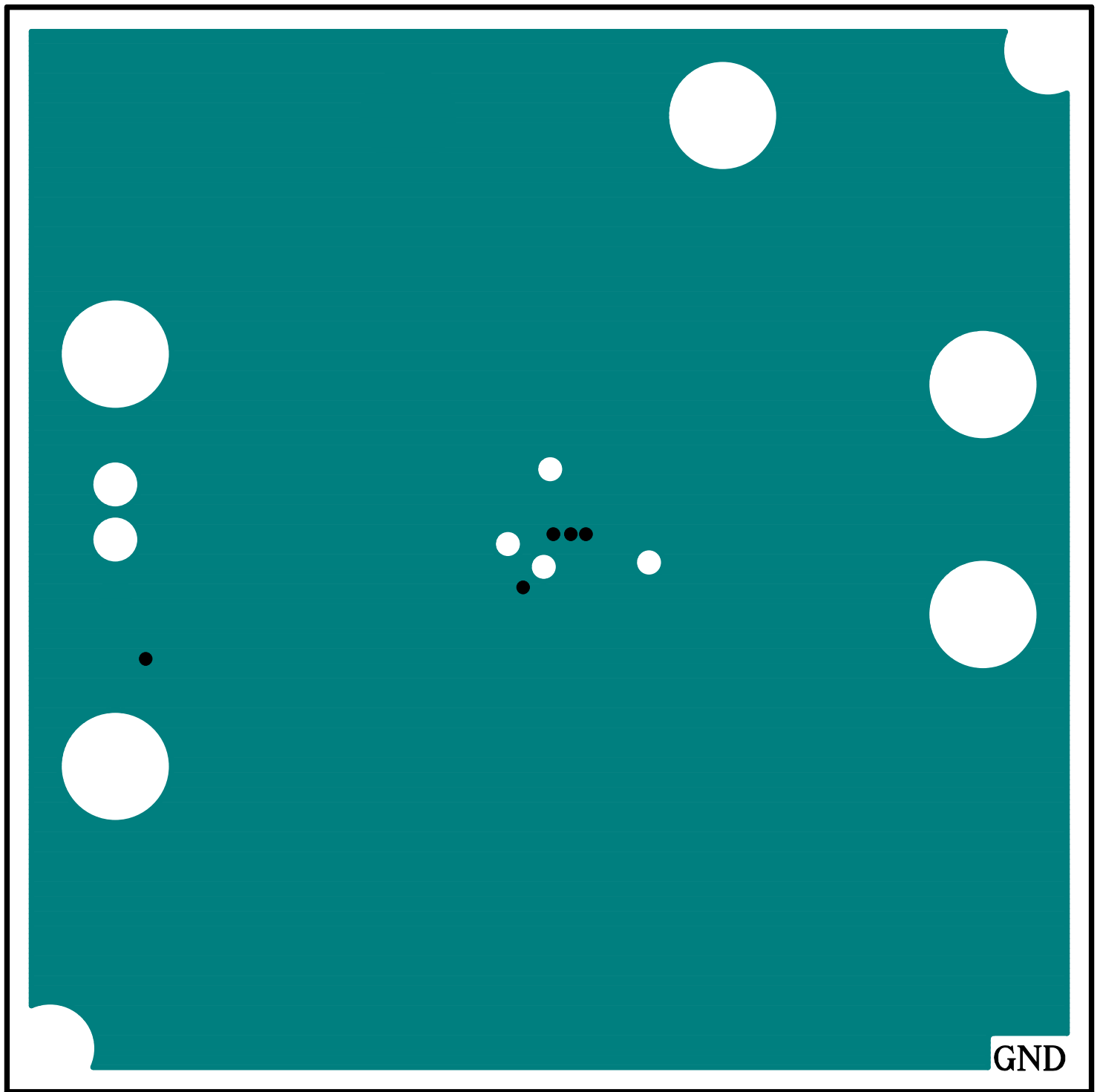


LINEAR TECHNOLOGY CORPORATION

DC1166A REV A

06/29/07

L1-COMPONENT SIDE

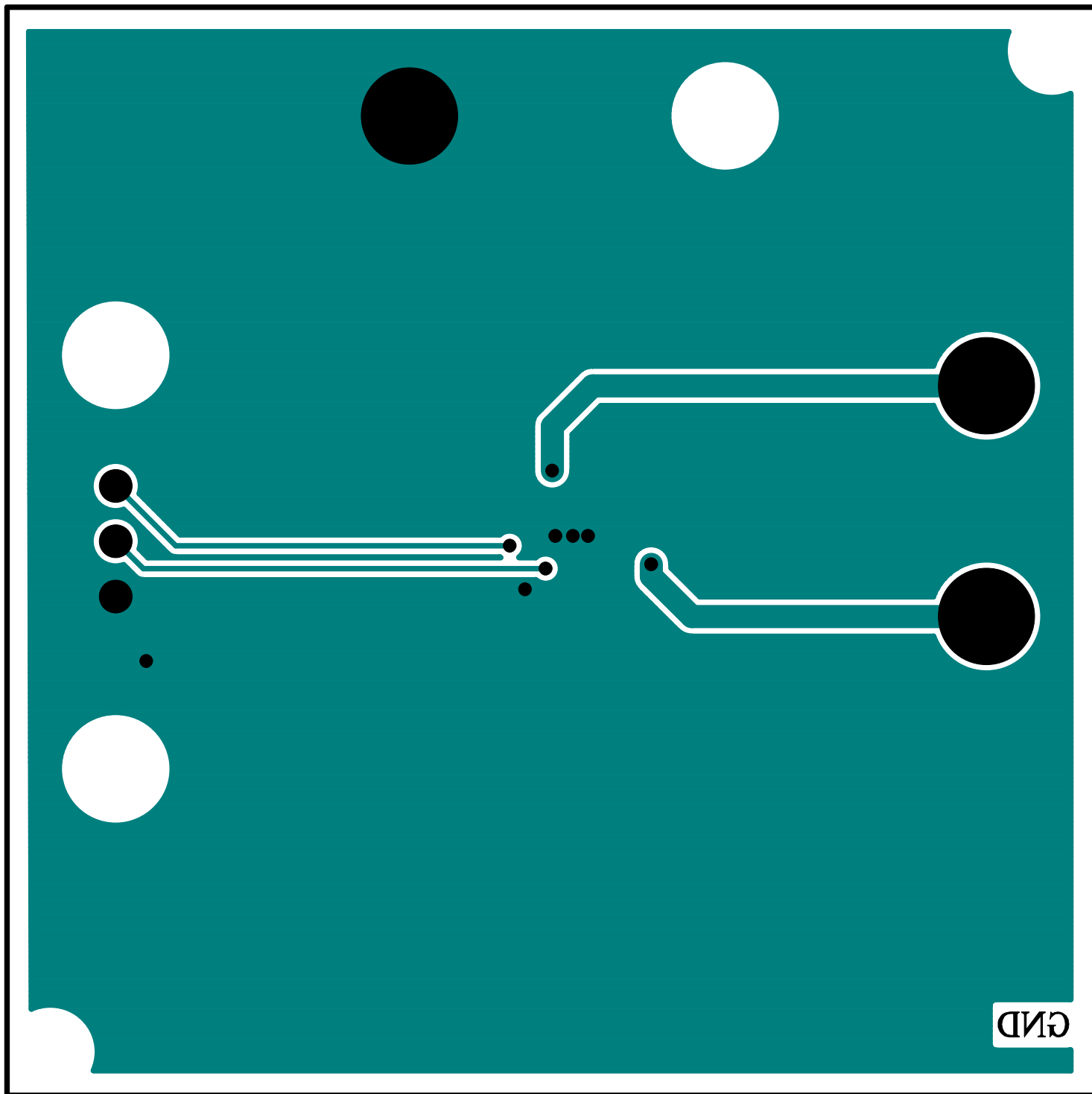


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DC1166A REV A

06/29/07

L2-GND LAYER

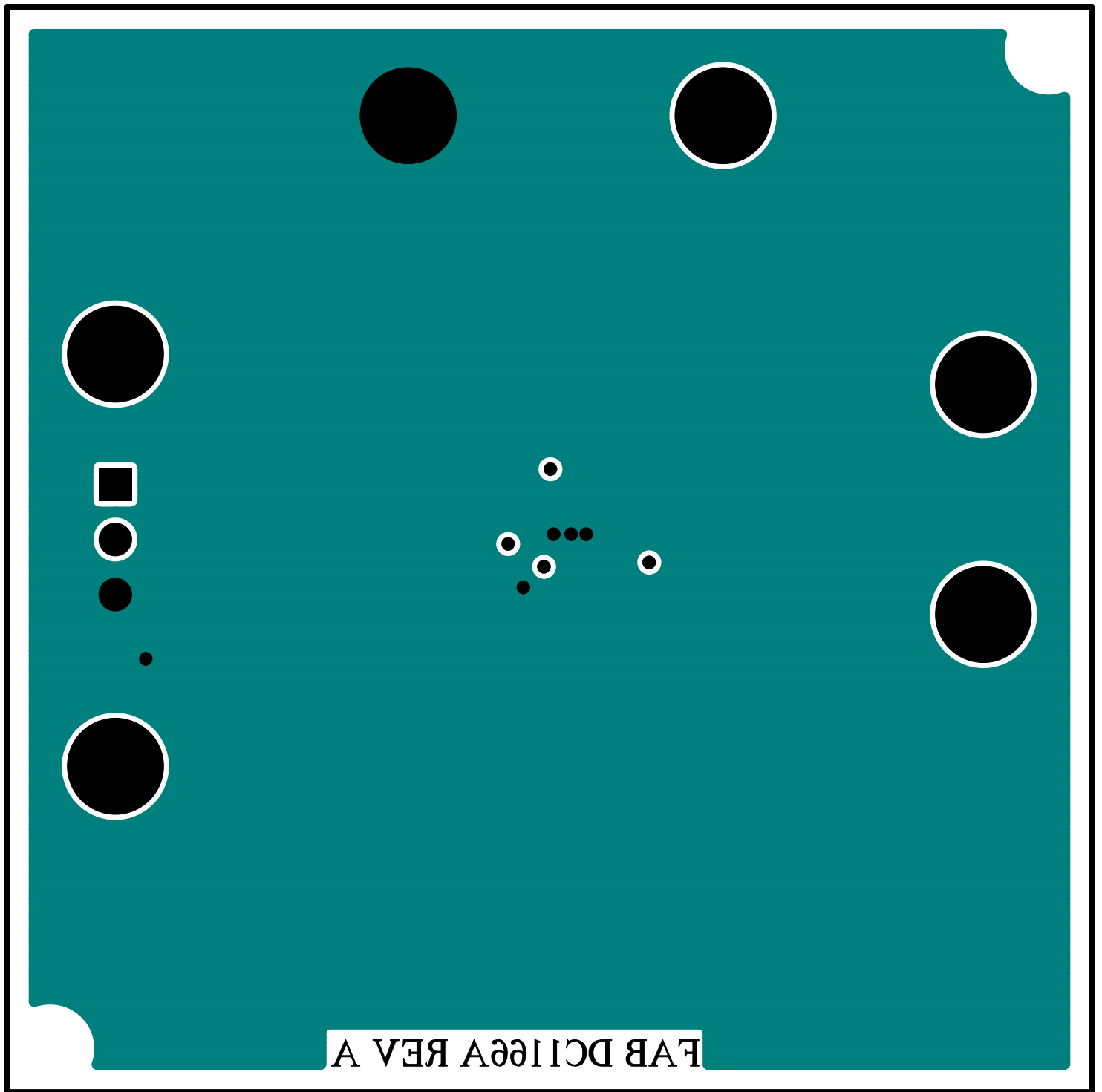


LINEAR TECHNOLOGY CORPORATION

DC1166A REV A

06/29/07

L3-GND LAYER

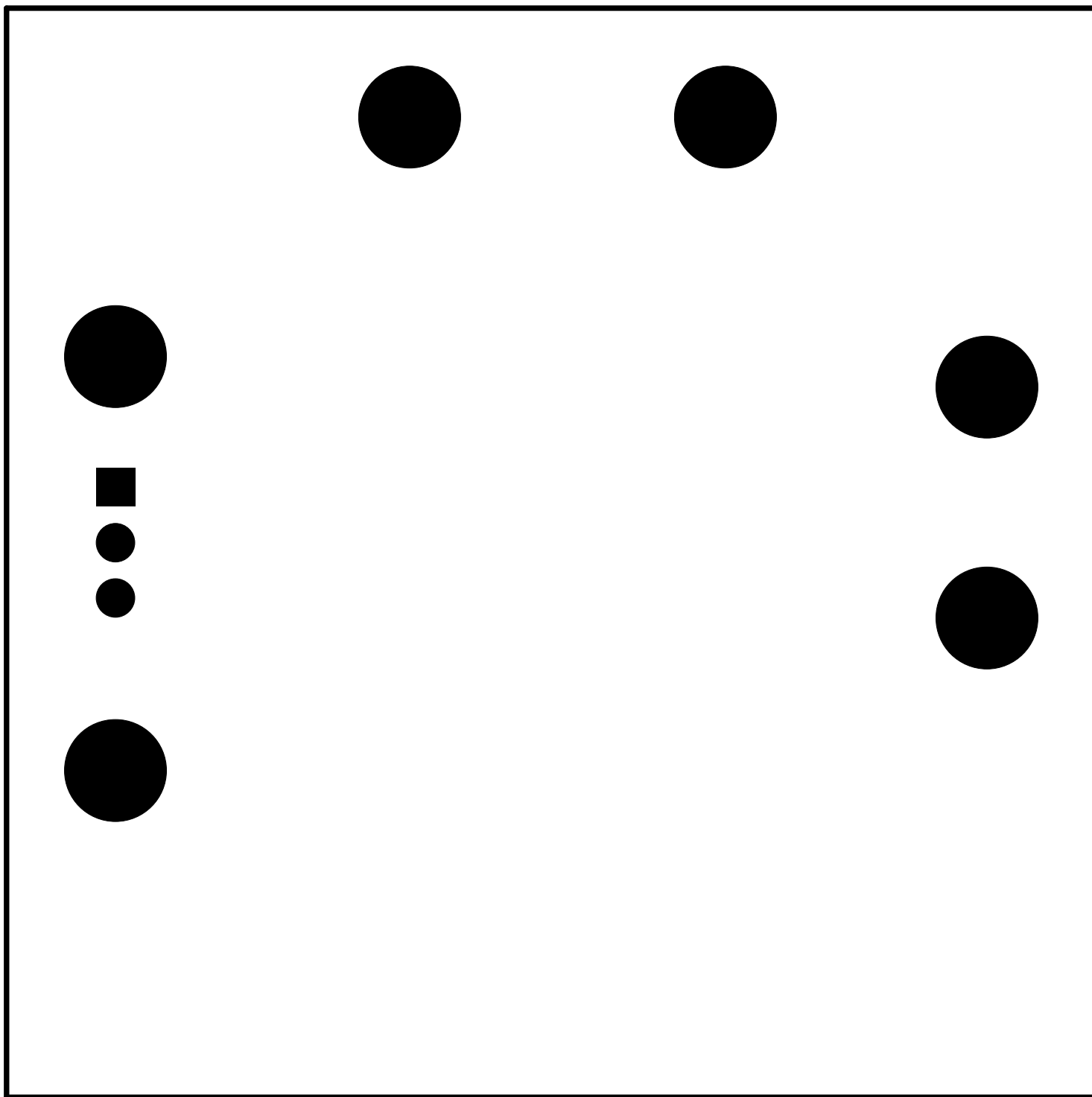


LINEAR TECHNOLOGY CORPORATION

DC1166A REV A

06/29/07

L4-BOTTOM LAYER



LINEAR TECHNOLOGY CORPORATION

DC1166A REV A

06/29/07

BTTM SOLDERMASK