

\* $V_{in}$  required for 8.5Vout regulation

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 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 Linear Applications Engineering for assistance.

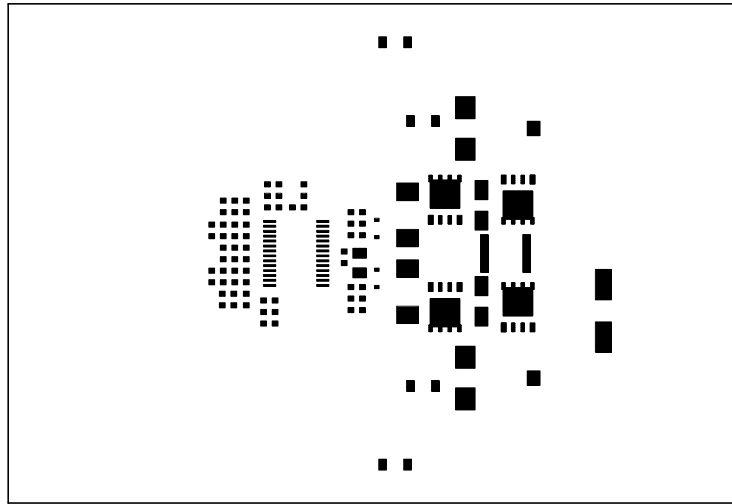
APPROVALS		LINEAR TECHNOLOGY CORPORATION	
DRAWN: Rudy Bautista		1630 McCARTHY BLVD www.linear.com	
ENGINEER: George Yu		MILPITAS, CA. 95035	
APPROVED:		(408) 432-1900 LTC Confidential -	
CHECKED:		(408) 434-0507 (FAX) For Customer Use Only	
868A_Rev0.pcb 868A_REV2.DSN		Date: Tuesday, December 20, 2005	
		Sheet 1 of 1	

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File: Low Quiescent Current Dual Synchronous Buck Converter  
 Size: Document Number DEMO CIRCUIT 868A Rev 2

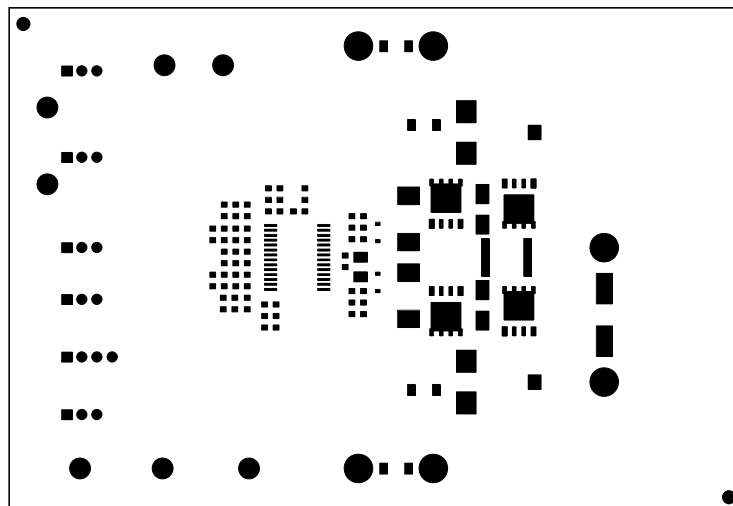
Linear Tech. Corp.  
Demo Circuit 868A

PasteMask Top



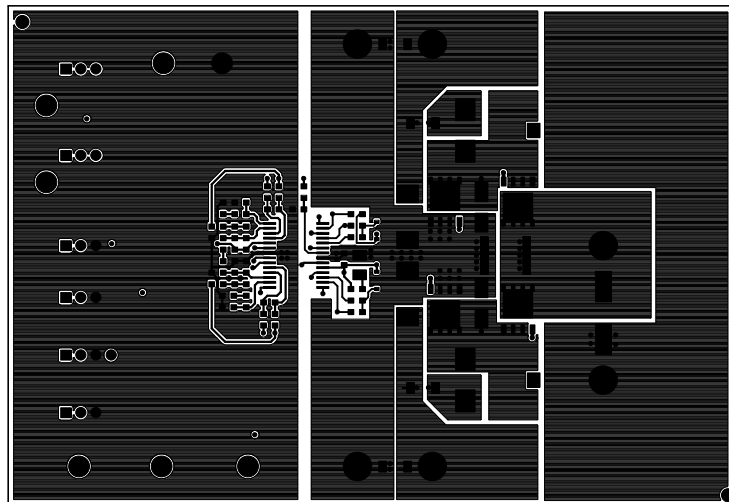
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Demo Circuit 868A

SolderMask Top



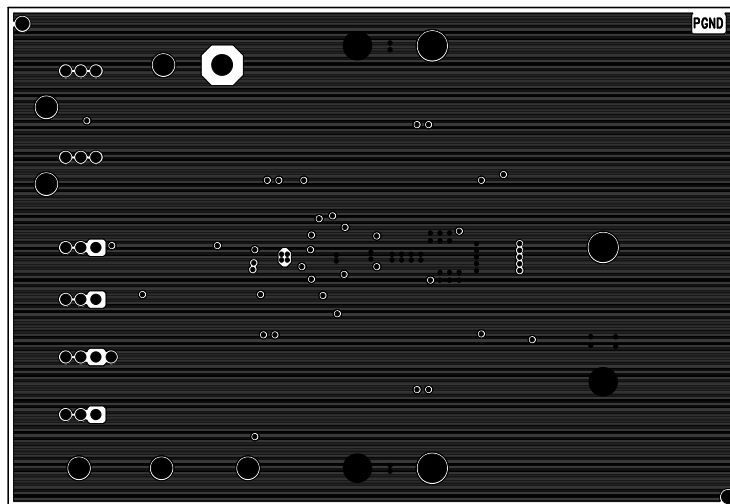
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Demo Circuit 868A

Component Side



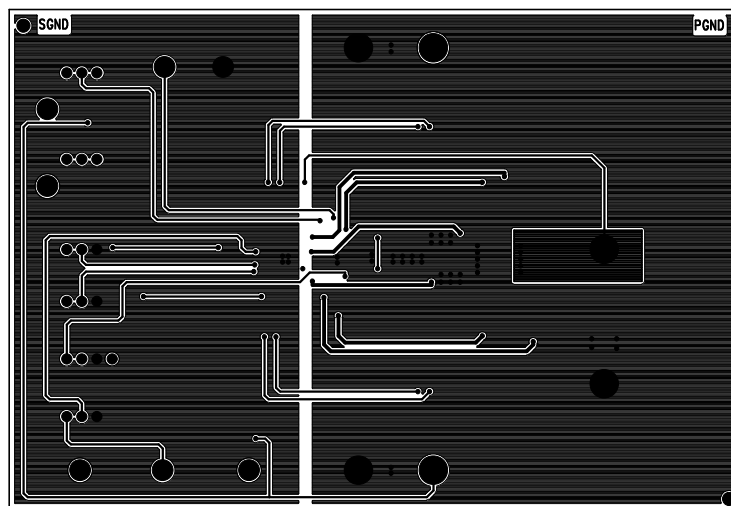
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Layer2



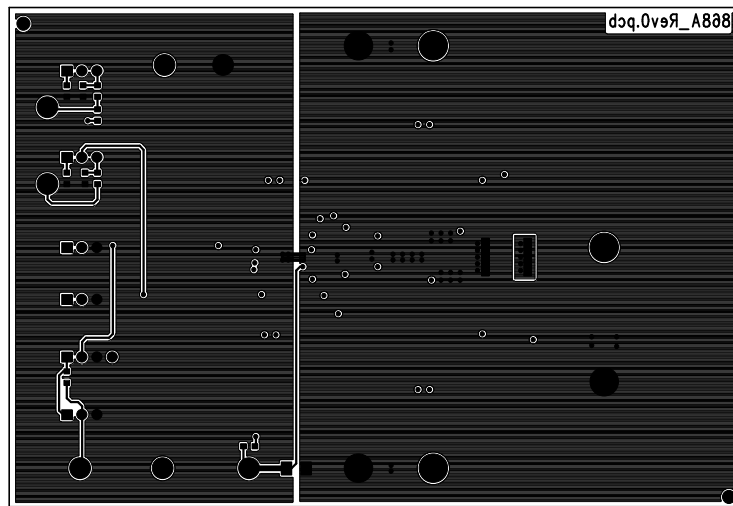
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Layer3



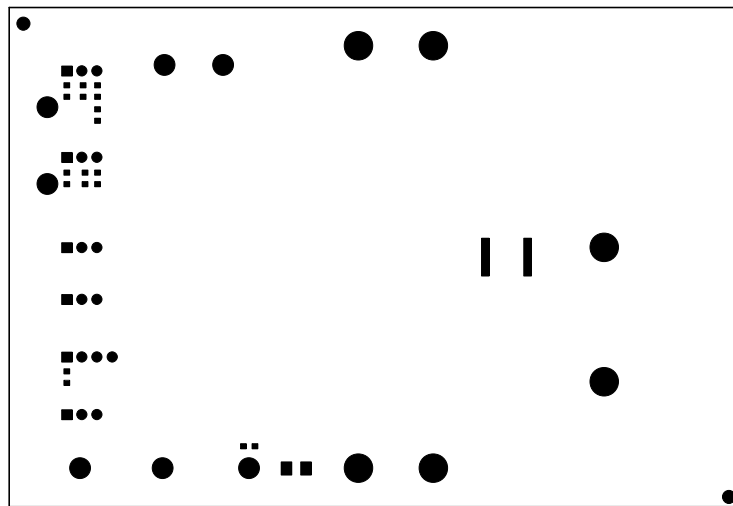
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Demo Circuit 868A

Solder Side



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Demo Circuit 868A

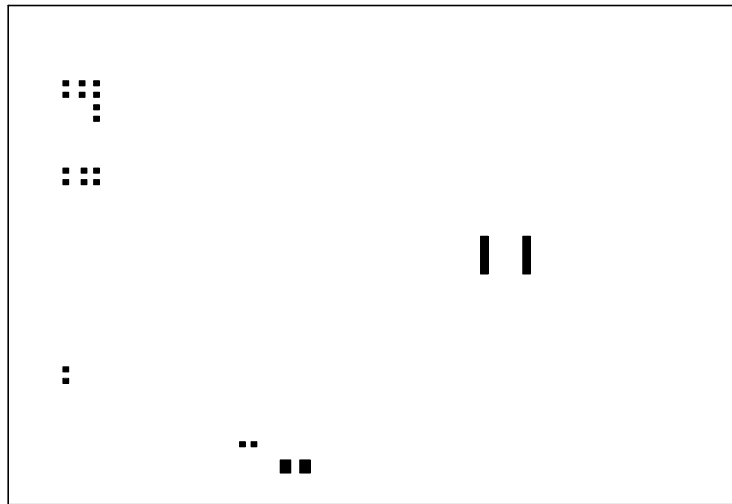
SolderMask Bottom





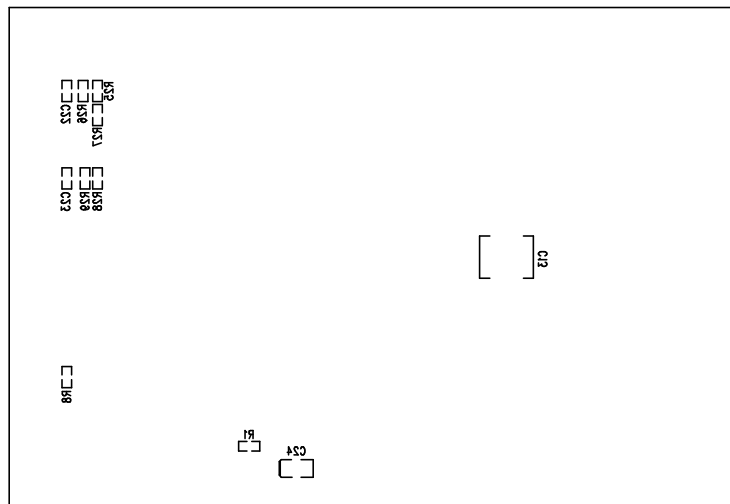
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Demo Circuit 868A

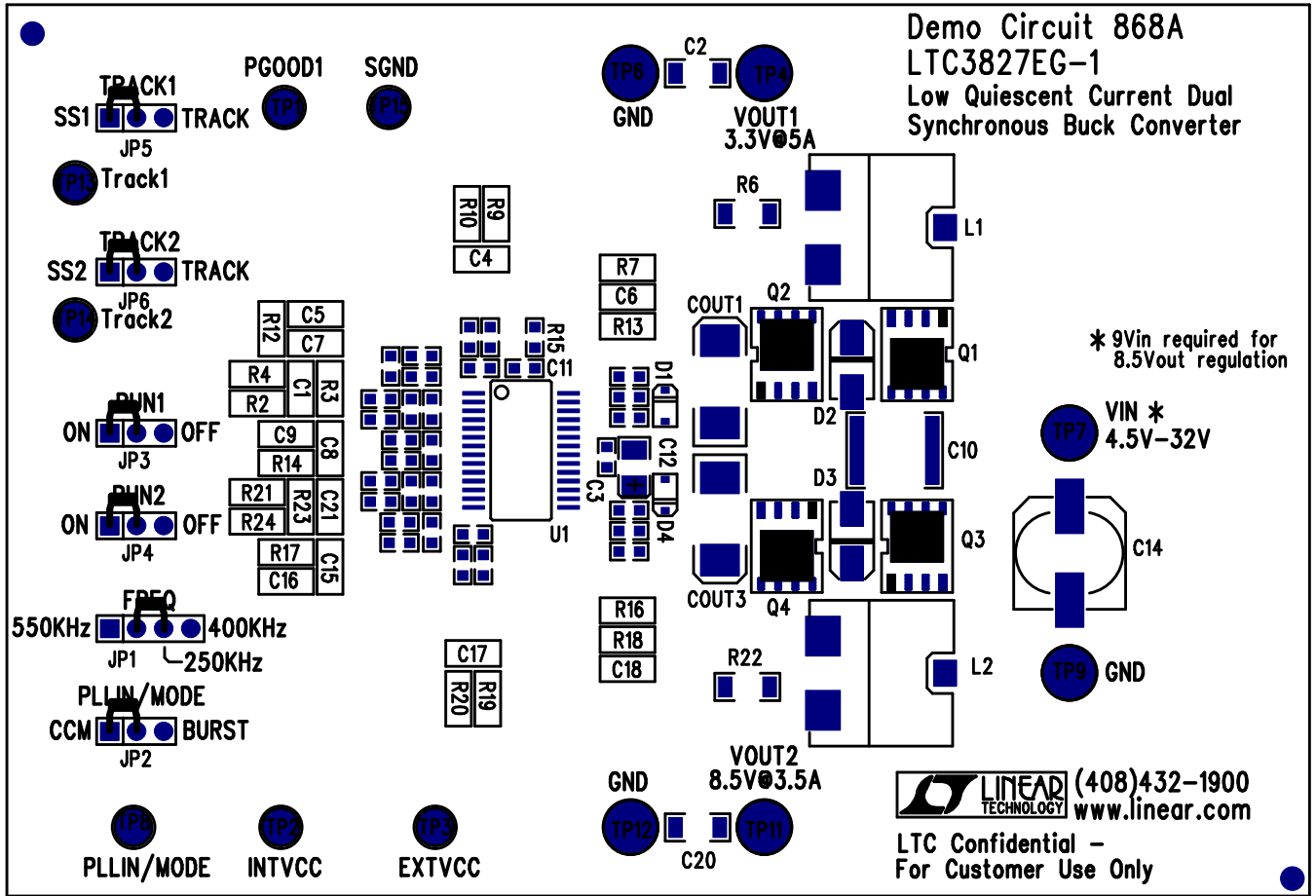
PasteMask Bottom




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Demo Circuit 868A

Silkscreen Bottom

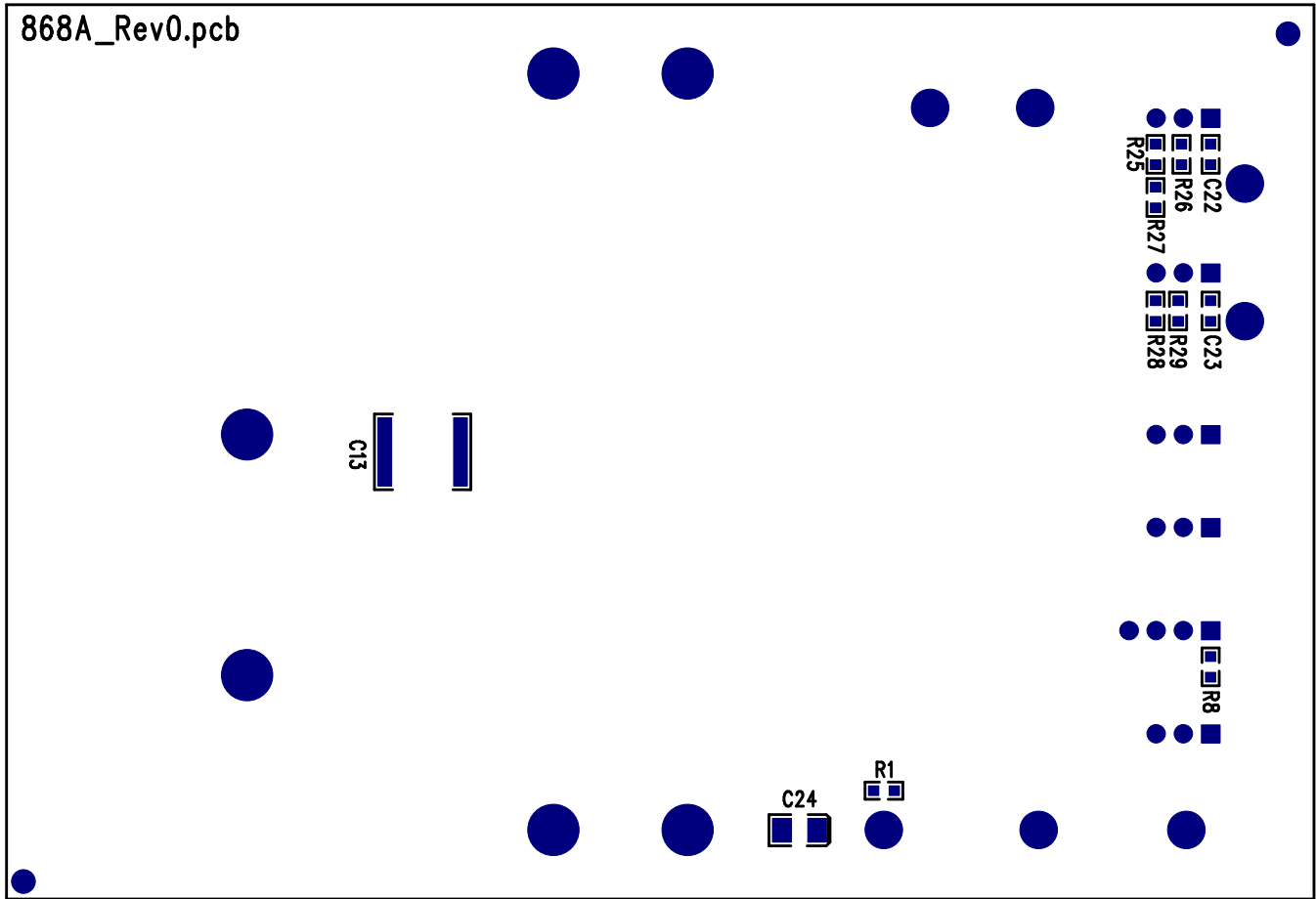





# Assembly Top Drawing

APPROVALS				1630 McCarthy Blvd. Milpitas, CA 95035 PH: (408)432-1900	
	INIT	DATE			
DRAWN			<b>TITLE:</b> Low Quiescent Current Dual Synchronous Buck Converter		
CHECK					
DESIGN	RmB				
ENGR	GYu				
			<b>SIZE</b> NONE	<b>Demo Circuit 868A</b>	<b>REV.</b> 2
<b>SCALE = NONE</b>			<b>DES-23xxxx</b>		<b>SHT 1 of 1</b>

Solder Side



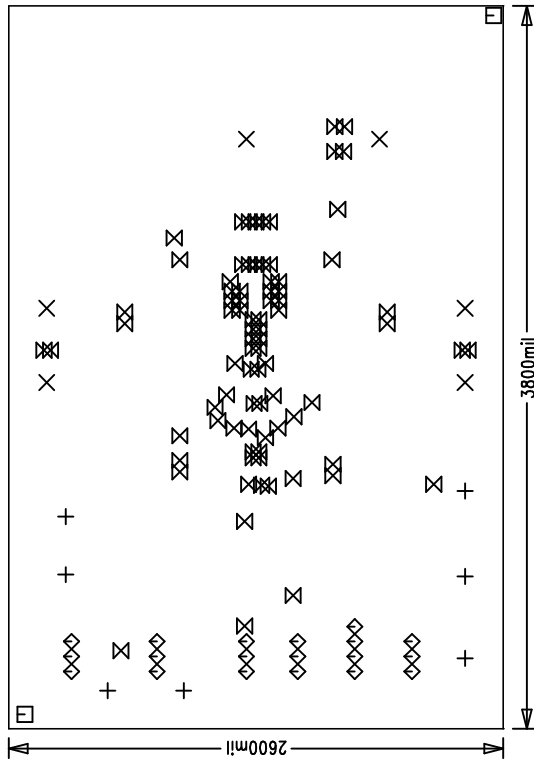
# Assembly Bottom Drawing

APPROVALS			 <b>LINEAR TECHNOLOGY</b>	1630 McCarthy Blvd. Milpitas, CA 95035 PH: (408)432-1900	
	INIT	DATE			
DRAWN			<b>TITLE: Low Quiescent Current Dual Synchronous Buck Converter</b>		
CHECK					
DESIGN	Rudy B		<b>SIZE NONE    Demo Circuit 868A    REV. 2</b>		
ENGR	GYu				
			<b>SCALE = NONE    DES-23xxxx    SHT 2 of 2</b>		

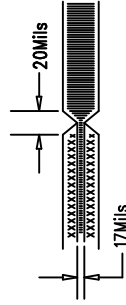
REVISIONS

REV APPR DATE

Linear Tech. Corp.  
Demo Circuit 868A



SIZE	QTY	SYM	PLTD	TOL
63	7	+	YES	+/-3MII
94	6	X	YES	+/-3MII
70	2	□	NO	+/-3MII
31	19	◇	YES	+/-3MII
10	82	⊗	YES	+/-3MII



**NOTES: UNLESS OTHERWISE SPECIFIED:**

- ARTWORK P/N Demo Circuit 868A Rev2
- FAB PER IPC-A-600. 4-Layers.
- MATERIAL: EPOXY FIBERGLASS, NEMA GRADE FR-4 .062 +/- .005 INCH THICKNESS WITH 2 OZ. COPPER FINISH ON TWO OUTER LAYERS AND 1 OZ. COPPER ON TWO INTERNAL LAYERS. FLAMABILITY RATING: 94 V-2 MINIMUM .
- SIZE: CUT TO DIMENSIONS AND TOLERANCES SHOWN. 0.00 ARE PRIMARY DATUMS.
- BOARD: SELECTIVE PLATED BOARD. SOLDER MASK OVER BARE COPPER, COLOR, GREEN LPI. WHITE TIN IMMERSION (OMIKRON) BOTH SIDES. SILKSCREEN COMPONENT SIDE WITH WHITE NON-CONDUCTIVE INK.
- DRILL: ALL HOLES SHALL BE DRILLED +/- .003 INCH WITH RESPECT TO CTR. OF DRILLED PAD. ALL HOLES FINISHED SIZE AFTER PLATING.
- DROP ALL UNUSED PADS ON INNER LAYERS.
- DO NOT ALTER ARTWORK e.g. TO ADD LOGO OR DATE CODE.
- SCORING:

Fabrication Drawing

APPROVALS

	INIT	DATE
DRAWN		
CHECK		
DESIGN	Rmb	
ENGR	Gyu	
SCALE = NONE		



1630 McCarthy Blvd.  
Milpitas, CA 95035  
PH: (408)432-1900

TITLE: Low Quiescent Current  
Dual Synchronous Buck Converter

SIZE NONE  
Demo Circuit 868A REV. 2

DES-23xxx SHT 1 of 1

Linear Tech. Corp.  
 Demo Circuit 868A  
 Silkscreen Top

