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LTC3816EUHF

HIGH EFFICIENCY SINGLE PHASE BUCK CONVERTER FOR INTEL IMVP-6/IMVP-6.5 CPUs

DESCRIPTION

Demonstration circuit 1672A is a high efficiency, single phase, synchronous buck converter for Intel IMVP-6/IMVP-6.5 CPUs. It can supply 25A maximum load current at up to 1.5V output with 4.5V to 28V input range. The demo board features the LTC3816EUHF controller. The LTC3816 is a single-phase synchronous buck controller in a constant-frequency voltage mode architecture. The controller's leading edge modulation topology allows extremely low output voltages and supports a phase-lockable switching frequency up to 550kHz. The output voltage is programmed using a 7-bit VID code. The default VID jumpers (VID6 to VID0) are set to be 0110000 for 0.9V output. The LTC3816 features all of the IMVP-6/IMVP-6.5 requirements, including start-up to a preset boot voltage, differential remote output voltage sensing with programmable active voltage positioning, I_{mon} output current reporting, power optimization during sleep state, and slow slew rate sleep state exit. Fault protection features include input undervoltage lockout, cycle-by-cycle current limit, output overvoltage protection, and power-good (PWRGD) and overtemperature flags. The LTC3816 supports wide input range (4.5V to 36V) with optional line feedforward compensation, temperature compensated inductor DCR or sense resistor output current monitoring. The LTC3816 can provide high efficiency, high power density and

versatile power solutions for embedded computing, mobile computers, internet devices and navigation displays. The controller is available in 38-pin thermally enhanced eTSSOP and 5mm × 7mm QFN packages.

The VRON pin (JP15) provides enable feature. To shut down the converter, one simple way is to force the VRON pin below 0.65V (JP15: OFF). Use JP19 jumper to select pulse-skipping or forced continuous mode operation. Switching frequency is pre-set at about 400kHz, and it can be easily modified from 150kHz to 550kHz. JP20~JP26 (VID0~VID7) are used to set the output voltage based on the IMVP-6/IMVP-6.5 VID code, as shown in table 2. JP1 and JP18 are used to select either IMVP6 or IMVP6.5 specification. For detailed information, please see LTC3816 data sheet and Intel IMVP-6/IMVP-6.5 specification.

Design files for this circuit board are available. Call the LTC factory.

Table 1. Performance Summary (T_A = 25°C)

PARAMETER	CONDITION	VALUE
Input Voltage Range		4.5V to 28V
Output Voltage, V _{OUT}	V _{IN} = 4.5-28V, I _{OUT} = 0A to 23A, VID6-0=0110000	0.9V ±1.5%
Maximum Output Current, I _{OUT}	V _{IN} = 4.5-28V, V _{OUTMAX} = 1.5V	25A
Typical Efficiency	V _{IN} = 12V, V _{OUT} = 1.5V, I _{OUT} = 23A	86.7%
Typical Switching Frequency		400kHz

Table 2. IMVP-6/IMVP-6.5 VID Output Voltage Programming

VID6	VID5	VID4	VID3	VID2	VID1	VID0	V _{CC(CORE)}
0	0	0	0	0	0	0	1.5000
0	0	0	0	0	0	1	1.4875
0	0	0	0	0	1	0	1.4750
0	0	0	0	0	1	1	1.4625
0	0	0	0	1	0	0	1.4500
0	0	0	0	1	0	1	1.4375
0	0	0	0	1	1	0	1.4250
0	0	0	0	1	1	1	1.4125
0	0	0	1	0	0	0	1.4000
0	0	0	1	0	0	1	1.3875
0	0	0	1	0	1	0	1.3750
0	0	0	1	0	1	1	1.3625
0	0	0	1	1	0	0	1.3500
0	0	0	1	1	0	1	1.3375
0	0	0	1	1	1	0	1.3250
0	0	0	1	1	1	1	1.3125
0	0	1	0	0	0	0	1.3000
0	0	1	0	0	0	1	1.2875
0	0	1	0	0	1	0	1.2750
0	0	1	0	0	1	1	1.2625
0	0	1	0	1	0	0	1.2500
0	0	1	0	1	0	1	1.2375
0	0	1	0	1	1	0	1.2250
0	0	1	0	1	1	1	1.2125
0	0	1	1	0	0	0	1.2000
0	0	1	1	0	0	1	1.1875
0	0	1	1	0	1	0	1.1750
0	0	1	1	0	1	1	1.1625
0	0	1	1	1	0	0	1.1500
0	0	1	1	1	0	1	1.1375
0	0	1	1	1	1	0	1.1250
0	0	1	1	1	1	1	1.1125
0	1	0	0	0	0	0	1.1000
0	1	0	0	0	0	1	1.0875
0	1	0	0	0	1	0	1.0750
0	1	0	0	0	1	1	1.0625
0	1	0	0	1	0	0	1.0500
0	1	0	0	1	0	1	1.0375
0	1	0	0	1	1	0	1.0250
0	1	0	0	1	1	1	1.0125
0	1	0	1	0	0	0	1.0000
0	1	0	1	0	0	1	0.9875
0	1	0	1	0	1	0	0.9750
0	1	0	1	0	1	1	0.9625
0	1	0	1	1	0	0	0.9500
0	1	0	1	1	0	1	0.9375
0	1	0	1	1	1	0	0.9250
0	1	0	1	1	1	1	0.9125
0	1	1	0	0	0	0	0.9000
0	1	1	0	0	0	1	0.8875
0	1	1	0	0	1	0	0.8750
0	1	1	0	0	1	1	0.8625
0	1	1	0	1	0	0	0.8500
0	1	1	0	1	0	1	0.8375
0	1	1	0	1	1	0	0.8250
0	1	1	0	1	1	1	0.8125
0	1	1	1	0	0	0	0.8000
0	1	1	1	0	0	1	0.7875
0	1	1	1	0	1	0	0.7750
0	1	1	1	0	1	1	0.7625
0	1	1	1	1	0	0	0.7500
0	1	1	1	1	0	1	0.7375
0	1	1	1	1	1	0	0.7250
0	1	1	1	1	1	1	0.7125

VID6	VID5	VID4	VID3	VID2	VID1	VID0	V _{CC(CORE)}
1	0	0	0	0	0	0	0.7000
1	0	0	0	0	0	1	0.6875
1	0	0	0	0	1	0	0.6750
1	0	0	0	0	1	1	0.6625
1	0	0	0	1	0	0	0.6500
1	0	0	0	1	0	1	0.6375
1	0	0	0	1	1	0	0.6250
1	0	0	0	1	1	1	0.6125
1	0	0	1	0	0	0	0.6000
1	0	0	1	0	0	1	0.5875
1	0	0	1	0	1	0	0.5750
1	0	0	1	0	1	1	0.5625
1	0	0	1	1	0	0	0.5500
1	0	0	1	1	0	1	0.5375
1	0	0	1	1	1	0	0.5250
1	0	0	1	1	1	1	0.5125
1	0	1	0	0	0	0	0.5000
1	0	1	0	0	0	1	0.4875
1	0	1	0	0	1	0	0.4750
1	0	1	0	0	1	1	0.4625
1	0	1	0	1	0	0	0.4500
1	0	1	0	1	0	1	0.4375
1	0	1	0	1	1	0	0.4250
1	0	1	0	1	1	1	0.4125
1	0	1	1	0	0	0	0.4000
1	0	1	1	0	0	1	0.3875
1	0	1	1	0	1	0	0.3750
1	0	1	1	0	1	1	0.3625
1	0	1	1	1	0	0	0.3500
1	0	1	1	1	0	1	0.3375
1	0	1	1	1	1	0	0.3250
1	0	1	1	1	1	1	0.3125
1	1	0	0	0	0	0	0.3000
1	1	0	0	0	0	1	0.2875
1	1	0	0	0	1	0	0.2750
1	1	0	0	0	1	1	0.2625
1	1	0	0	1	0	0	0.2500
1	1	0	0	1	0	1	0.2375
1	1	0	0	1	1	0	0.2250
1	1	0	0	1	1	1	0.2125
1	1	0	1	0	0	0	0.2000
1	1	0	1	0	0	1	0.1875
1	1	0	1	0	1	0	0.1750
1	1	0	1	0	1	1	0.1625
1	1	0	1	1	0	0	0.1500
1	1	0	1	1	0	1	0.1375
1	1	0	1	1	1	0	0.1250
1	1	0	1	1	1	1	0.1125
1	1	1	0	0	0	0	0.1000
1	1	1	0	0	0	1	0.0875
1	1	1	0	0	1	0	0.0750
1	1	1	0	0	1	1	0.0625
1	1	1	0	1	0	0	0.0500
1	1	1	0	1	0	1	0.0375
1	1	1	0	1	1	0	0.0250
1	1	1	0	1	1	1	0.0125
1	1	1	1	0	0	0	0.0000
1	1	1	1	0	0	1	0.0000
1	1	1	1	0	1	0	0.0000
1	1	1	1	0	1	1	0.0000
1	1	1	1	1	0	0	0.0000
1	1	1	1	1	0	1	0.0000
1	1	1	1	1	1	0	0.0000
1	1	1	1	1	1	1	0.0000

QUICK START PROCEDURE

Demonstration circuit 1672A is easy to set up to evaluate the performance of the LTC3816EUHF. Refer to Figure 1 for the proper measurement equipment setup and jumpers' location, and follow the procedure below:

1. With power off, connect the input power supply to V_{in} (4.5V-28V) and GND (input return).
2. Set VID jumpers VID6-0: 0110000 for 0.9V output.
3. Connect the output load between V_{out} and GND (Initial load: no load).
4. Connect the DVMs to the input and outputs.
5. Turn on the input power supply and check for the proper output voltages. V_{out} should be within 0.885 V to 0.915V.
6. Once the proper output voltages are established, adjust the loads within the operating range and observe the output voltage regulation, ripple voltage and other parameters.

Note: When measuring the output or input voltage ripple, do not use the long ground lead on the oscilloscope probe. See Figure 2 for the proper scope probe technique. Short, stiff leads need to be soldered to the (+) and (-) terminals of an output capacitor. The probe's ground ring needs to touch the (-) lead and the probe tip needs to touch the (+) lead.

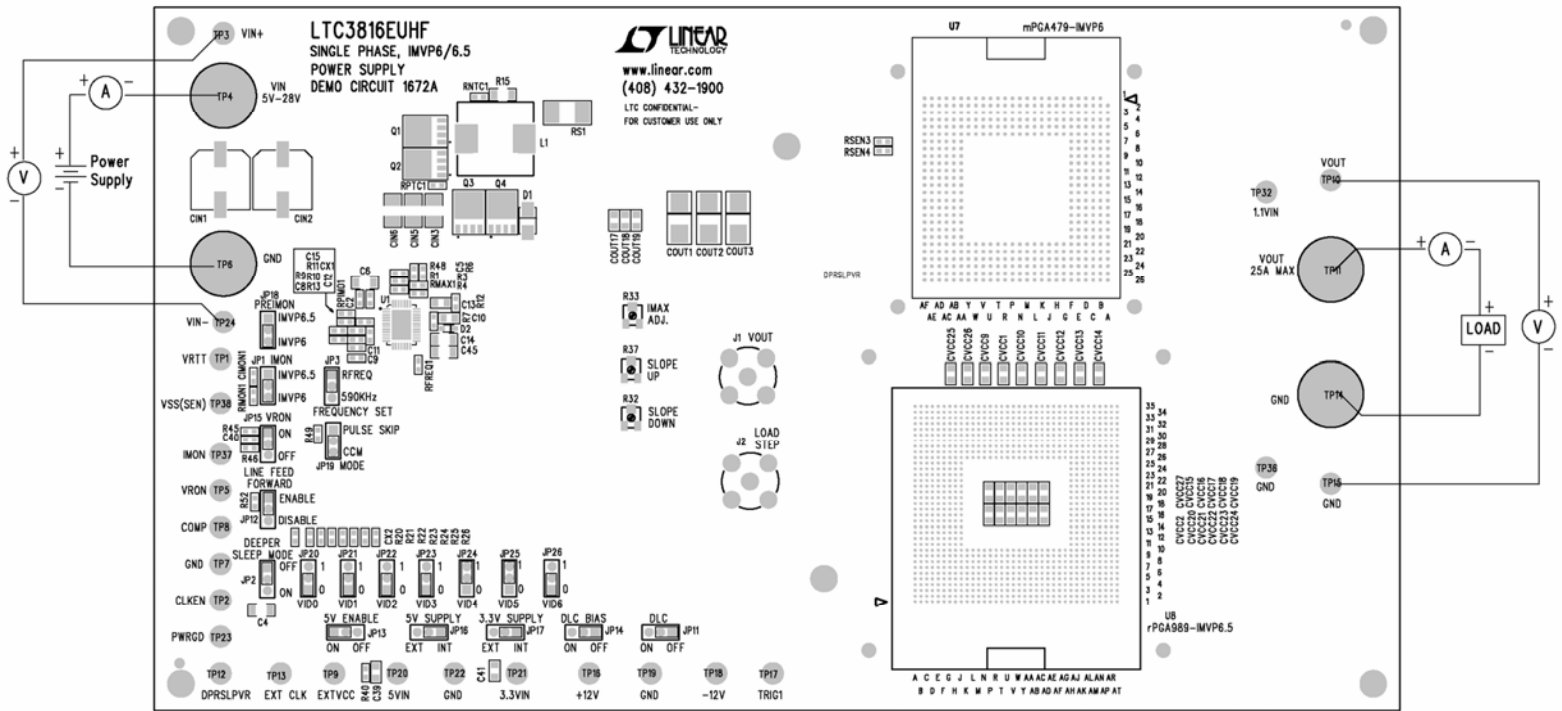


Figure 1. Proper Measurement Equipment Setup

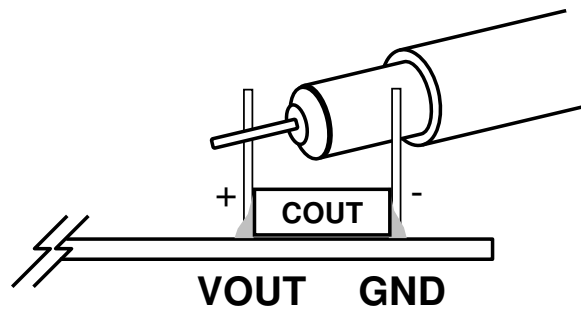


Figure 2. Measuring Output Voltage Ripple

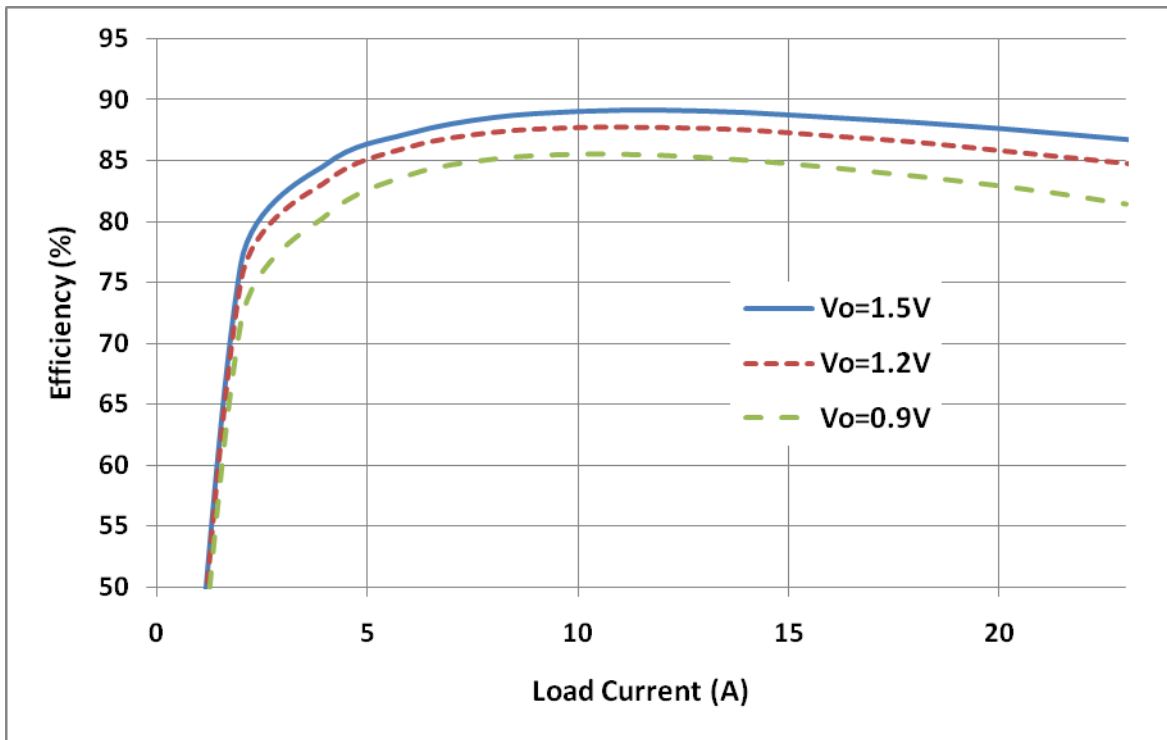
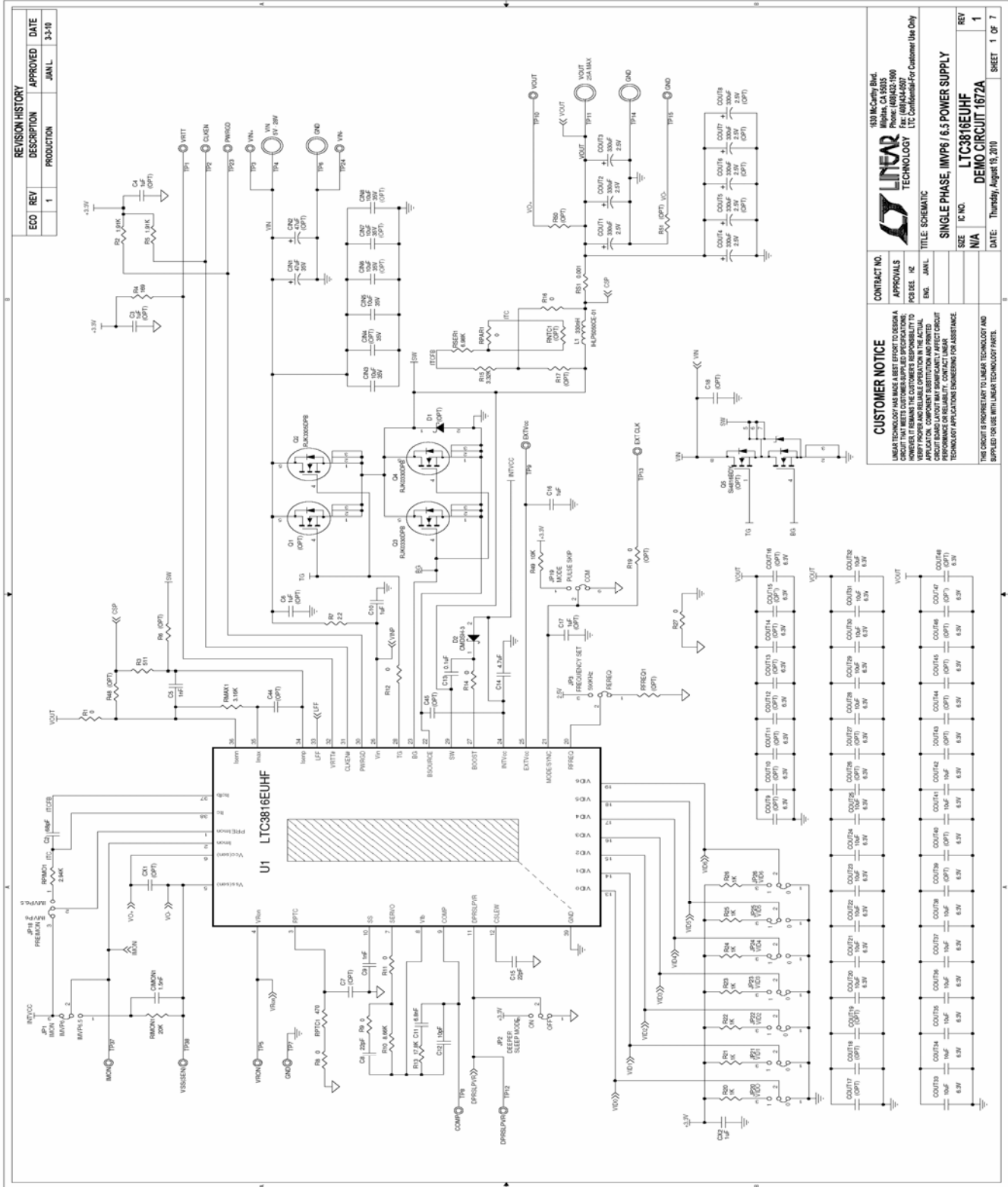


Figure 3. Efficiency vs load current

LTC3816EUHF



REVISION HISTORY		
ECO	REV	DESCRIPTION
1	1	PRODUCTION

APPROVED	DATE
JAN1	3-3-10

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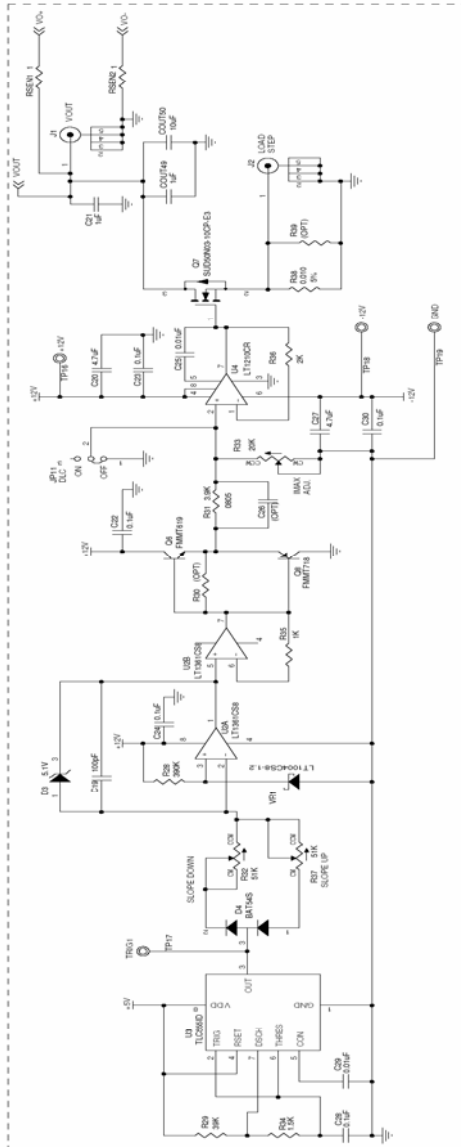
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APPROVALS
 PCB DES: HZ
 DES: JAN1

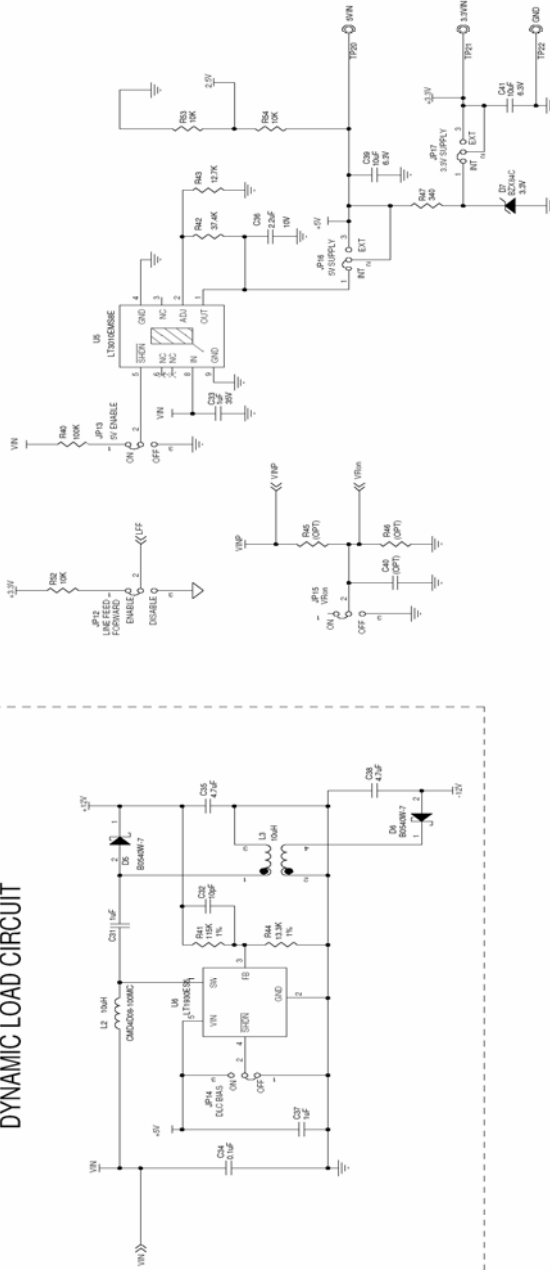
TITLE: SCHEMATIC
 SINGLE PHASE, 10MP6 / 6.5V POWER SUPPLY
 LTC3816EUHF
 DEMO CIRCUIT 1672A

SIZE I.C. NO. N/A
REV 1
DATE: Thursday, August 19, 2010
SHEET 1 OF 7





DYNAMIC LOAD CIRCUIT



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LTC3816EUHF		N/A	
DEMO CIRCUIT 1672A		REVISION	
DATE: Thursday, August 19, 2010		1	
		SHEET 2 OF 7	

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EXP	002P	TRM	012P	TRM	012P
EXP	003P	TRM	013P	TRM	013P
EXP	004P	TRM	014P	TRM	014P
EXP	005P	TRM	015P	TRM	015P
EXP	006P	TRM	016P	TRM	016P
EXP	007P	TRM	017P	TRM	017P
EXP	008P	TRM	018P	TRM	018P
EXP	009P	TRM	019P	TRM	019P
EXP	010P	TRM	020P	TRM	020P
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EXP	012P	TRM	022P	TRM	022P
EXP	013P	TRM	023P	TRM	023P
EXP	014P	TRM	024P	TRM	024P
EXP	015P	TRM	025P	TRM	025P
EXP	016P	TRM	026P	TRM	026P
EXP	017P	TRM	027P	TRM	027P
EXP	018P	TRM	028P	TRM	028P
EXP	019P	TRM	029P	TRM	029P
EXP	020P	TRM	030P	TRM	030P
EXP	021P	TRM	031P	TRM	031P
EXP	022P	TRM	032P	TRM	032P
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EXP	024P	TRM	034P	TRM	034P
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EXP	087P	TRM	097P	TRM	097P
EXP	088P	TRM	098P	TRM	098P
EXP	089P	TRM	099P	TRM	099P
EXP	090P	TRM	100P	TRM	100P

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 ENGIN: JANIL
TITLE: SCHEMATIC
SIZE: N/A
IC NO.: LTC3816EUHF
DEMO CIRCUIT 1672A
DATE: Tuesday, August 10, 2010

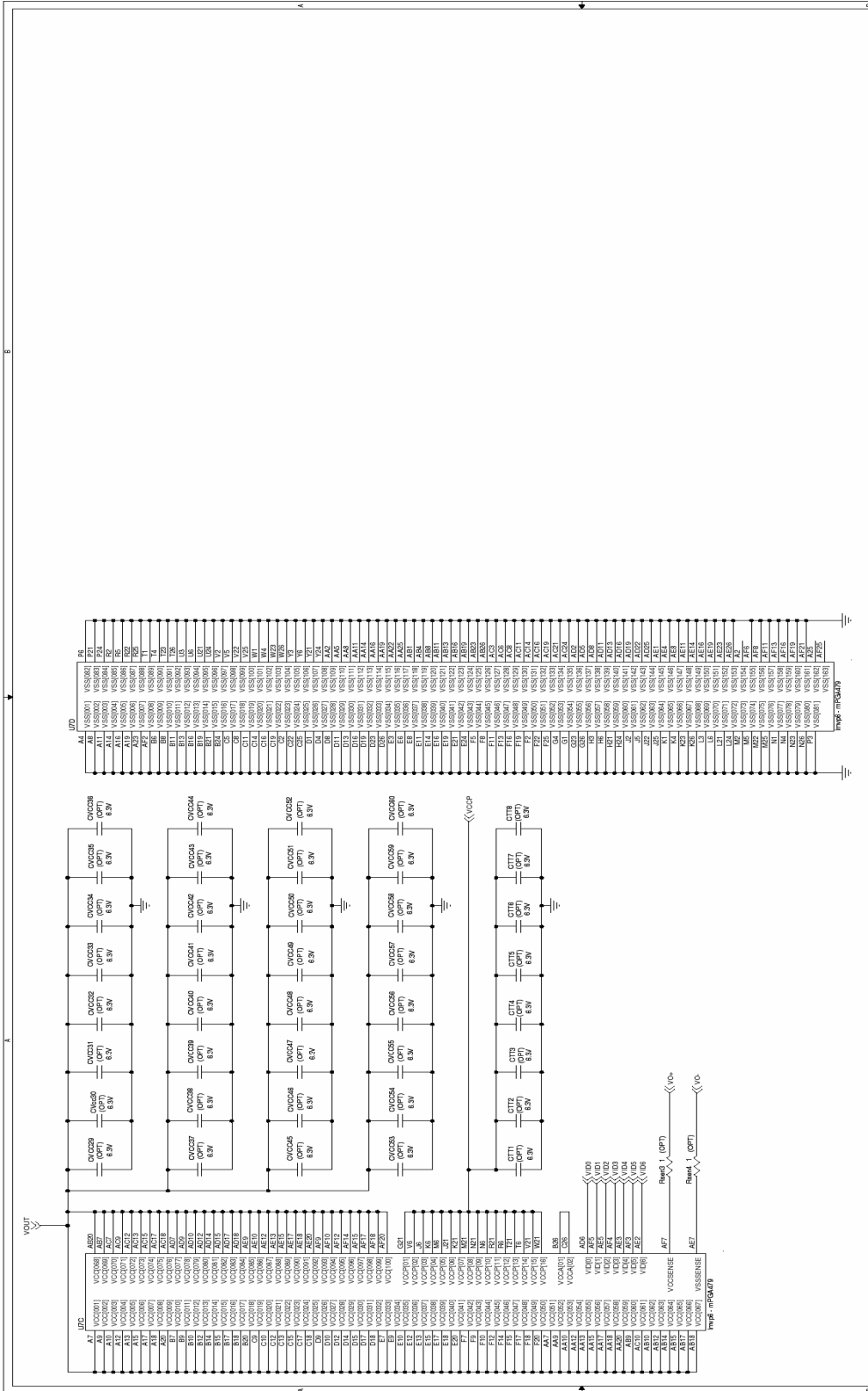
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LINEAR TECHNOLOGY

SINGLE PHASE, IIMPV6 6.5 POWER SUPPLY
LTC3816EUHF
DEMO CIRCUIT 1672A

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 ENG. JANK

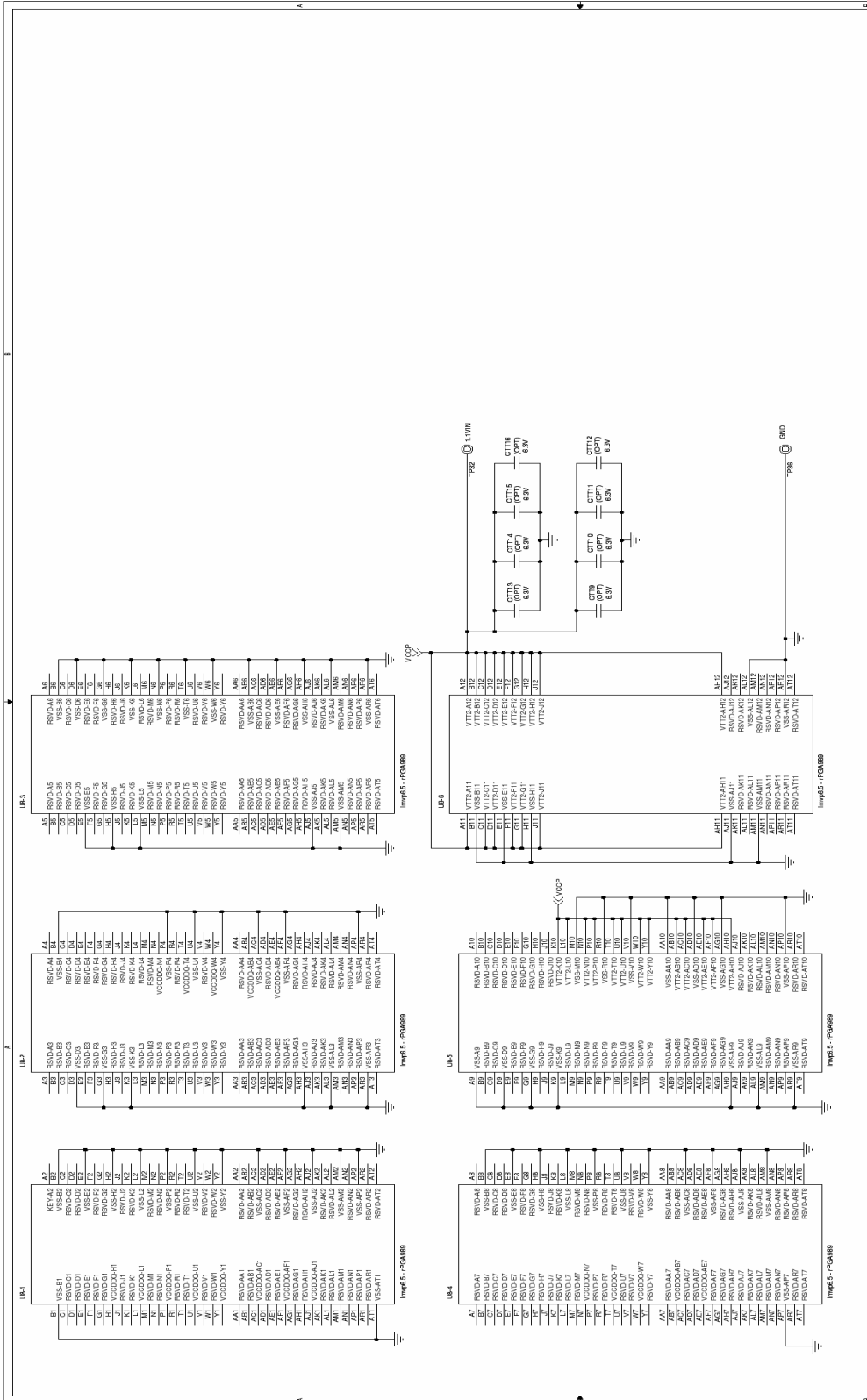
TITLE: SCHEMATIC
SINGLE PHASE, INVP6 / 6.5 POWER SUPPLY
IC NO. LTC3816EUHF
DEMOCIRCUIT 1672A

SEE N/A
DATE: Tuesday, August 10, 2010

REVISIONS
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 SHEET 4 OF 7



LTC 3816 EUHF



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						SINGLE PHASE, INVP6 / 6.5 POWER SUPPLY
						LTC3816EUHF
						DEMO CIRCUIT 1672A
						DATE: Tuesday, August 10, 2010
						SHEET 5 OF 7

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TITLE: SCHEMATIC

SINGLE PHASE, INVP6 / 6.5 POWER SUPPLY

LTC3816EUHF

DEMO CIRCUIT 1672A

DATE: Tuesday, August 10, 2010

SHEET 5 OF 7

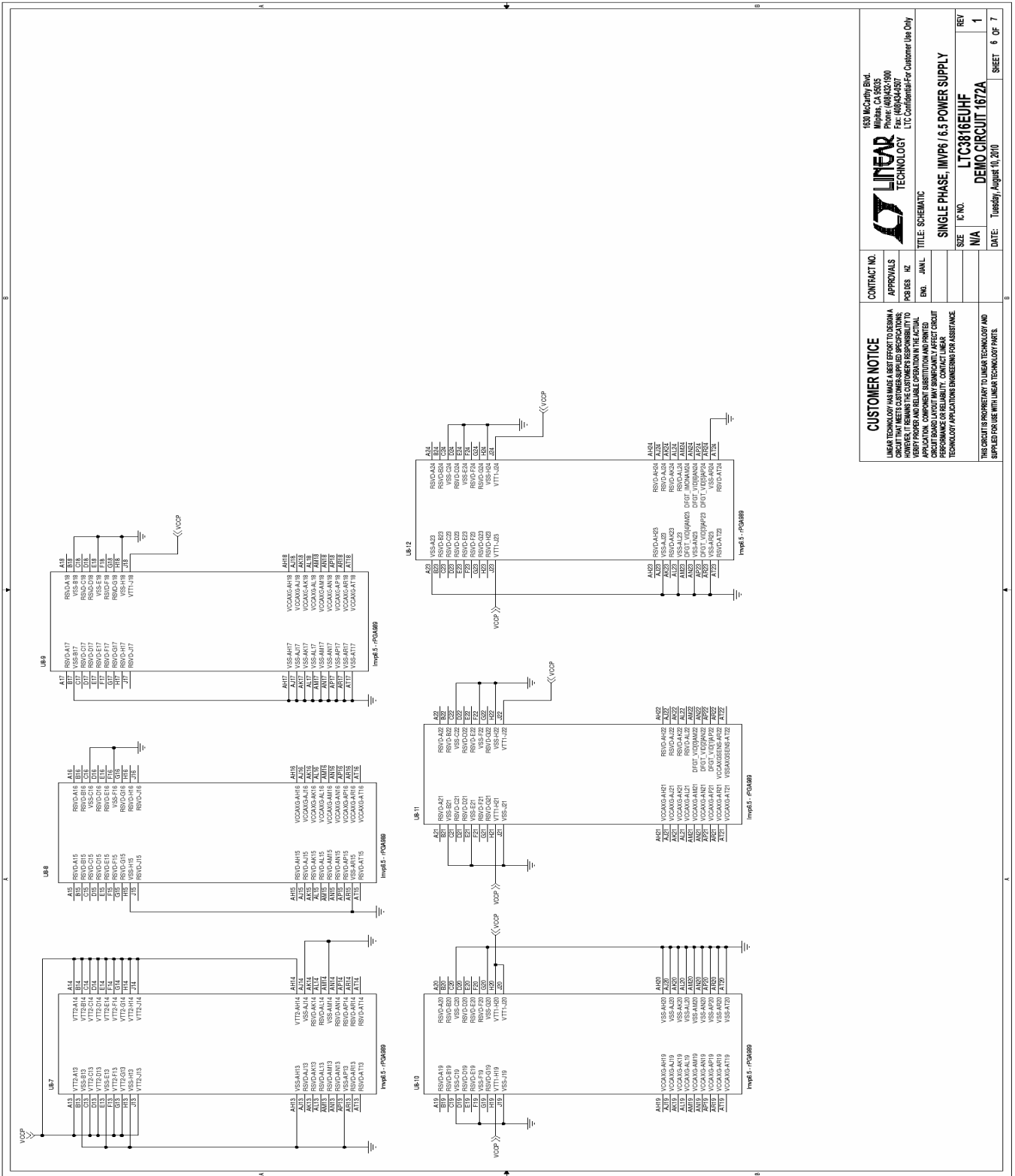
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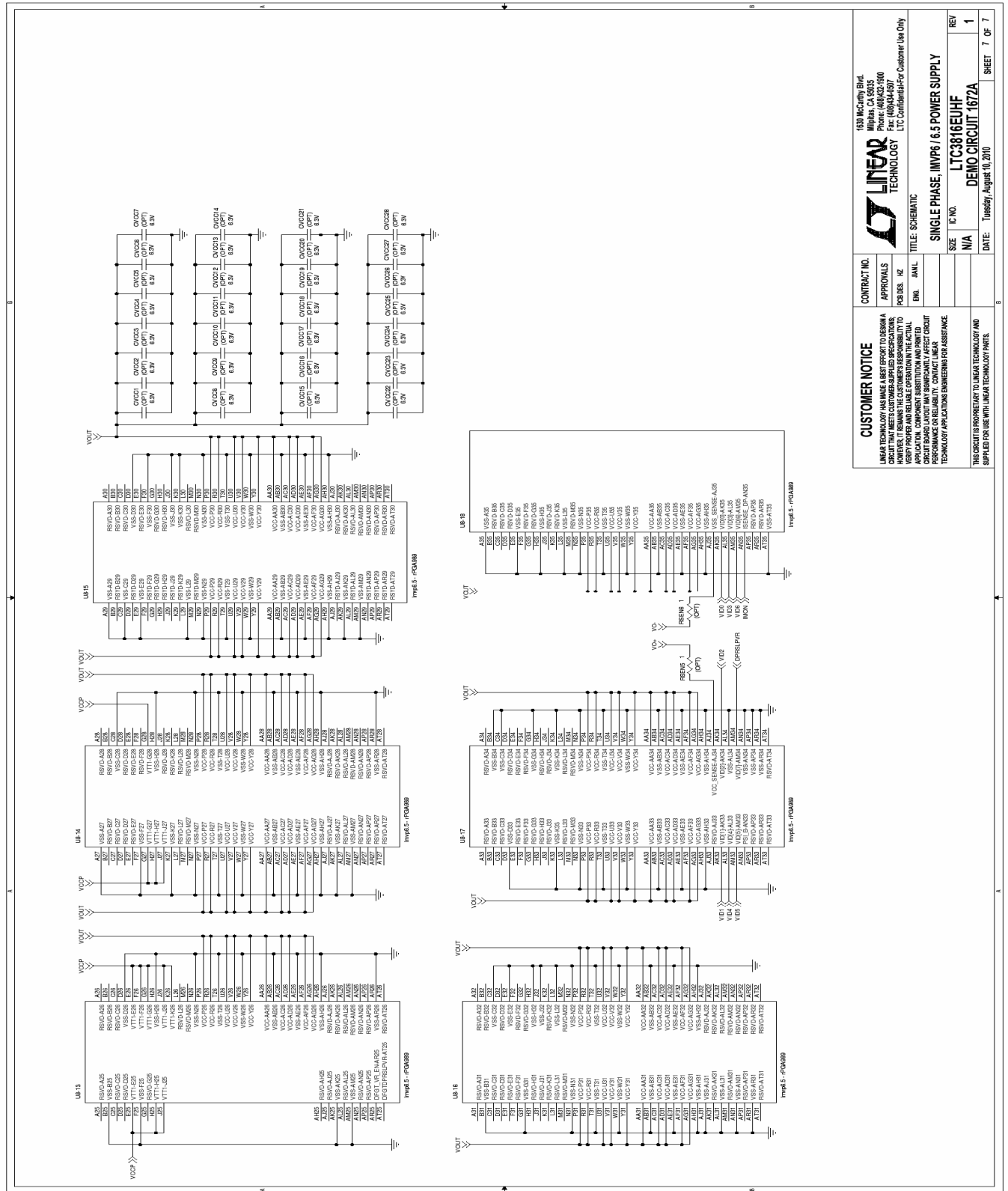
THIS CIRCUIT IS PROVIDED TO YOU AS A DEMO CIRCUIT. IT IS NOT INTENDED FOR PRODUCTION USE. THE PERFORMANCE OF THIS CIRCUIT IS NOT GUARANTEED. THE CUSTOMER IS RESPONSIBLE FOR THE PERFORMANCE OF THIS CIRCUIT. THE CUSTOMER IS RESPONSIBLE FOR THE PERFORMANCE OF THIS CIRCUIT.





CUSTOMER NOTICE LINEAR TECHNOLOGY MAKES A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER SPECIFICATIONS. CUSTOMERS MUST VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD MANUFACTURING VARIATIONS MAY AFFECT PERFORMANCE OR RELIABILITY. CONTACT LINEAR TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE.		CONTRACT NO. APPROVALS PCB RES. #2 ENL. JANIL	
LINEAR TECHNOLOGY 1638 McCarty Blvd. Milpitas, CA 95025 Phone: (408)432-9900 Fax: (408)432-9999 E-mail: CustomerSupport@linear.com LTC-CompanionForCustomerUseOnly		TITLE: SCHEMATIC	
SINGLE PHASE, INVP6 / 6.5 POWER SUPPLY		SIZE	REV
LTC3816EUHF		N/A	1
DEMO CIRCUIT 1672A		DATE: Tuesday, August 10, 2010	SHEET 6 OF 7

LTC 3816 EUHF



CUSTOMER NOTICE		CONTRACT NO.	APPROVALS	REV
LINEAR TECHNOLOGY HAS MADE A BEST EFFORT TO DESIGN A PROPER AND RELIABLE OPERATION IN THE ACTUAL PERFORMANCE OF RELIABILITY. CONTACT LINEAR TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE.		PER DES.	HZ	1
		ENG.	HWL	N/A
		TITLE: SCHEMATIC	DATE: Tuesday, August 10, 2010	SHEET 7 OF 7
		SINGLE PHASE, INV6 / 6.5 POWER SUPPLY		
		LTC3816EUHF		
		DEMO CIRCUIT 1672A		

LINEAR TECHNOLOGY HAS MADE A BEST EFFORT TO DESIGN A PROPER AND RELIABLE OPERATION IN THE ACTUAL PERFORMANCE OF RELIABILITY. CONTACT LINEAR TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE. THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.		1639 McCarty Blvd. Milpitas, CA 95025 Tel: (415) 964-8000 Fax: (415) 964-8927 L.T.C. Confidential-For Customer Use Only
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