REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
-	3	PRODUCTION	C. MAYOTT	01/30/2014

J1
DC590

VUNREG
VCCIO
CS
SCK/SCL
MOSI/SDA
MISO
EEVCC
EESDA
EESCL
EEGND
GPIO
GND
GND
GND

SVDD3V0

JP1
PD
RUN
SHDN

10 R41
10 R42
PD_ALT
(TO PAGE 4)

R35 10 CS_FTDI
R39 OPT CS_ALT
R34 10 SCK_FTDI
R38 OPT SCK_ALT
R32 10 SDI_FTDI
R36 OPT SDI_ALT
R33 10 SDO_FTDI
R37 OPT SDO_ALT
R31 10 PD_ALT
TO PAGE 4

DIGITAL INPUTS [DA0..DA15] AND [DB0..DB15] FROM PAGE 4

DAP0 DAP1 DAP2 DAP3 DAP4 DAP5 DAP6 DAP7 DAP8 DAP9 DAP10 DAP11 DAP12 DAP13 DAP14 DAP15

E8 FSADJ
E9 REFIO
R45 499
C40 10uF

R63 OPT 0402
R62 OPT 0402
R61 50 0402
R44 50 0402
R57 50 0402

U1*

DAN0 DAP0 … DAN15 DAP15
PD CS SCK SDI SDO SVDD
FSADJ M2
REFIO M1
IOUTP H1
IOUTN J1
DCKOP J8
DCKON J7
TSTP TSTN CKP CKN

R47 50 0402
R23 OPT 0402
R48 50 0402
R24 OPT 0402
R40 50 0402
R43 OPT 0402
R46 50 0402
R25 OPT 0402
R58 50 0402
R60 50 0402
R59 50 0402
R28 OPT 0402
R27 OPT 0402

J6 IOUTPB
J5 IOUTNB

DCKIP J10
DCKIN J9
(FROM PAGE 4)

DCKOP
DCKON
(T0 PAGE 4)

J2
TRIG N
TRIGGER_N
TRIGGER_P
(T0 PAGE 4)

J3
TRIG P

E10 TSTP
E11 TSTN

J4
CK
L8 1nH
C66 1pF NP0
C65 OPT 0402
C47 10pF 0201 COG

T1
ANAREN XINGER
GND
IN
GND

C41 100pF 0201 COG
R29 49.9 0201 1%
C43 0.01uF 0402 X5R
R26 49.9 0201 1%
C42 100pF 0201 COG

NOTES:

1. ALL RESISTORS ARE SIZE 0402, U.O.N.
2. REFER TO PAGE 4 FOR LTC2000 POWER CONNECTIONS.

*ASSEMBLY TABLE

ASSY	U1
-A	LTC2000IY-16
-B	LTC2000IY-14
-C	LTC2000IY-11
-D	LTC2000AIY-16
-E	LTC2000AIY-14
-F	LTC2000AIY-11

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 TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE.

THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.

APPROVALS

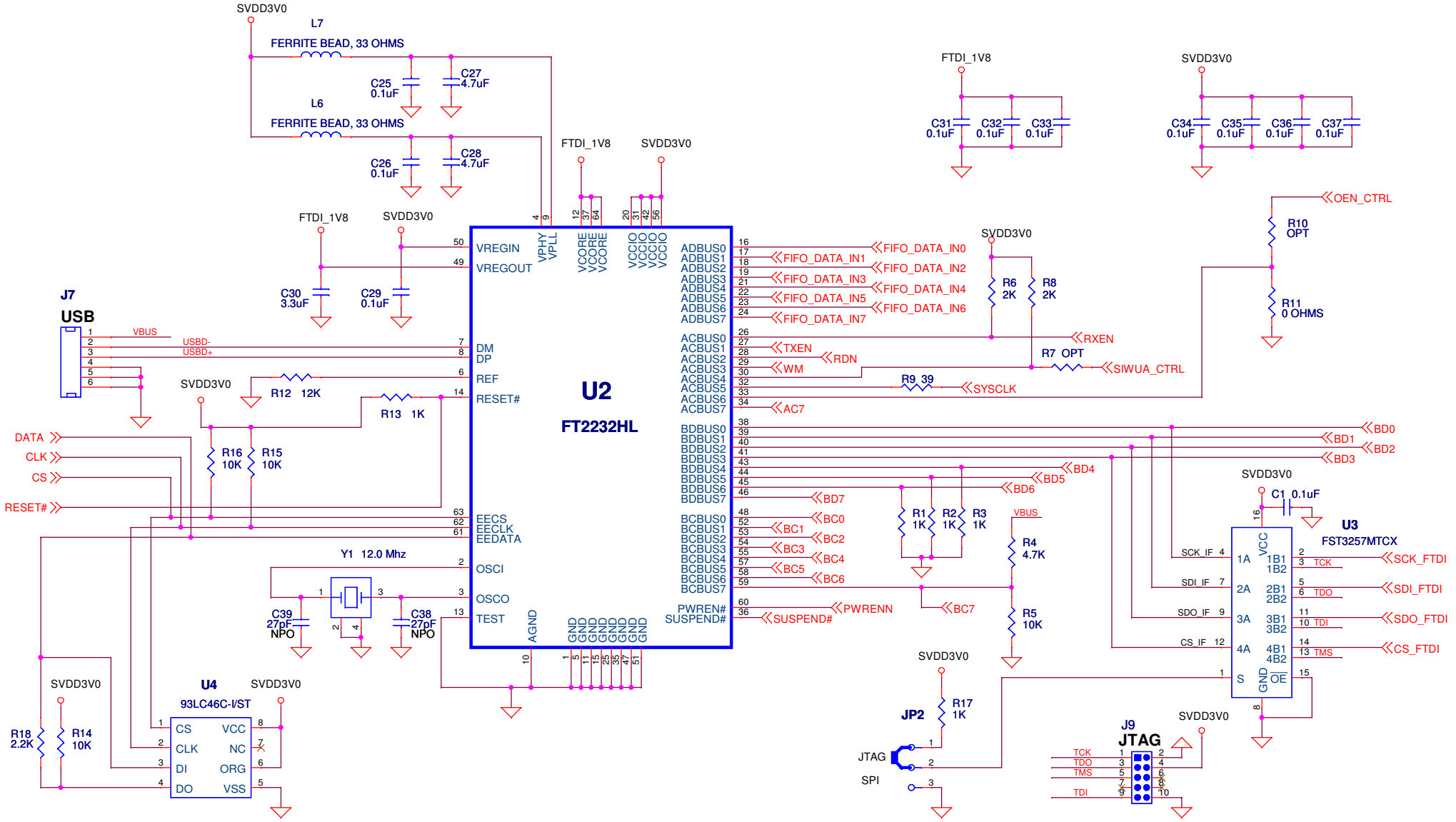
PCB DES.	M. HAWKINS
APP ENG.	C. MAYOTT

SCALE = NONE

LINEAR TECHNOLOGY
1630 McCarthy Blvd.
Milpitas, CA 95035
Phone: (408)432-1900 www.linear.com
Fax: (408)434-0507

TITLE: SCHEMATIC
LTC2000 HIGH SPEED DAC

SIZE N/A | IC NO. LTC2000-X FAMILY | REV. 3
DEMO CIRCUIT 2085A
DATE: 01/30/2014 | SHEET 1 OF 4



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 TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE.

THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.

APPROVALS

PCB DES.	M. HAWKINS
APP ENG.	C. MAYOTT

SCALE = NONE

LINEAR TECHNOLOGY

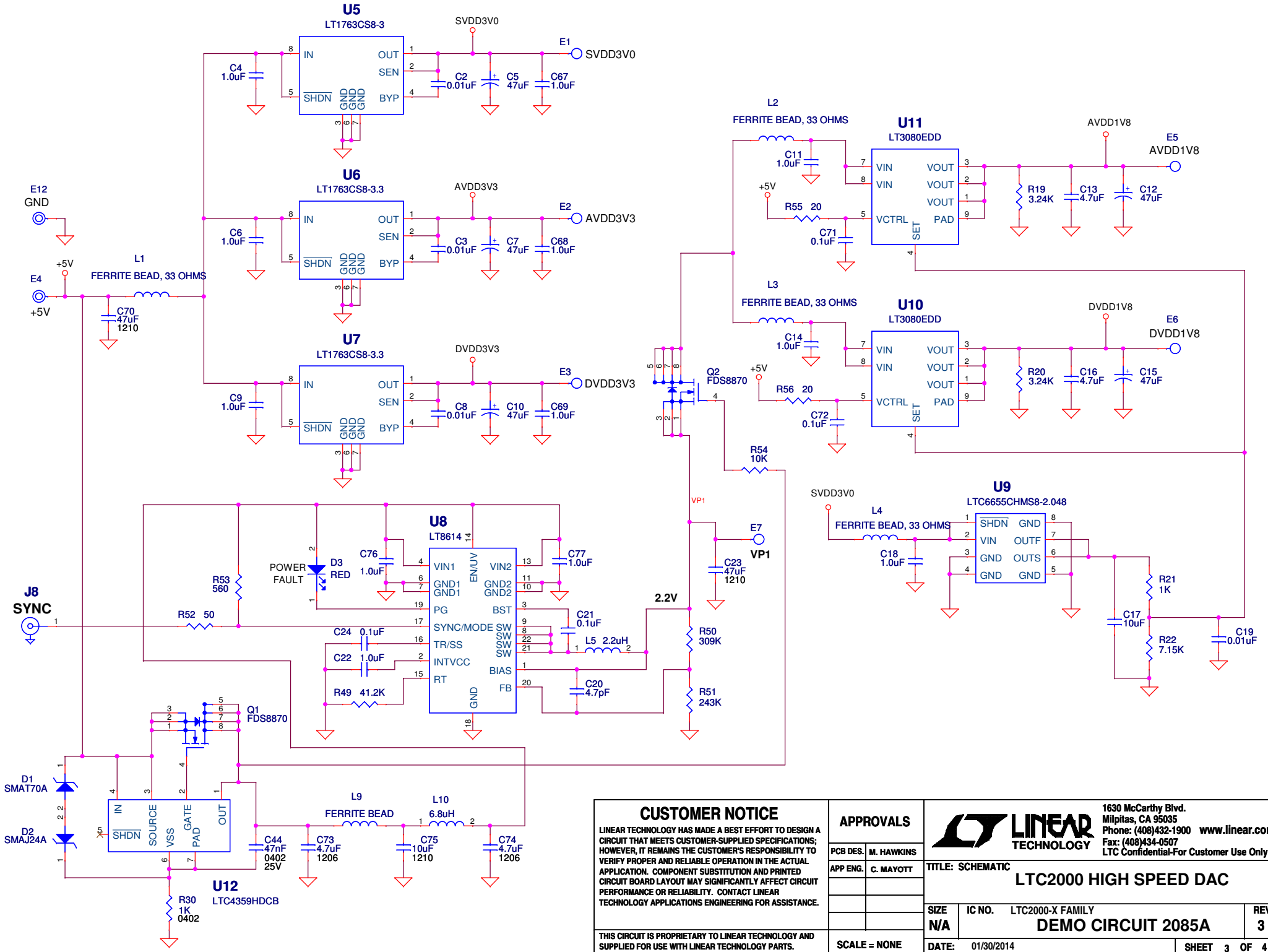
1630 McCarthy Blvd.
Milpitas, CA 95035
Phone: (408)432-1900 www.linear.com
Fax: (408)434-0507

TITLE: SCHEMATIC

LTC2000 HIGH SPEED DAC

SIZE	IC NO. LTC2000-X FAMILY	REV.
N/A	DEMO CIRCUIT 2085A	3

DATE: 01/30/2014



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 TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE.

THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.

APPROVALS	
PCB DES.	M. HAWKINS
APP ENG.	C. MAYOTT

SCALE = NONE

LINEAR TECHNOLOGY
1630 McCarthy Blvd.
Milpitas, CA 95035
Phone: (408)432-1900 www.linear.com
Fax: (408)434-0507

TITLE: SCHEMATIC

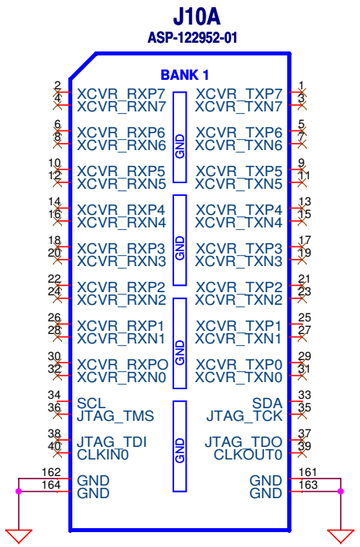
LTC2000 HIGH SPEED DAC

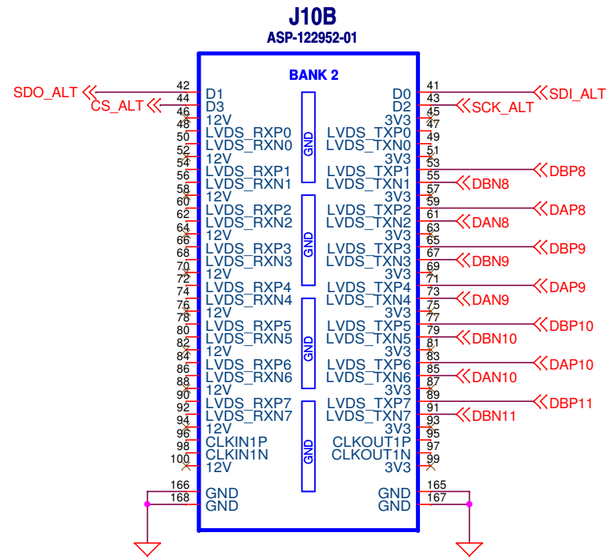
SIZE	IC NO.	REV.
N/A	LTC2000-X FAMILY DEMO CIRCUIT 2085A	3

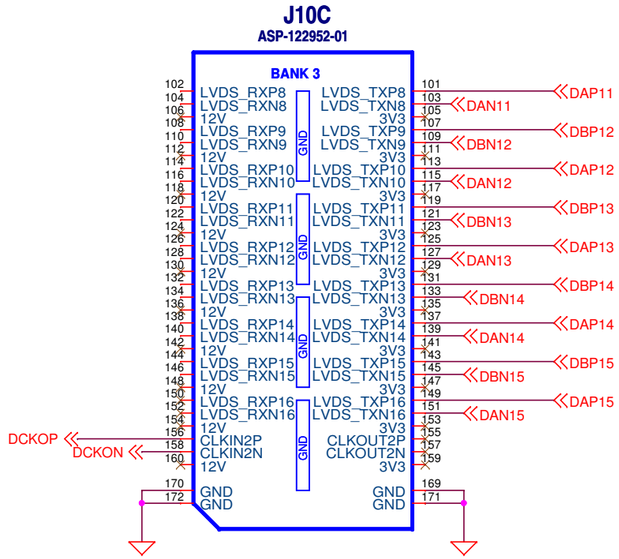
DATE: 01/30/2014

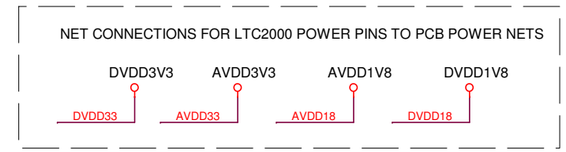
SHEET 3 OF 4

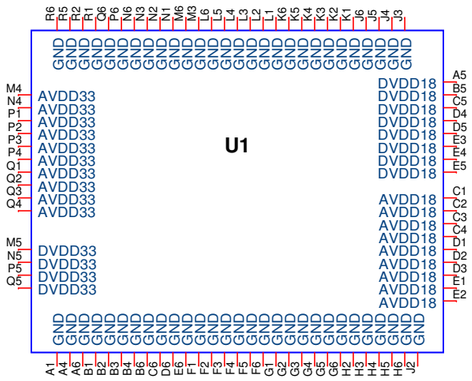
HSMC CONNECTORS - MEZZANINE SIDE



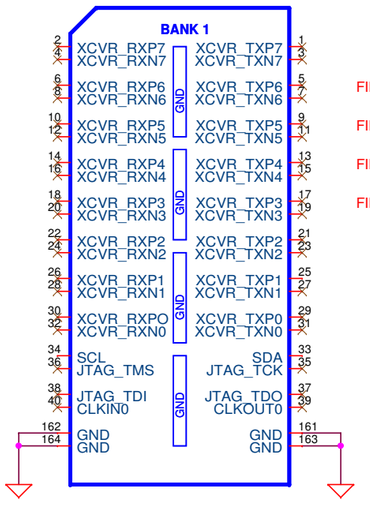


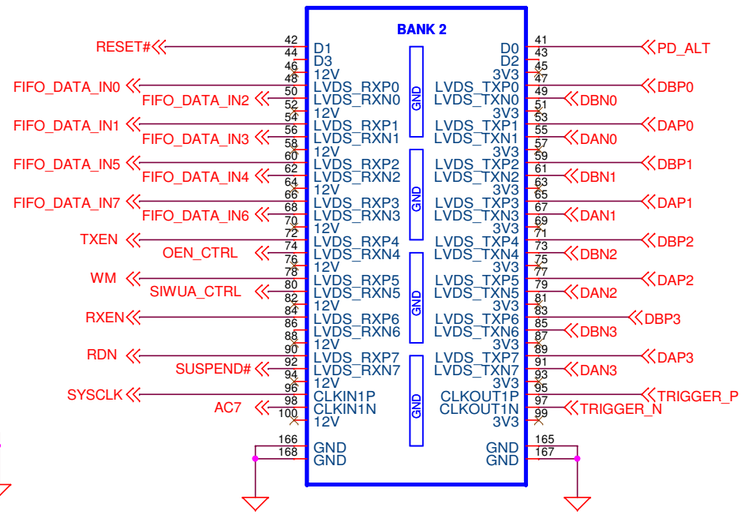


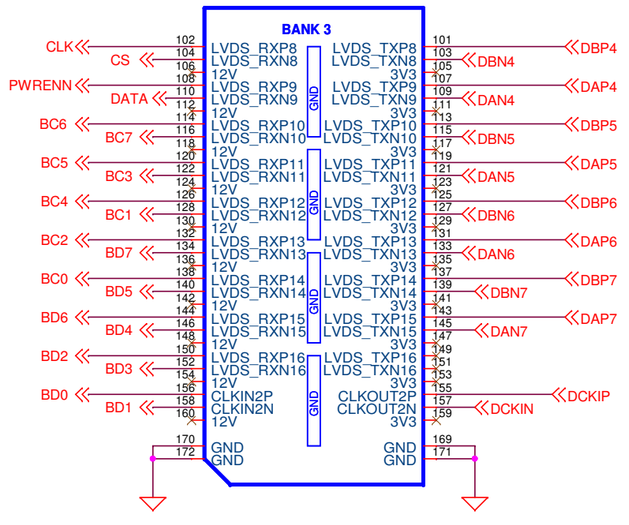




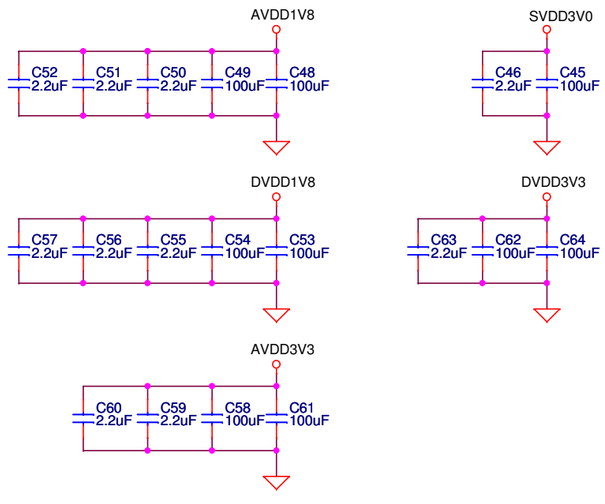
LTC2000 POWER CONNECTIONS







LTC2000 POWER BYPASS CAPACITORS



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 TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE.

APPROVALS	
PCB DES.	M. HAWKINS
APP ENG.	C. MAYOTT

SCALE = NONE

LINEAR TECHNOLOGY
1630 McCarthy Blvd.
Milpitas, CA 95035
Phone: (408)432-1900 www.linear.com
Fax: (408)434-0507
LTC Confidential-For Customer Use Only

TITLE: SCHEMATIC

LTC2000 HIGH SPEED DAC

SIZE	IC NO.	REV.
N/A	LTC2000-X FAMILY DEMO CIRCUIT 2085A	3

DATE: 01/30/2014