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DEMO MANUAL DC1082A

LTC1407A, LTC1403A, LTC1407A-1, LTC1403A-1, LTC2356-14, LTC2355-14, 14-Bit, 3.5Msps/3Msps/2.8Msps SAR ADCs

DESCRIPTION

Demonstration circuit 1082A features the LTC®1407 family of SAR ADCs. This quick start guide will focus on DC1082A-A which uses the LTC1407A-1, a bipolar, 2-channel, 14-bit, simultaneous sampling ADC. Total throughput is 3Msps; 1.5Msps per channel, with a typical channel-to-channel aperture skew of 200ps. Other family members have 12 bits (LTC1403, LTC1407, LTC2355-12 and LTC2356-12) or one channel (LTC1403, LTC1403A, LTC2355-14 and LTC2356-14). The LTC1407 family also has unipolar and bipolar versions. See Table 1 for the specific version of DC1082A that best suits your application. DC1082A demonstrates the AC performance of the LTC1407 family in conjunction with the DC890 data collection board and PScope™ software. Alternatively, by connecting DC1082A into a customer application the performance of the LTC1407 family member can be evaluated directly in that circuit.

Design files for this circuit board are available at http://www.linear.com/demo

DC1082A CONFIGURATION SUMMARY

VERSION	PART	NUMBER OF BITS	INPUT RANGE	SAMPLE RATE	NUMBER OF CHANNELS
DC1082A-A	LTC1407ACMSE-1	14	±1.25V	3Msps (1.5Msps/Ch)	2
DC1082A-B	LTC1407ACMSE	14	0V to 2.5V	3Msps (1.5Msps/Ch)	2
DC1082A-C	LTC1403ACMSE-1	14	±1.25V	2.8Msps	1
DC1082A-D	LTC1403ACMSE	14	0V to 2.5V	2.8Msps	1
DC1082A-E	LTC2356CMSE-14	14	±1.25V	3.5Msps	1
DC1082A-F	LTC2355CMSE-14	14	0V to 2.5V	3.5Msps	1

QUICK START PROCEDURE

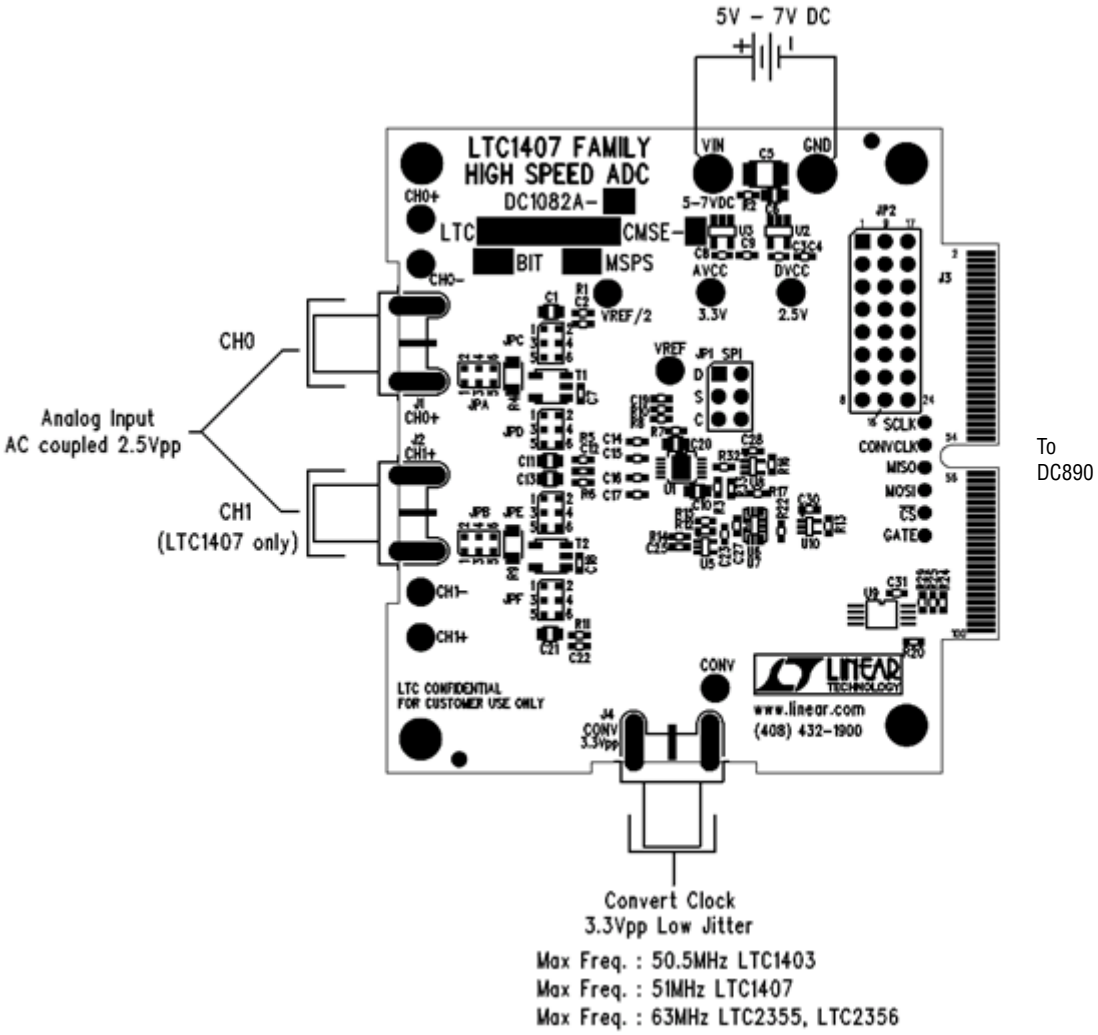


Figure 1. DC1082A Connection Diagram

- Connect DC1082A to a DC890 USB high speed data collection board, using connector J3.
- Connect DC890 to a host PC with a standard USB A/B cable.
- Apply 5V to 7V DC to the VIN and GND terminals.
- Apply a low jitter signal source to J1 (CH0) and J2 (CH1), if applicable. Both J1 and J2, if included, are terminated with 50Ω to ground.
- As a clock source, apply a low jitter 51MHz (50.5MHz for LTC1403, 63MHz for LTC2355 and LTC2356) $3.3V_{P-P}$ sine wave or square wave to connector J4. Note that J4 has a 50Ω termination resistor to ground.
- Run the PScope software (Pscope.exe version K46, or later) supplied with the DC890, or download it from www.linear.com/software.

Complete software documentation is available from the Help menu. Updates can be downloaded from the Tools menu. Check for updates periodically, as new features may be added.

SOFTWARE CONFIGURATION

The PScope software should recognize DC1082A and configure itself automatically.

Click the Collect button (See Figure 2) to begin acquiring data. Depending on which board was previously used by PScope, it may be necessary to press Collect a second time. The Collect button then changes to Pause, which can be used to pause data acquisition.

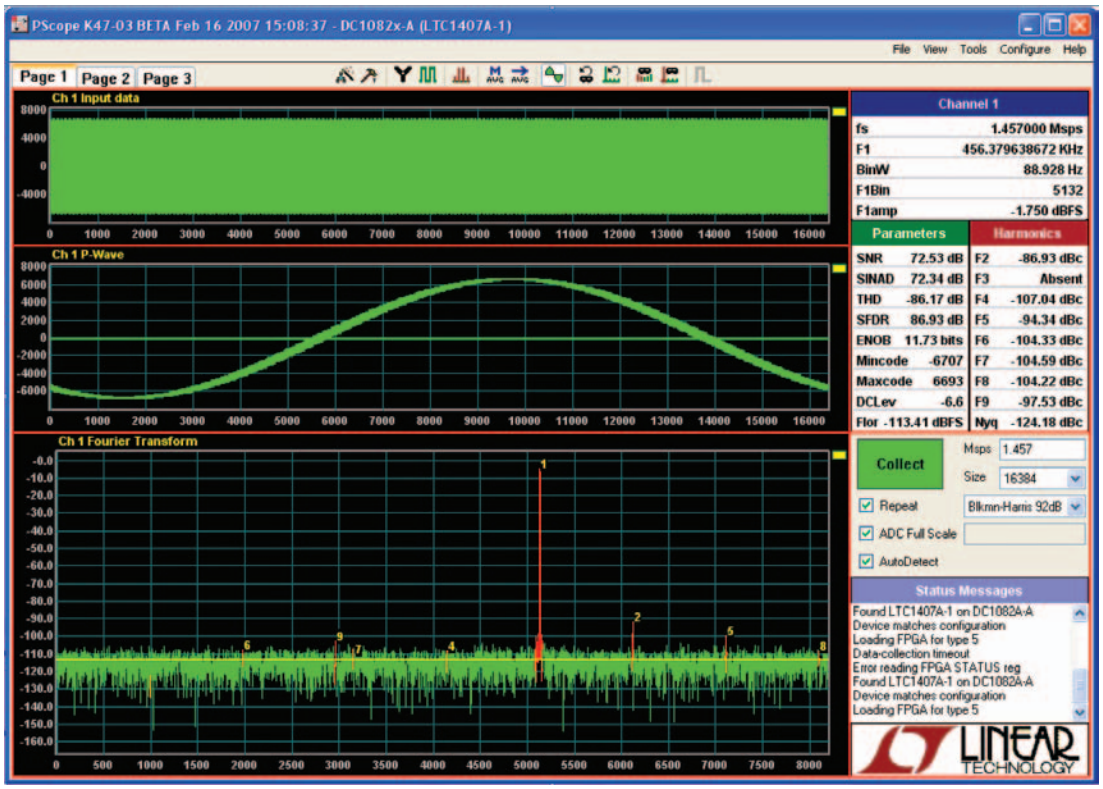


Figure 2. DC1082A Screenshot

HARDWARE SETUP

SIGNAL CONNECTIONS

J1 to J2: SMA connectors for CH0 and CH1 are differential inputs. These inputs have 50Ω termination resistors. Limit input voltage swings to $2.5V_{P-P}$. For optimum performance, the input should be band limited to the frequencies of interest. These signals are capacitively coupled to the ADC inputs, as shipped from the factory. If the DC level of the signal applied is important, JPC-JPF must be properly configured (see schematic for details).

J3: DC890 Interface. Connect to DC890.

J4: Conversion Clock Input. This input has a 50Ω termination resistor, and is intended to be driven by a low jitter, $3.3V_{P-P}$ sine or square wave. To achieve the full AC performance of this part, the clock jitter should be kept under 2ps. This input is capacitively coupled so that the input clock can be either 0V to 3.3V, or ±1.65V so that level shifting is not required. To run at maximum conversion rate, apply a 51MHz signal for the LTC1407, or 50.5MHz signal for the LTC1403, to this input. For the LTC2355 and LTC2356, apply a 63MHz signal to achieve the maximum conversion rate.

GROUNDING AND POWER CONNECTION

Connect a 5V to 7V power supply to the VIN and GND turret posts. For optimum performance, this supply should be floating with respect to any signal

PARTS LIST

ITEM	QTY	REFERENCE	PART DESCRIPTION	MANUFACTURER/PART NUMBER
Required Circuit Components				
1	9	C2, C7, C12, C23, C25, C27, C28, C30, C31	CAP., X7R, 0.1µF, 16V, 10%, 0603	AVX, 0603YC104KAT
2	2	C8, C3	CAP., X7R, 0.01µF, 50V, 10%, 0603	AVX, 06035C103KAT
3	2	C4, C9	CAP., X5R, 1µF, 16V, 20%, 0603	AVX, 0603YD105MAT
4	1	C19	CAP., X7R, 1µF, 16V, 20%, 0603	TDK, C1608X7R1C105M
5	2	C1, C11	CAP., X7R, 1.0µF, 10V, 20%, 0805	AVX, 0805ZC105MAT2A
6	1	C5	CAP., X5R, 100µF, 6.3V, 20%, 1210	AVX, 12106D107MAT
7	3	C6, C10, C20	CAP., X5R, 10µF, 6.3V, 20%, 0805	AVX, 08056D106MAT
8	2	C14, C15	CAP., C0G, 47pF, 50V, 10%, 0603	AVX, 06035A470KAT
9	2	E1-E2	TESTPOINT, TURRET, 0.094"	MILL-MAX, 2501-2-00-80-00-00-07-0
10	7	E3-E6, E8, E9, E11	TESTPOINT, TURRET, 0.061"	MILL-MAX, 2308-2-00-80-00-00-07-0
11	1	JP1	JMP, 2×3, 0.100"	SAMTEC, TSW-103-07-L-D
12	2	J1, J4	CON., SMA, 50Ω, EDGE-LAUNCH	CONNEX, 132357
13	2	R1, R5	RES., CHIP, 10k, 1/16W, 5%, 0603	AAC, CR16-103JM
14	1	R2	RES., CHIP, 10, 1/16W, 5%, 0603	AAC, CR16-100JM
15	1	R3	RES., CHIP, 1.0, 1/16W, 5%, 0603	AAC, CR16-1R0JM
16	1	R4	RES., CHIP, 49.9, 1/4W, 1%, 1206	AAC, CR18-49R9FM
17	2	R7, R14	RES., CHIP, 49.9, 1/16W, 1%, 0603	AAC, CR16-49R9FM
18	5	R8, R10, R24, R25, R29	RES., CHIP, 4.99k, 1/16W, 1%, 0603	AAC, CR16-4991FM
19	3	R12, R15, R22	RES., CHIP, 1k, 1/16W, 5%, 0603	AAC, CR16-102JM
20	3	R13, R16, R17	RES., CHIP, 33, 1/16W, 5%, 0603	AAC, CR16-330JM
21	1	R20	RES., CHIP, 4.7k, 1/16W, 5%, 0603	AAC, CR16-472JM
22	2	R32, R33	RES., CHIP, 510, 1/16W, 5%, 0603	AAC, CR16-511JM

PARTS LIST

ITEM	QTY	REFERENCE	PART DESCRIPTION	MANUFACTURER/PART NUMBER
23	1	U2	I.C., LTC1844ES5-2.5, TSOT-23, S5	LINEAR TECHNOLOGY, LTC1844ES5-2.5#PBF
24	1	U3	I.C., LTC1844ES5-3.3, TSOT-23, S5	LINEAR TECHNOLOGY, LTC1844ES5-3.3#PBF
25	3	U5, U8, U10	I.C., ULP INVERTER, SC70-5	FAIRCHILD, NC7SVU04P5X_NL
26	1	U6	I.C., SINGLE D, FLIP FLOP, US8	ON SEMI., NL17SZ74USG
27	0	U7 (OPT.)	I.C., NC7SZ66P5X, SC70-5	
28	1	U9	I.C., 24LC025, TSSOP-8	MICROCHIP, 24LC025-I /ST (PbF)
29	4	(STAND-OFF)	STAND-OFF, NYLON 0.25"	KEYSTONE, 8831(SNAP-ON)
DC1082A-A Required Circuit Components				
1	1	DC1082A	DC1082A GENERAL BOM	
2	2	C13, C21	CAP., X7R, 1.0µF, 10V, 20%, 0805	AVX, 0805ZC105MAT2A
3	2	C16, C17	CAP., C0G, 47pF, 50V, 10%, 0603	AVX, 06035A470KAT
4	2	C18, C22	CAP., X7R, 0.1µF, 16V, 10%, 0603	AVX, 0603YC104KAT
5	2	T1, T2	TRANSFORMER	M/A-COM, MABAES0060
6	1	JP2	SOLDER JUMPER WIRE 22 AWG FROM PIN 8 TO PIN 16 (SEE ASSY DRAWING)	
7	1	J2	CON., SMA, 50Ω, EDGE-LAUNCH	CONNEX, 132357
8	2	E7, E10	TESTPOINT, TURRET, 0.061"	MILL-MAX, 2308-2-00-80-00-00-07-0
9	1	R9	RES., CHIP, 49.9, 1/4W, 1%, 1206	AAC, CR18-49R9FM
10	2	R6, R11	RES., CHIP, 10K, 1/16W, 5%, 0603	AAC, CR16-103JM
11	2	JPA: (3-5), (4-6)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
12	2	JPB: (3-5), (4-6)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
13	2	JPC: (1-3), (2-4)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
14	2	JPD: (3-5), (4-6)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
15	2	JPE: (1-3), (2-4)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
16	2	JPF: (3-5), (4-6)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
10	1	U1	I.C., LTC1407ACMSE-1 MSE	LINEAR TECHNOLOGY, LTC1407ACMSE-1#PBF
DC1082A-B Required Circuit Components				
1	1	DC1082A	DC1082A GENERAL BOM	
2	2	C13, C21	CAP., X7R, 1.0µF, 10V, 20%, 0805	AVX, 0805ZC105MAT2A
3	2	C16, C17	CAP., C0G, 47pF, 50V, 10%, 0603	AVX, 06035A470KAT
4	2	C18, C22	CAP., X7R, 0.1µF, 16V, 10%, 0603	AVX, 0603YC104KAT
5	0	T1, T2 (OPT.)	TRANSFORMER	
6	1	JP2	SOLDER JUMPER WIRE 22 AWG FROM PIN 8 TO PIN 16 (SEE ASSY DRAWING)	
7	1	J2	CON., SMA, 50Ω, EDGE-LAUNCH	CONNEX, 132357
8	2	E7, E10	TESTPOINT, TURRET, 0.061"	MILL-MAX, 2308-2-00-80-00-00-07-0
9	1	R9	RES., CHIP, 49.9, 1/4W, 1%, 1206	AAC, CR18-49R9FM
10	2	R6, R11	RES., CHIP, 10k, 1/16W, 5%, 0603	AAC, CR16-103JM
11	2	JPA: (3-5), (4-6)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
12	2	JPB: (3-5), (4-6)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
13	2	JPC: (1-3), (2-4)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
14	1	JPD: (3-4)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M

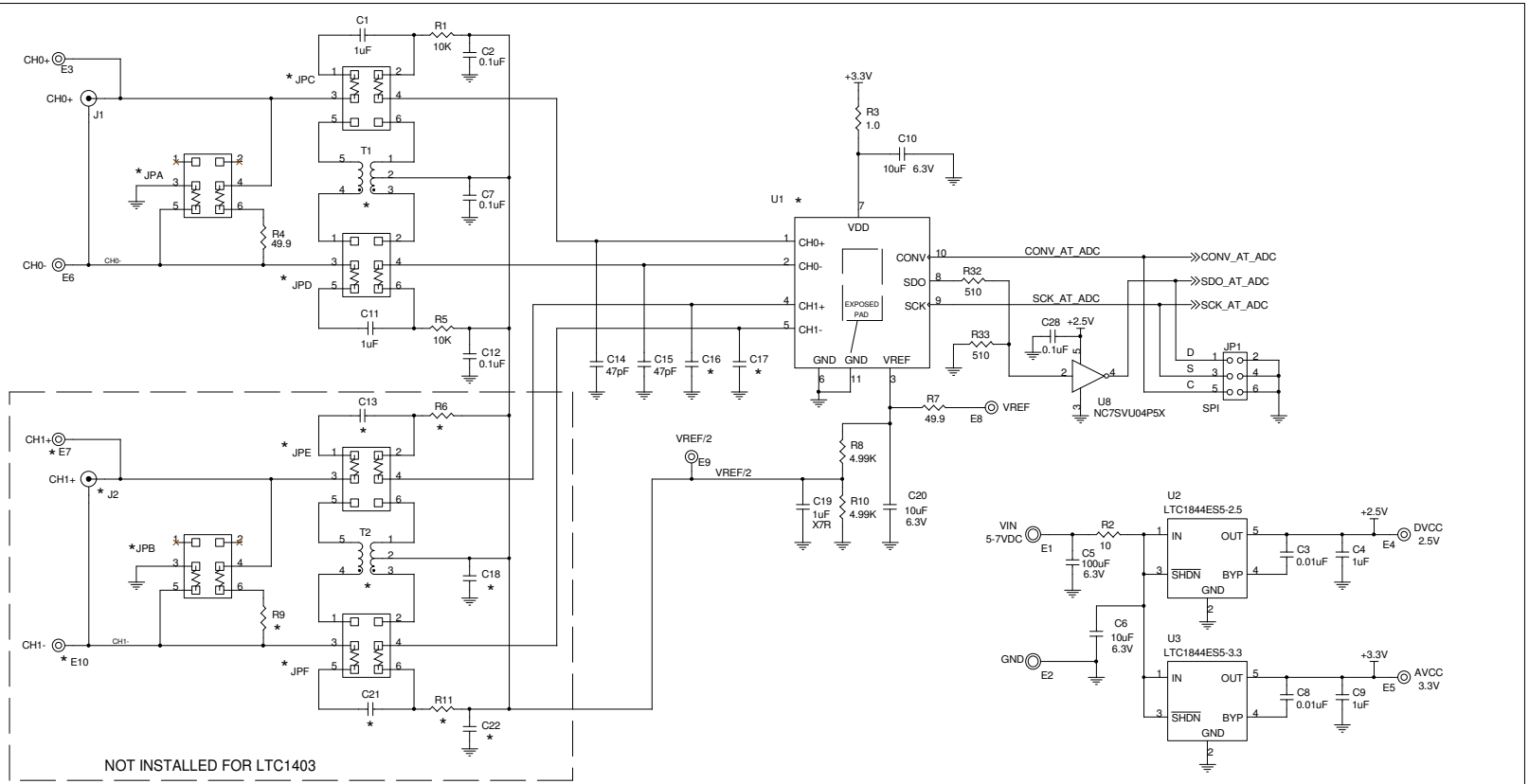
PARTS LIST

ITEM	QTY	REFERENCE	PART DESCRIPTION	MANUFACTURER/PART NUMBER
15	2	JPE: (1-3), (2-4)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
16	1	JPF: (3-4)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
10	1	U1	I.C., LTC1407ACMSE MSE	LINEAR TECHNOLOGY, LTC1407ACMSE#PBF
DC1082A-C Required Circuit Components				
1	1	DC1082A	DC1082A GENERAL BOM	
2	0	C13, C21 (NOT INSTALLED)	CAP., 0805	
3	2	C16, C17	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
4	0	C18, C22 (NOT INSTALLED)	CAP., 0603	
5	1	T1	TRANSFORMER	M/A-COM, MABAES0060
6	0	T2 (NOT INSTALLED)	TRANSFORMER	
7	1	JP2	SOLDER JUMPER WIRE 22 AWG FROM PIN 16 TO PIN 24 (SEE ASSY DRAWING)	
8	0	J2 (NOT INSTALLED)		
9	0	E7, E10 (NOT INSTALLED)	TESTPOINT, TURRET, 0.061"	
10	0	R9 (NOT INSTALLED)	RES., CHIP, 1206	
11	0	R6, R11 (NOT INSTALLED)	RES., CHIP, 0603	
12	2	JPA: (3-5), (4-6)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
13	0	JPB: (OPEN)		
14	2	JPC: (1-3), (2-4)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
15	1	JPD: (3-5), (4-6)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
16	0	JPE: (OPEN)		
17	0	JPF: (OPEN)		
18	1	U1	I.C., LTC1403ACMSE-1 MSE	LINEAR TECHNOLOGY, LTC1403ACMSE-1#PBF
DC1082A-D Required Circuit Components				
1	1	DC1082A	DC1082A GENERAL BOM	
2	0	C13, C21 (NOT INSTALLED)	CAP., 0805	
3	2	C16, C17	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
4	0	C18, C22 (NOT INSTALLED)	CAP., 0603	
5	0	T1 (OPT.)	TRANSFORMER	
6	0	T2 (NOT INSTALLED)	TRANSFORMER	
7	1	JP2	SOLDER JUMPER WIRE 22 AWG FROM PIN 16 TO PIN 24 (SEE ASSY DRAWING)	
8	0	J2 (NOT INSTALLED)	CON., SMA, 50Ω, EDGE-LAUNCH	
9	0	E7, E10 (NOT INSTALLED)	TESTPOINT, TURRET, 0.061"	
10	0	R9 (NOT INSTALLED)	RES., CHIP, 1206	
11	0	R6, R11 (NOT INSTALLED)	RES., CHIP, 0603	
12	2	JPA: (3-5), (4-6)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
13	0	JPB: (OPEN)		
14	2	JPC: (1-3), (2-4)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
15	1	JPD: (3-4)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
16	0	JPE: (OPEN)		
17	0	JPF: (OPEN)		
18	1	U1	I.C., LTC1403ACMSE MSE	LINEAR TECHNOLOGY, LTC1403ACMSE#PBF

PARTS LIST

ITEM	QTY	REFERENCE	PART DESCRIPTION	MANUFACTURER/PART NUMBER
DC1082A-E Required Circuit Components				
1	1	DC1082A	DC1082A GENERAL BOM	
2	0	C13, C21 (NOT INSTALLED)	CAP., 0805	
3	2	C16, C17	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
4	0	C18, C22 (NOT INSTALLED)	CAP., 0603	
5	1	T1	TRANSFORMER	M/A-COM, MABAES0060
6	0	T2 (NOT INSTALLED)	TRANSFORMER	
7	1	JP2	SOLDER JUMPER WIRE 22 AWG FROM PIN 16 TO PIN 24 (SEE ASSY DRAWING)	
8	0	J2 (NOT INSTALLED)		
9	0	E7, E10 (NOT INSTALLED)	TESTPOINT, TURRET, 0.061"	
10	0	R9 (NOT INSTALLED)	RES., CHIP, 1206	
11	0	R6, R11 (NOT INSTALLED)	RES., CHIP, 0603	
12	2	JPA: (3-5), (4-6)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
13	0	JPB: (OPEN)		
14	2	JPC: (1-3), (2-4)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
15	1	JPD: (3-5), (4-6)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
16	0	JPE: (OPEN)		
17	0	JPF: (OPEN)		
18	1	U1	I.C., LTC2356CMSE-14, MSE	LINEAR TECHNOLOGY, LTC2356CMSE-14#PBF
DC1082A-F Required Circuit Components				
1	1	DC1082A	DC1082A GENERAL BOM	
2	0	C13, C21 (NOT INSTALLED)	CAP., 0805	
3	2	C16, C17	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
4	0	C18, C22 (NOT INSTALLED)	CAP., 0603	
5	0	T1 (OPT.)	TRANSFORMER	
6	0	T2 (NOT INSTALLED)	TRANSFORMER	
7	1	JP2	SOLDER JUMPER WIRE 22 AWG FROM PIN 16 TO PIN 24 (SEE ASSY DRAWING)	
8	0	J2 (NOT INSTALLED)	CON., SMA, 50Ω, EDGE-LAUNCH	
9	0	E7, E10 (NOT INSTALLED)	TESTPOINT, TURRET, 0.061"	
10	0	R9 (NOT INSTALLED)	RES., CHIP, 1206	
11	0	R6, R11 (NOT INSTALLED)	RES., CHIP, 0603	
12	2	JPA: (3-5), (4-6)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
13	0	JPB: (OPEN)		
14	2	JPC: (1-3), (2-4)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
15	1	JPD: (3-4)	RES., CHIP, 0, 1/16W, 0603	AAC, CJ06-000 M
16	0	JPE: (OPEN)		
17	0	JPF: (OPEN)		
18	1	U1	I.C., LTC2355CMSE-14 MSE	LINEAR TECHNOLOGY, LTC2355CMSE-14#PBF

SCHEMATIC DIAGRAM



* VERSION TABLE

Assembly Type	U1	Bits	Msps	Input Range	Channels	JPA	JPB	JPC	JPD	JPE	JPF	J2	JP2	E7, E10	T1	T2	C13, C21	C16, C17	C18, C22	R6, R11	R9
DC1082A-A	LTC1407ACMSE-1	14	3Msps (1.5Msps/Ch)	+/-1.25V	2	3-5	3-5	1-3	3-5	1-3	3-5	Installed	Jumper Wire Pin 8 to Pin 16	Installed	MABAE0060	MABAE0060	1uF	47pF	0.1uF	10K	49.9
						4-6	4-6	2-4	4-6	2-4	4-6										
DC1082A-B	LTC1407ACMSE	14	3Msps (1.5Msps/Ch)	0V - 2.5V	2	3-5	3-5	1-3	3-4	1-3	3-4	Installed			OPT.	OPT.					
						4-6	4-6	2-4		2-4											
DC1082A-C	LTC1403ACMSE-1	14	2.8Msps	+/-1.25V	1	3-5	OPEN	1-3	3-5	OPEN	OPEN	Not Installed	Jumper Wire Pin 16 to Pin 24	Not Installed	MABAE0060	Not Installed	Not Installed	0 OHM	Not Installed	Not Installed	Not Installed
						4-6	OPEN	2-4	4-6	OPEN	OPEN										
DC1082A-D	LTC1403ACMSE	14	2.8Msps	0V - 2.5V	1	3-5	OPEN	1-3	3-4	OPEN	OPEN	Not Installed			OPT.						
						4-6	OPEN	2-4		OPEN											
DC1082A-E	LTC2356CMSE-14	14	3.5Msps	+/-1.25V	1	3-5	OPEN	1-3	3-5	OPEN	OPEN	Not Installed	Jumper Wire Pin 16 to Pin 24	Not Installed	MABAE0060	Not Installed	Not Installed	0 OHM	Not Installed	Not Installed	Not Installed
						4-6	OPEN	2-4	4-6	OPEN	OPEN										
DC1082A-F	LTC2355CMSE-14	14	3.5Msps	0V - 2.5V	1	3-5	OPEN	1-3	3-4	OPEN	OPEN	Not Installed			OPT.						
						4-6	OPEN	2-4		OPEN											

Stuff 0 Ohm 0603 Resistors in Indicated Jumper Positions.

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.

CONTRACT NO.

APPROVALS	DATE
DRAWN June Wu	4/7/06
CHECKED	
APPROVED	
ENGINEER Guy Hoover	4/7/06
DESIGNER	

Wednesday, February 28, 2007

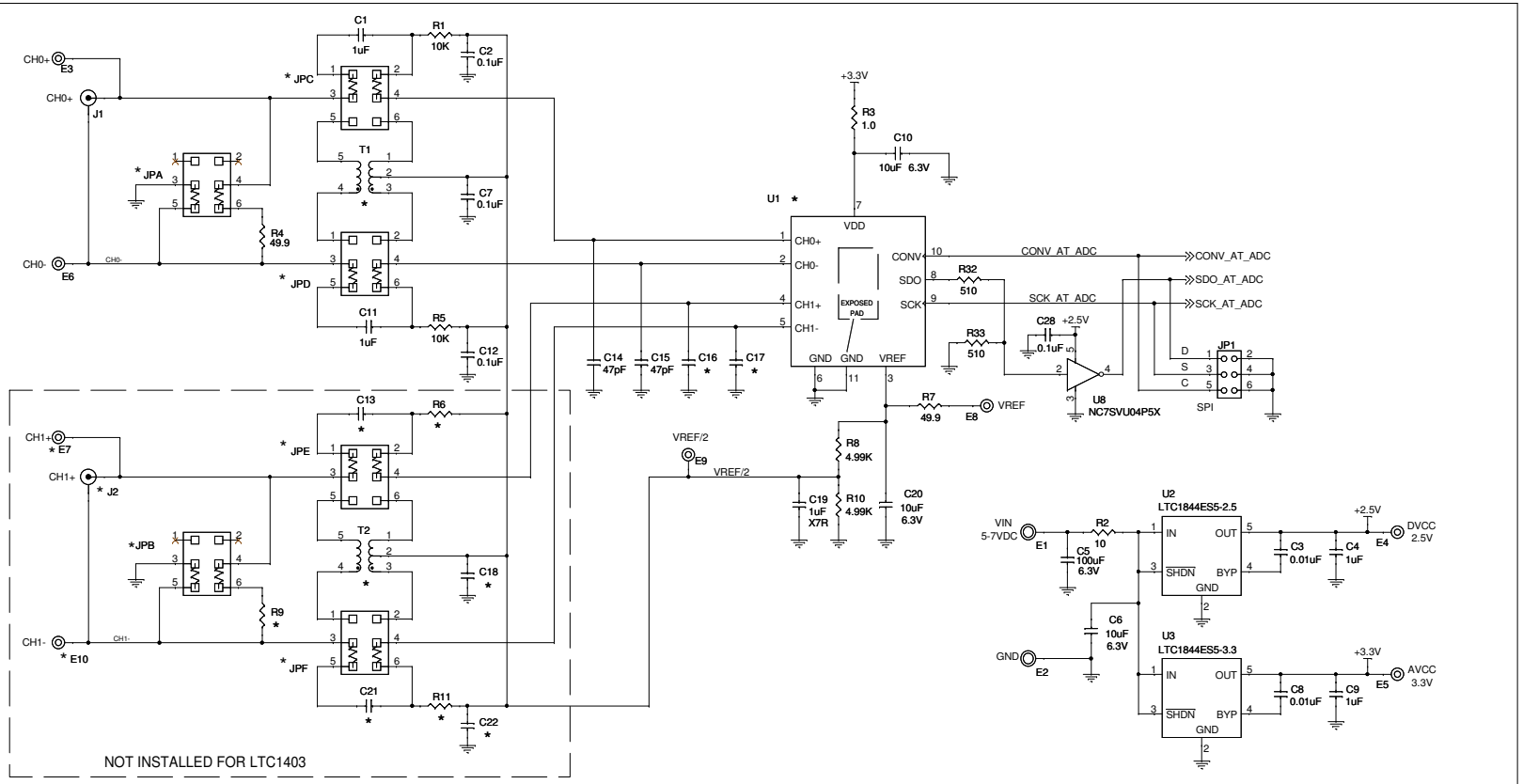
LINEAR TECHNOLOGY
1630 McCarthy Blvd.
Milpitas, CA 95035
Phone: (408)432-1900
Fax: (408)434-0507

TITLE: LTC1407 FAMILY HIGH SPEED ADC

SIZE	CAGE CODE	DWG NO	REV
		DC1082A	A

SCALE: | FILENAME: | SHEET 1 OF 2

Figure 3. LTC1407 Family High Speed ADC



* VERSION TABLE

Assembly Type	U1	Bits	Msps	Input Range	Channels	JPA	JPB	JPC	JPD	JPE	JPF	J2	JP2	E7, E10	T1	T2	C13, C21	C16, C17	C18, C22	R6, R11	R9
DC1082A-A	LTC1407ACMSE-1	14	3Msps (1.5Msps/Ch)	+/-1.25V	2	3-5	3-5	1-3	3-5	1-3	3-5	Installed	Jumper Wire Pin 8 to Pin 16	Installed	MABAE0060	MABAE0060	1uF	47pF	0.1uF	10K	49.9
						4-6	4-6	2-4	4-6	2-4	4-6										
DC1082A-B	LTC1407ACMSE	14	3Msps (1.5Msps/Ch)	0V - 2.5V	2	3-5	3-5	1-3	3-4	1-3	3-4	Installed			OPT.	OPT.					
						4-6	4-6	2-4		2-4											
DC1082A-C	LTC1403ACMSE-1	14	2.8Msps	+/-1.25V	1	3-5	OPEN	1-3	3-5	OPEN	OPEN	Not Installed	Jumper Wire Pin 16 to Pin 24	Not Installed	MABAE0060	Not Installed	Not Installed	0 OHM	Not Installed	Not Installed	Not Installed
						4-6	OPEN	2-4	4-6	OPEN	OPEN										
DC1082A-D	LTC1403ACMSE	14	2.8Msps	0V - 2.5V	1	3-5	OPEN	1-3	3-4	OPEN	OPEN	Not Installed			OPT.						
						4-6	OPEN	2-4		OPEN											
DC1082A-E	LTC2356CMSE-14	14	3.5Msps	+/-1.25V	1	3-5	OPEN	1-3	3-5	OPEN	OPEN	Not Installed	Jumper Wire Pin 16 to Pin 24	Not Installed	MABAE0060	Not Installed	Not Installed	0 OHM	Not Installed	Not Installed	Not Installed
						4-6	OPEN	2-4	4-6	OPEN	OPEN										
DC1082A-F	LTC2355CMSE-14	14	3.5Msps	0V - 2.5V	1	3-5	OPEN	1-3	3-4	OPEN	OPEN	Not Installed			OPT.						
						4-6	OPEN	2-4		OPEN											

Stuff 0 Ohm 0603 Resistors in Indicated Jumper Positions.

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

CONTRACT NO.

APPROVALS		DATE
DRAWN	June Wu	4/7/06
CHECKED		
APPROVED		
ENGINEER	Guy Hoover	4/7/06
DESIGNER		

Friday, March 08, 20

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TITLE
LTC1407 FAMILY
HIGH SPEED ADC

SIZE	CAGE CODE	DWG NO	REV
		DC1082A	A

SCALE: FILENAME: SHEET 1 OF 2

Figure 4. LTC1407 Family High Speed ADC

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