

STANFORD UNIVERSITY  
 U.S. DEPARTMENT OF ENERGY  
 STANFORD LINEAR ACCELERATOR CENTER  
 STANFORD, CA

MATERIAL LIST FOR: NLCTA  
 8-CH VARIABLE GAIN AMPLIFIER

ENGINEER:	B. ROSTER	DATE	APPROVED BY:	DATE				
DESIGNER:	C. YEE	6/21/2001						
DRAFTER:	VIEWLOGIC	6/21/2001						
CHECKER:	J. YU							
ITEM	QNTY	COMPONENT DESIGNATION	DESCRIPTION	STORES	PART NUM			
1	2	C1-2	PANASONIC. ECJ-2VC1H101J. CAP. NPO 100PF 50V SM0805					
2	70	C3-62, C117-126	KEMET; C1206C104K5RAC. CAP. 0.1UF 50V SM1206.					
3	2	C63-64	CAPACITOR. MONO 3.3UF 50V	59-312-400-31				
4	16	C65-80	CAPACITOR, SMD, 3.3UF, 16V TANT. PANASONIC, ECS-T1CY335R					
5	13	C81-93	CAPACITOR, SMD, 1UF 50 VOLT, VITRAMON VJ1812Y105KXAAT					
6	4	C94-96, C127	CAPACITOR, SMD, 10UF 35V TANT. PANASONIC, ECS-T1VD106R					
7	4	C97-100	CAPACITOR, SMD, 47UF, 16V TANT. PANASONIC, ECS-T1CD476R					
8	16	C101-116	KEMET; C1206C103K5RAC. CAP. 0.01UF 50V SM1206.					
9	3	D1-3	GENERAL SEMICONDUCTOR, 1N5818 SCHOTTKY DIODE.					
10	6	F1-6	CCP2E50; KOA FUSE 2.0 AMP SURFACE MOUNT 1210.					
11	24	H1-24	BREAKAWAY HEADER	59-295-613-01				
12	8	J1-8	JOHNSON 142-0701-501; SMA RIGHT ANGLE.					
REV	DESCRIPTION				DRN	CHK	APP	DATE

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13	1	J9	MOLEX: 44150-0001. MODULAR JACK 2-PORT R-ANGLE.			
14	1	J10	BURNDY 6 PIN MALE MS3120E10-6P.	59-299-410-01		
15	1	P8	TEST POINT. RED PHONE JACK	59-299-696-02		
16	1	P9	TEST POINT. BLACK PHONE JACK	59-299-696-03		
17	8	R1-8	RESISTOR. RK73H2B6491F; KOA, 6.49K OHMS, SM1206			
18	16	R9-24	RESISTOR. RM73B2A100J; KOA, 10 OHMS, SM0805.			
19	8	R25-32	RESISTOR. RM73B2A510J;KOA, 51 OHMS, SMD 0805			
20	24	R33-56	RESISTOR. RM73B2A301J; KOA, 300 OHMS, SM0805.			
21	4	R57-59,R130	RESISTOR. RM73B2A102J;KOA, 1K OHMS, SMD 0805			
22	8	R60-67	RESISTOR. RM73B2A121J;KOA, 120 OHMS, SMD 0805			
23	16	R68-83	RESISTOR. RM73B2A151J;KOA, 151 OHMS, SMD 0805			
24	8	R84-91	RESISTOR. RM73B2A821J;KOA, 820 OHMS, SMD 0805			
25	1	R92	RESISTOR. MF 1% 1/8W. 121 OHMS.	59-306-412-09		
26	1	R93	RESISTOR. MF 1% 1/8W. 365 OHMS.	59-306-412-55		
27	1	R94	RESISTOR. MF 1% 1/8W. 247 OHMS.	59-306-412-39		
28	1	R95	RESISTOR. MF 1% 1/8W. 3.65K OHMS.	59-306-413-55		
29	1	R96	RESISTOR. MF 1% 1/8W. 105 OHMS.	59-306-412-03		
30	16	R97-99,R117-129	RESISTOR. RM73B2A513J;KOA, 51K OHMS, SMD 0805			
31	16	R100-115	RESISTOR. RK73H2B5900F; KOA, 590 OHMS, SMD 1206			
32	1	R116	RESISTOR. 402 OHMS MF 1/8W.	59-306-412-59		

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33	8	T1-8	MINI-CIRCUITS: T2-1T-KK81, TRANSFORMR. 2:1 70KHZ TO 300M SMD		
34	1	U1	INA105KP; DIFF. OP-AMP, BURR-BROWN, 8PDIP		
35	8	U2-9	NATIONAL, CLC522AJE; VARIABLE GAIN AMP. 1450IC		
36	4	U10-13	NATIONAL SEMI. LM6182AIN; DUAL OP-AMP, 8PDIP		
37	2	U14-15	NATIONAL. CLC414AJE; QUAD WIDEBAND OP-AMP 1450IC		
38	1	U16	LM2991T, NEGATIVE LOW DROPOUT REGULATOR TO-220		
39	1	U17	MIC29300-5.0BT; MICREL 5V LOW-DROPOUT REG. TO-220		
40	1	VR1	LM317T; NATIONAL SEMI. POS. ADJ. REGULATOR TO-220	59-313-600-57	