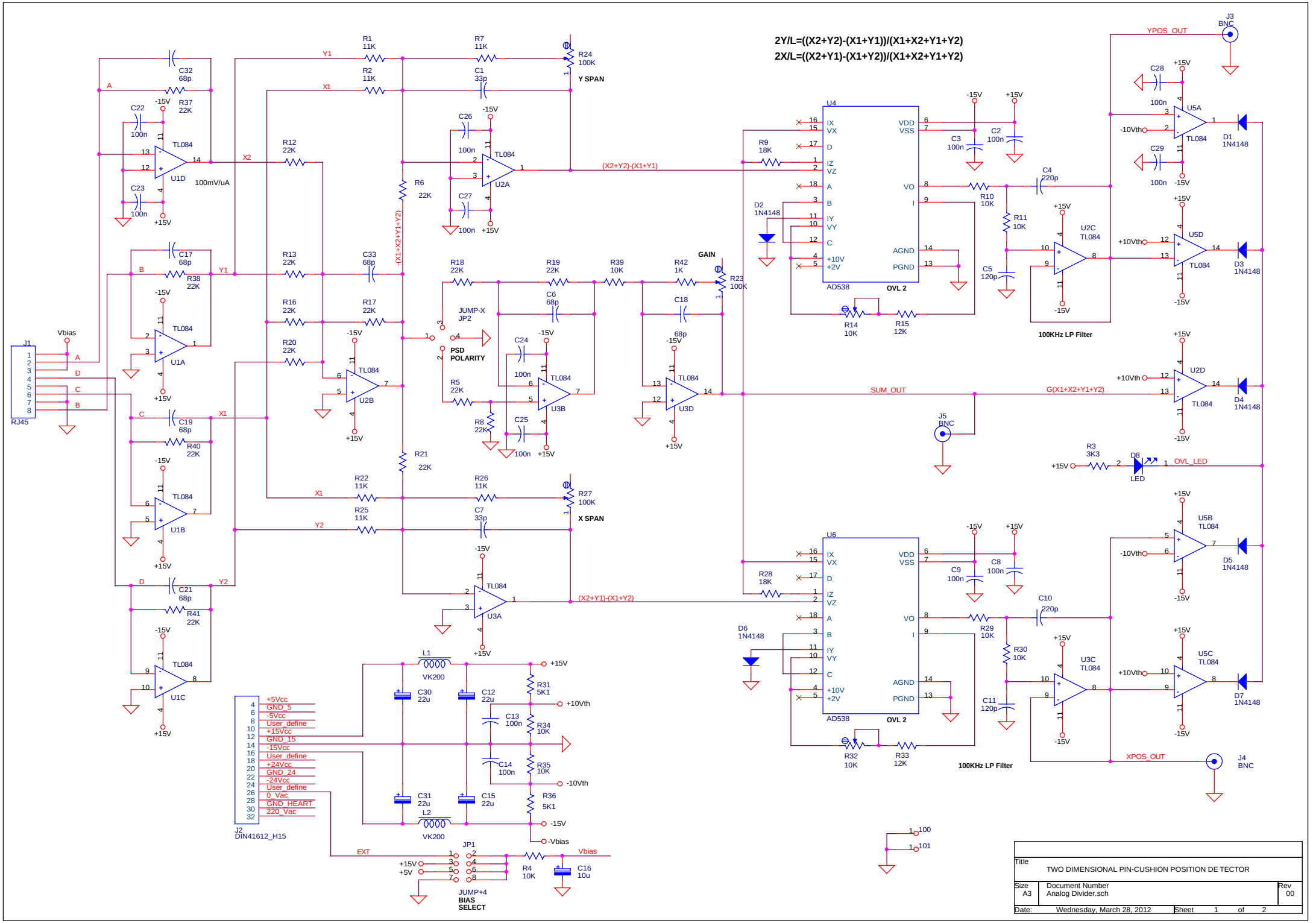
2Y/L=((X2+Y2)-(X1+Y1))/(X1+X2+Y1+Y2)
2X/L=((X2+Y1)-(X1+Y2))/(X1+X2+Y1+Y2)
Y SPAN
X SPAN
GAIN
JUMP-X JP2
PSD POLARITY
OVL 2
AD538
100KHz LP Filter
SUM_OUT
G(X1+X2+Y1+Y2)
YPOS_OUT
XPOS_OUT
OVL_LED
100mV/uA
(X2+Y2)-(X1+Y1)
(X2+Y1)-(X1+Y2)
-(X1+X2+Y1+Y2)
JUMP+4 BIAS SELECT
DIN41612_H15
RJ45
Vbias
+5Vcc
GND_5
-5Vcc
User_define
+15Vcc
GND_15
-15Vcc
User_define
+24Vcc
GND_24
-24Vcc
User_define
0_Vac
GND_HEART
220_Vac
TL084
VK200
LED
TWO DIMENSIONAL PIN-CUSHION POSITION DE TECTOR
Document Number
Analog Divider.sch
Rev 00
Wednesday, March 28, 2012
Sheet 1 of 2

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TWO DIMENSIONAL PIN-CUSHION POSITION DETECTOR Revised: Thursday, November 17, 2011
Analog Divider.sch Revision: 00

LENS - Università di Firenze
Via N. Carrara, 1

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Item	Q.ty	Reference	Description	Value	Supplier Ref
1	2	C1,C7	Cond. Ceramico 50V	33p	
2	14	C2,C3,C8,C9,C13,C14,C22, C23,C24,C25,C26,C27,C28, C29	Cond. Ceramico 50V	100n	
3	2	C4,C10	Cond. Ceramico 50V	220p	
4	2	C11,C5	Cond. Ceramico 50V	120p	
5	7	C6,C17,C18,C19,C21,C32, C33	Cond. Ceramico 50V	68p	
6	4	C12,C15,C30,C31	Cond. Tantalio 25V	22u	
7	1	C16	Cond. Tantalio 25V	10u	
8	7	D1,D2,D3,D4,D5,D6,D7	Diode	1N4148	
9	1	D8	Led Diode 3mm	ROSSO	
10	1	JP1	Jumper	JUMP+4	
11	1	JP2	Jumper	JUMP-X	
12	1	J1	Conn. RJ45 PCB R.A.	RJ45	Farnell 2060718
13	1	J2	Conn. 15P PCB R.A.	DIN41612_H15	
14	3	J3,J4,J5	Conn. BNC PCB R.A.	BNC	Farnell 1020955
15	2	L2,L1	Inductor	VK200	
16	6	R1,R2,R7,R22,R25,R26	Resistor 0.25W 1%	11K	
17	1	R3	Resistor 0.25W 1%	3K3	
18	8	R4,R10,R11,R29,R30,R34, R35,R39	Resistor 0.25W 1%	10K	
19	15	R5,R6,R8,R12,R13,R16,R17, R18,R19,R20,R21,R37,R38, R40,R41	Resistor 0.25W 1%	22K	
20	2	R9,R28	Resistor 0.25W 1%	18K	
21	2	R14,R32	Trimmer	10K	
22	2	R15,R33	Resistor 0.25W 1%	12K	
23	3	R23,R24,R27	Trimmer	100K	
24	2	R36,R31	Resistor 0.25W 1%	5K1	
25	1	R42	Resistor 0.25W 1%	1K	
26	4	U1,U2,U3,U5	Integrated Circuit	TL084	

27	2	U4,U6	Integrated Circuit	AD538