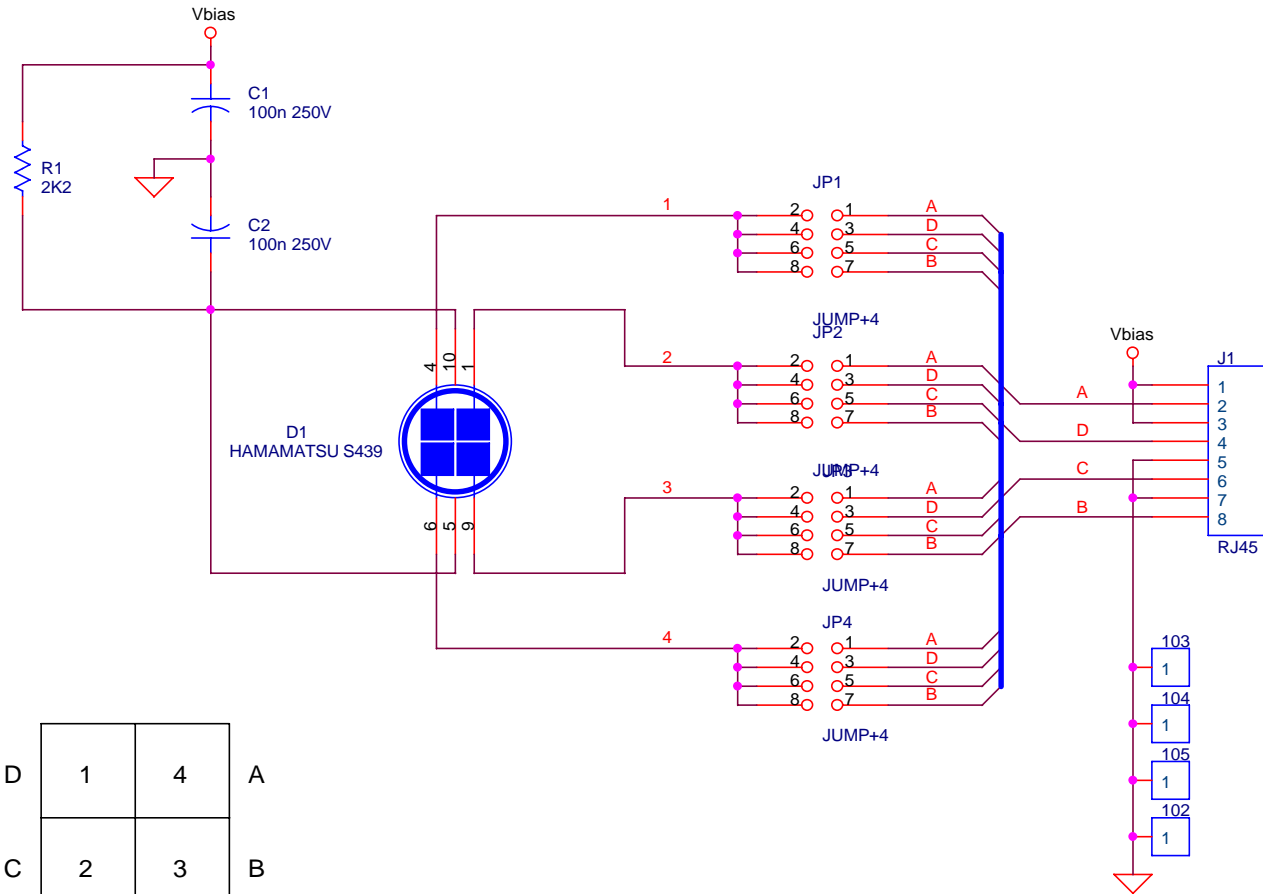


Negative Vbias (MAX -20V)



D	1	4	A
C	2	3	B

$$X = \frac{(A+B) - (C+D)}{A+B+C+D}$$

$$Y = \frac{(A+D) - (B+C)}{A+B+C+D}$$

Title		
4-Quadrant Position Detector		
Size	Document Number	Rev
A4	hama-s4349_posdetect_head.dsn	00
Date:	Thursday, July 26, 2012	Sheet 2 of 2

4-Quadrant Position Detector Revised: Thursday, July 26, 2012
hama-s4349_posdetect_head.dsn Revision: 00

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Item	Q.ty	Reference	Description	Value	Supplier Ref
1	2	C1,C2	Cond. Poly. 250V p.400	100n 250V	
2	1	D1	4-Quadrants PSD Photodiode	HAMAMATSU S4349	
3	4	JP1,JP2,JP3,JP4	Jumper 4x2 p.2.54	JUMP+4	
4	1	J1	Conn. RJ45 PCB R.A.	RJ45	Farnell 2060718
5	1	R1	Resistor 0.5W 5%	2K2	