+5V

SIG1 1 SJ1-3533 2 3 MIC1
SIG2 1 SJ1-3533 2 3 MIC2
SIG3 1 SJ1-3533 2 3 MIC3
SIG4 1 SJ1-3533 2 3 MIC4
SIG5 1 SJ1-3533 2 3 MIC5
SIG6 1 SJ1-3533 2 3 MIC6
SIG7 1 SJ1-3533 2 3 MIC7
SIG8 1 SJ1-3533 2 3 MIC8

VSS

SIG1 3 MIC12
SIG2 2 MIC12
1 RCJ-22XX

SIG3 3 MIC34
SIG4 2 MIC34
1 RCJ-22XX

SIG5 3 MIC56
SIG6 2 MIC56
1 RCJ-22XX

SIG7 3 MIC78
SIG8 2 MIC78
1 RCJ-22XX

VSS

+12V

D1
S1
2 3
DC_JACK
1101M2S3AQE2
1
+12VDC
W02G
VSS

+5V
C10 C9 C8 C7 C6 R1 1k IC1 7805 +12V
VO VI
GND
0.33uF 0.33uF POWER C1 C5
0.33uF 0.33uF
VSS

J3
SIG1 1 G1
SIG2 2 6 SIG6
SIG3 3 7 SIG7
SIG4 4 8 SIG8
SIG5 5 9
G2
VSS

RoboMotio

by: Yan Morin
rev 1: Serge Caron

LABORIUS
http://laborius.gel.usherbrooke.ca

TITLE: Mic Interface public release

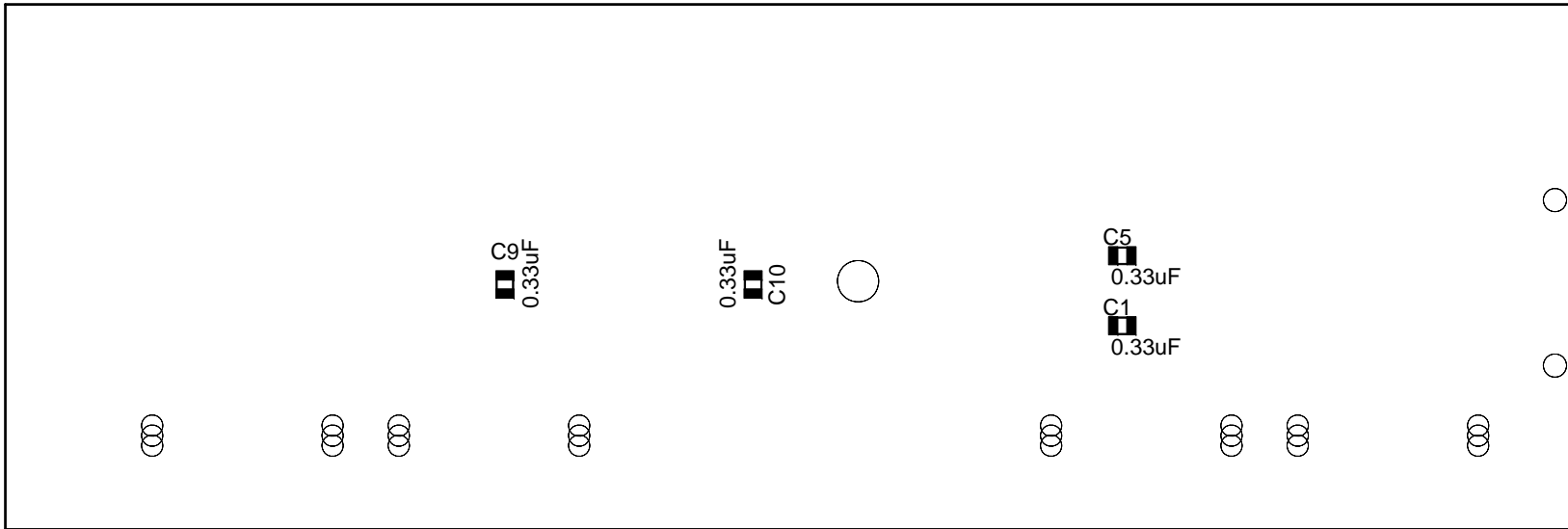Document Number: AUD0816.02

REV: 1

Date: 2008-10-21 10:06:22

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Micro Interface public release

Qty	Reference	Value	Manufacturer	Manuf. Part #	DigiKey Part #	Note
4	C1, C5, C9, C10	0.33uF	Murata	GRM21BF51E334ZA01L	490-1729-1-ND	any 0805 25V+ rated
3	C6, C7, C8	var.	var.	var.	var.	user's choice if necessary
1	D1	W02G	Vishay	W02G-E4/51	W02G-E4/51GI-ND	
			Diodes Inc	W02G	W02GDI-ND	substitute
1	DC_JACK	pwr jack 2.1mm	CUI	PJ-202A	CP-202A-ND	
			CUI	PJ-102A	CP-102A-ND	substitute
			CUI	PJ-102AH	CP-102AH-ND	substitute
1	IC1	7805	Fairchild	LM7805CT	LM7805CT-ND	any 7805 in TO-220
1	J3	Female DB9	AMP	1734354-2	A35108-ND	
			Norcomp	182-009-213R531	182-09FE-ND	substitute
8	MIC1 to MIC8	SJ1-3533	CUI	SJ1-3533	CP1-3533-ND	
	MIC12, MIC34,					
4	MIC56, MIC78	RCJ22xx	CUI	RCJ-2221	CP-1433-ND	
			CUI	RCJ-2234	CP-1434-ND	substitute
			CUI	RCJ-2223	CP-1435-ND	substitute
1	POWER	LED 3mm	KingBright	WP7104LID	754-1245-ND	any 3mm LED will do
			Panasonic	LN28RCPX	P606-ND	substitute
1	R1	1k or other	var.	var.	var.	any axial resistor 1/4W
1	S1	SPDT	C&K	1101M2S3AQE2	CKN5006-ND	

Top Silk Screen

MIC1 SJ1-3533
MIC2 SJ1-3533
MIC3 SJ1-3533
MIC4 SJ1-3533
MIC5 SJ1-3533
MIC6 SJ1-3533
MIC7 SJ1-3533
MIC8 SJ1-3533

ON

S1 1101M2S3AQE2

D1 W02G

IC1
7805

C7

C8

C6

R1
1k

POWER

AUD0816.02

RCJ-22XX
MIC12

RCJ-22XX
MIC34

5   1
9   6
2,54   F09   J3

RCJ-22XX
MIC56

RCJ-22XX
MIC78

Bottom Silk Screen

C9uF
0.33uF

0.33uF
C10

C5
0.33uF

C1
0.33uF
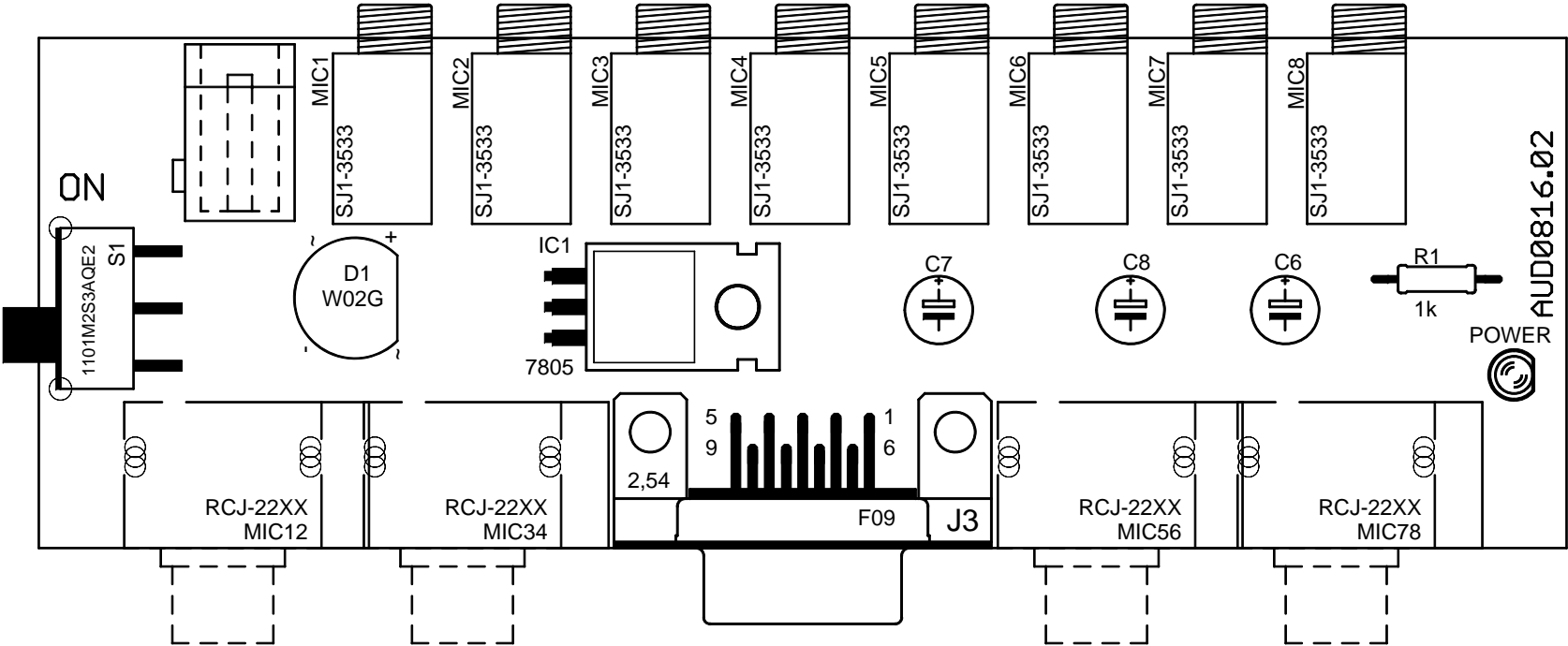
Top Trace
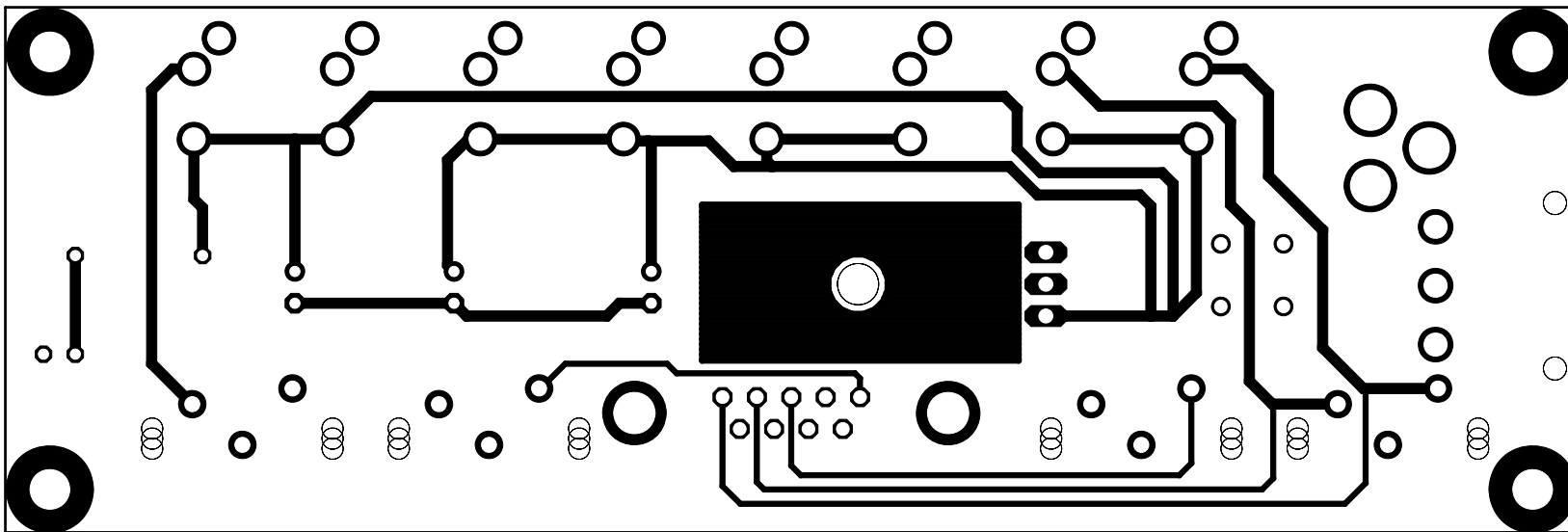
Bottom Trace
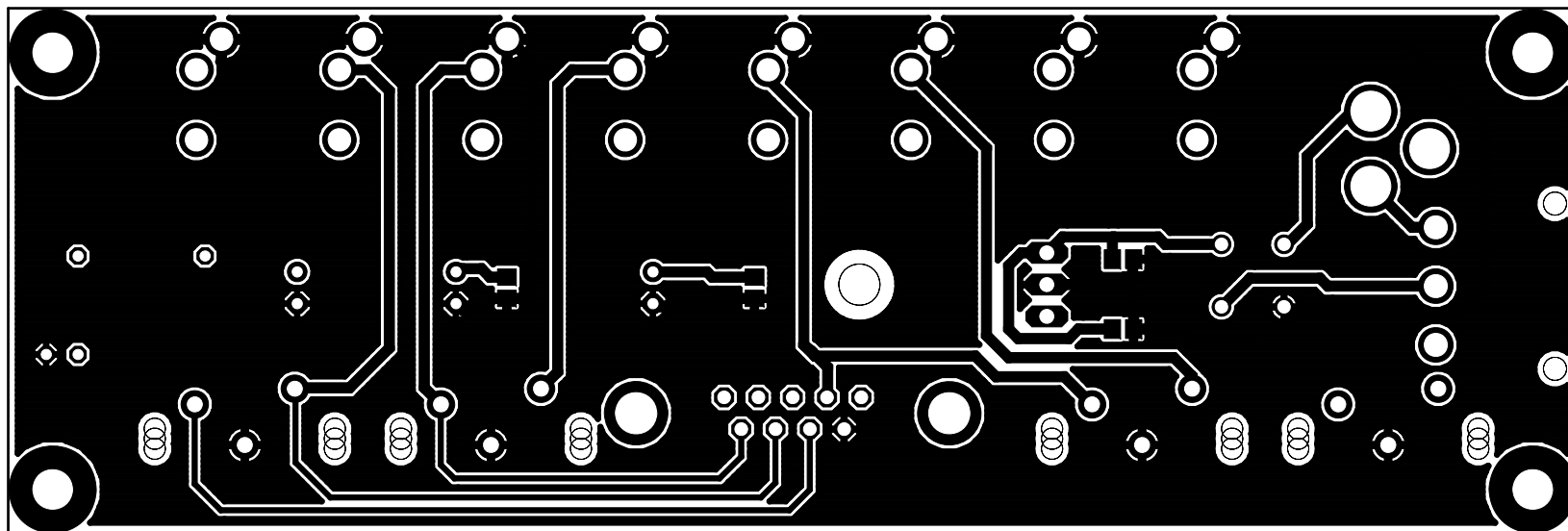
Measurements

4.94 in.

4.66 in.

125mil hole
4-40 screw

1.65 in.

1.375 in.

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