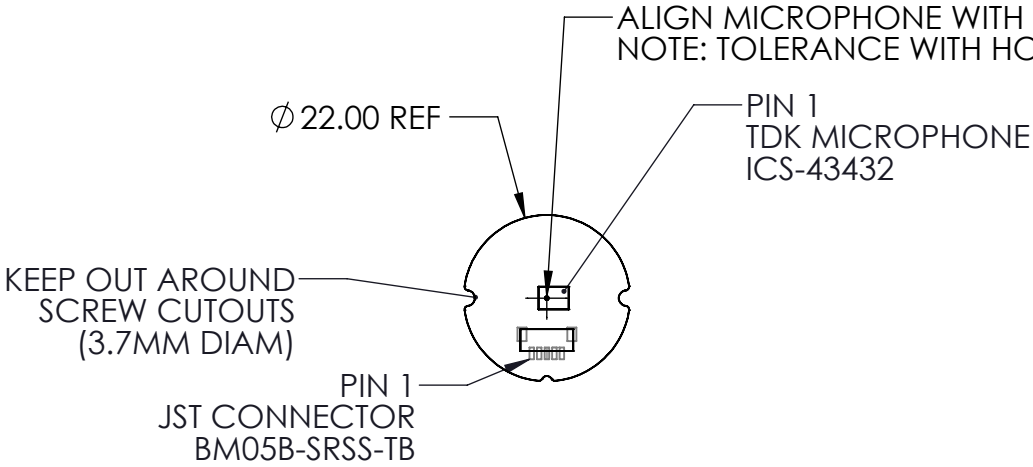




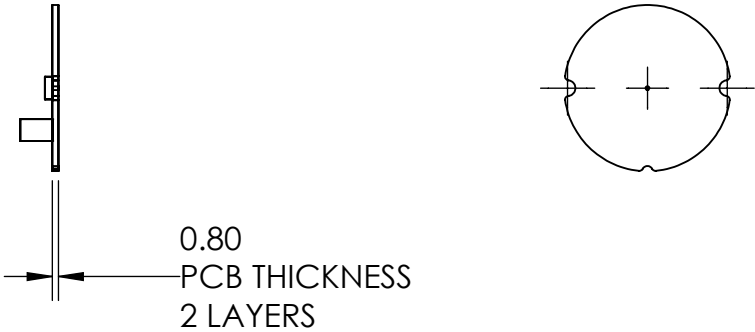
NOTES: UNLESS OTHERWISE SPECIFIED

1. USE 3-D SOURCE FOR PART FABRICATION. THIS DRAWING IS TO BE USED FOR PART INSPECTION AND CRITICAL DIMENSIONS THAT AFFECT FIT, FORM AND FUNCTION

REV	ECO#	DESCRIPTION	MODIFIED	APPROVED	DATE
01		INITIAL RELEASE	C. JAMESON	XXXXX	200817
02		REMOVE MOUSEBITES, SHOW THICKNESS	C. JAMESON		200819
03		BOARD THICKNESS INCREASE	C. JAMESON		200820
04		MOUNTING STRATEGY CHANGE	C. JAMESON		200825
05		MOUNTING STRATEGY CHANGE	C. JAMESON		200903



TOP
ALL COMPONENTS MUST BE
LESS THAN 6MM TALL



BOTTOM
NO COMPONENTS MAY BE PLACED

PIN TO PIN CONNECTION:

Mic 3V3	- Connector Pin 1	[Pi 3.3 V (Pin 1)]
Mic GND	- Connector Pin 2	[Pi Ground (Pin 6)]
Mic BCLK	- Connector Pin 3	[BCM 18 (pin 12)]
Mic CKL	- Connector Pin 4	[BCM 19 (pin 35)]
Mic DATA	- Connector Pin 5	[BCM 20 (pin 38)]

ROUTING NOTES:

For passives around the mic, we would only need dampening/terminating resistors on the data line, close to the mic. The power smoothing caps should be as close as possible to the mic.

The select pin of the mic can be tied to ground. This sets the mic to output its data on the right channel.

Usually a big ground plane is good. The BOTTOM facing side of the mic PCB can be a big ground plane to help with RFI reduction. Power lines can be wider than data lines.

<div>TOLERANCE DATA TABLE</div> <table><tr><td></td><td>MM</td></tr><tr><td>0<X<20MM</td><td>0.1</td></tr><tr><td>20<X<100MM</td><td>0.15</td></tr><tr><td>100<X<160MM</td><td>0.2</td></tr><tr><td>ANGLE</td><td>± 1 DEG.</td></tr><tr><td colspan="2">UNLESS OTHERWISE SPECIFIED</td></tr></table>			MM	0<X<20MM	0.1	20<X<100MM	0.15	100<X<160MM	0.2	ANGLE	± 1 DEG.	UNLESS OTHERWISE SPECIFIED		<div>FINISH:</div> <div>xxxxxx</div>	<div>LOFT LLC, PROPRIETARY AND CONFIDENTIAL INFORMATION</div> <div>DELIVERABLES NEED TO BE APPROVED AS THEY CONFORM IN ALL MATERIAL ASPECTS WITH THE REQUIREMENTS OF THE APPLICABLE ORDER. INFORMATION SHALL NOT BE REPRODUCED, DUPLICATED, OR SHARED WITH 3RD PARTY WITHOUT PRIOR WRITTEN CONSENT.</div>	<div><div><div>Loft</div><div>19 BASSETT STREET PROVIDENCE, RI, 02906</div></div><div>TITLE</div><div>SONYC Microphone PCBA</div><table><tr><td>SIZE</td><td>UNITS</td><td>DWG NO</td><td>VERSION</td><td>REV</td></tr><tr><td>B</td><td>MILLIMETERS</td><td>Microphone-PCBA</td><td></td><td>5</td></tr><tr><td>SCALE</td><td>1:1</td><td>SHEET</td><td colspan="2">1 OF 1</td></tr></table></div>					SIZE	UNITS	DWG NO	VERSION	REV	B	MILLIMETERS	Microphone-PCBA		5	SCALE	1:1	SHEET	1 OF 1	
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