
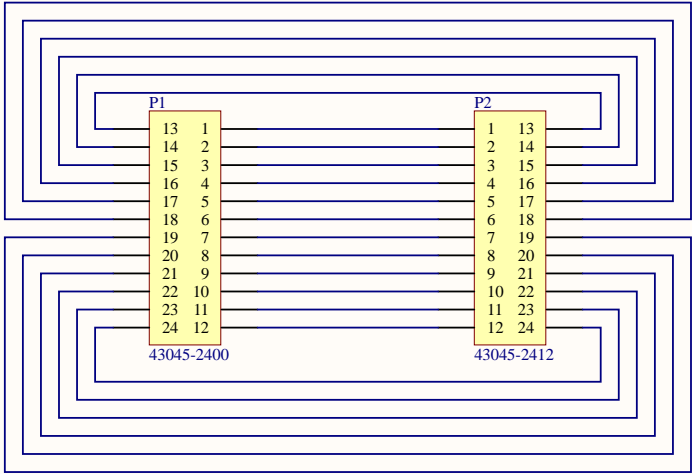


Breakout Board

Rev 1

Title <i>Breakout Board</i>			<div>Badgerloop 133 Engineering Research Building Madison, WI 53715</div> <div></div>
Size: A4	Number:1	Revision:1	
Date: 2/15/2020	Time: 12:34:53 PM	Sheet 1 of	
File: C:\Users\Windows PC\Desktop\Badgerloop\git_repos\hardware\breakout_board\breakout_board.SchDoc			

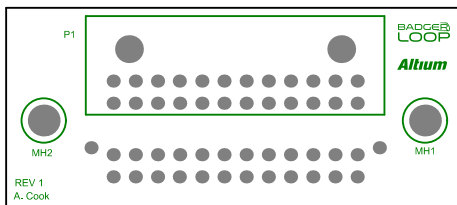
Breakout Board Connectors



MH1
4-40 Mount Hole

MH2
4-40 Mount Hole

Title Connectors		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: Andrew Cook	Revision:1	BADGER LOOP	
Date: 2/15/2020	Time: 12:34:53 PM		
File: connectors.SchDoc		Sheet 2 of 1	



Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.5	
3	Top Layer	Copper	1.40mil		
4	Dielectric 1	FR-4	12.60mil	4.8	
5	Internal Plane 1	Copper	1.40mil		
6	Dielectric2	FR-4	12.60mil	4.8	
7	Internal Plane 2	Copper	1.40mil		
8	Dielectric3	FR-4	12.60mil	4.8	
9	Bottom Layer	Copper	1.40mil		
10	Bottom Solder	Solder Resist	0.40mil	3.5	
11	Bottom Overlay				

Top Layer

**BADGER
LOOP**Badgerloop
ERB Room 133
1400 Engineering Drive
Madison, WI 53706ENGINEER:
Andrew CookPCB DESIGNER:
Andrew CookDATE:
2/15/2020FILE NAME:
breakout_board.PcbDocTITLE:
breakout_board.PcbDocPART NO.:
Battery Module Breakout Board

DWG NO:

REV:
ASCALE:
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A

A

B

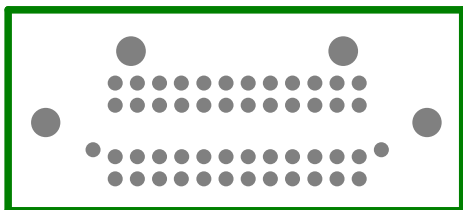
B

C

C

D

D



Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.5	
3	Top Layer	Copper	1.40mil		
4	Dielectric 1	FR-4	12.60mil	4.8	
5	Internal Plane 1	Copper	1.40mil		
6	Dielectric2	FR-4	12.60mil	4.8	
7	Internal Plane 2	Copper	1.40mil		
8	Dielectric3	FR-4	12.60mil	4.8	
9	Bottom Layer	Copper	1.40mil		
10	Bottom Solder	Solder Resist	0.40mil	3.5	
11	Bottom Overlay				

Internal Plane 1

**BADGER
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ERB Room 133
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REV:
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A

A

B

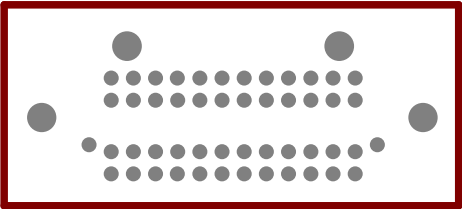
B

C

C

D

D



Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.5	
3	Top Layer	Copper	1.40mil		
4	Dielectric 1	FR-4	12.60mil	4.8	
5	Internal Plane 1	Copper	1.40mil		
6	Dielectric2	FR-4	12.60mil	4.8	
7	Internal Plane 2	Copper	1.40mil		
8	Dielectric3	FR-4	12.60mil	4.8	
9	Bottom Layer	Copper	1.40mil		
10	Bottom Solder	Solder Resist	0.40mil	3.5	
11	Bottom Overlay				

Internal Plane 2

BADGER
LOOP

Badgerloop
ERB Room 133
1400 Engineering Drive
Madison, WI 53706

ENGINEER:
Andrew Cook

PCB DESIGNER:
Andrew Cook

DATE:
2/15/2020

FILE NAME:
breakout_board.PcbDoc

TITLE:
breakout_board.PcbDoc

PART NO.:
Battery Module Breakout Board

DWG NO:

REV:
A

SCALE:
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A

A

B

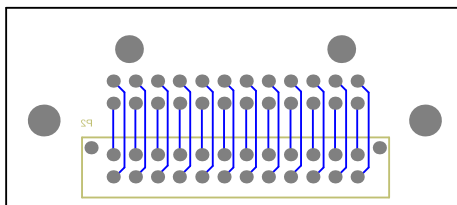
B

C

C

D

D



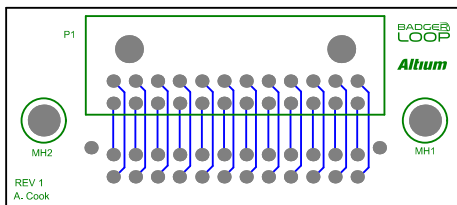
Bottom Layer

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.5	
3	Top Layer	Copper	1.40mil		
4	Dielectric 1	FR-4	12.60mil	4.8	
5	Internal Plane 1	Copper	1.40mil		
6	Dielectric2	FR-4	12.60mil	4.8	
7	Internal Plane 2	Copper	1.40mil		
8	Dielectric3	FR-4	12.60mil	4.8	
9	Bottom Layer	Copper	1.40mil		
10	Bottom Solder	Solder Resist	0.40mil	3.5	
11	Bottom Overlay				

**BADGER
LOOP**Badgerloop
ERB Room 133
1400 Engineering Drive
Madison, WI 53706ENGINEER:
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breakout_board.PcbDocTITLE:
breakout_board.PcbDocPART NO.:
Battery Module Breakout Board

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1:1



Layer	Name	Material	Thickness	Constant	Board Layer Stack
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3	Top Layer	Copper	1.40mil		
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5	Internal Plane 1	Copper	1.40mil		
6	Dielectric2	FR-4	12.60mil	4.8	
7	Internal Plane 2	Copper	1.40mil		
8	Dielectric3	FR-4	12.60mil	4.8	
9	Bottom Layer	Copper	1.40mil		
10	Bottom Solder	Solder Resist	0.40mil	3.5	
11	Bottom Overlay				

Bottom Layer

Top Layer

**BADGER
LOOP**

Badgerloop
ERB Room 133
1400 Engineering Drive
Madison, WI 53706

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Andrew CookPCB DESIGNER:
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2/15/2020FILE NAME:
breakout_board.PcbDocTITLE:
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