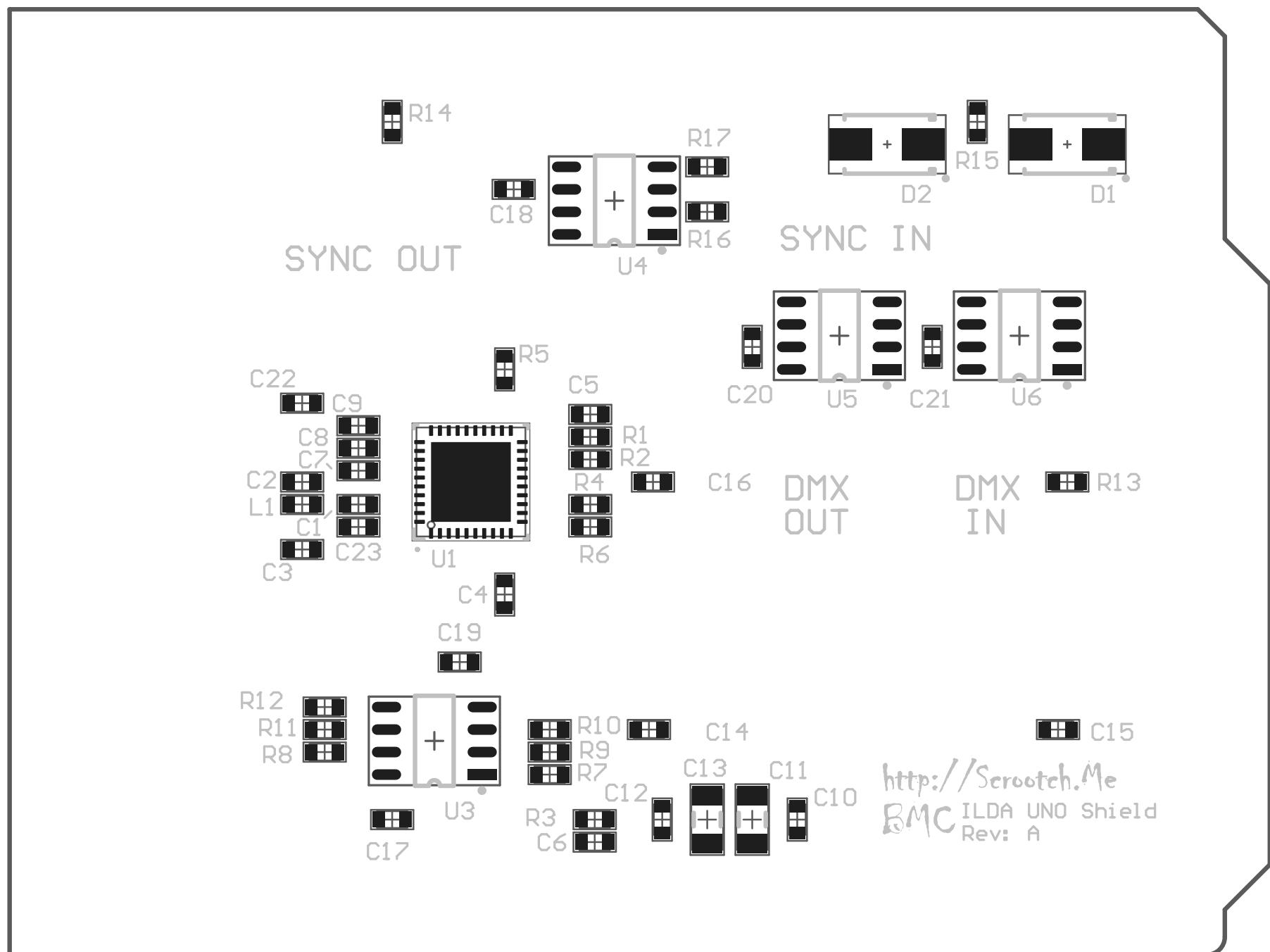


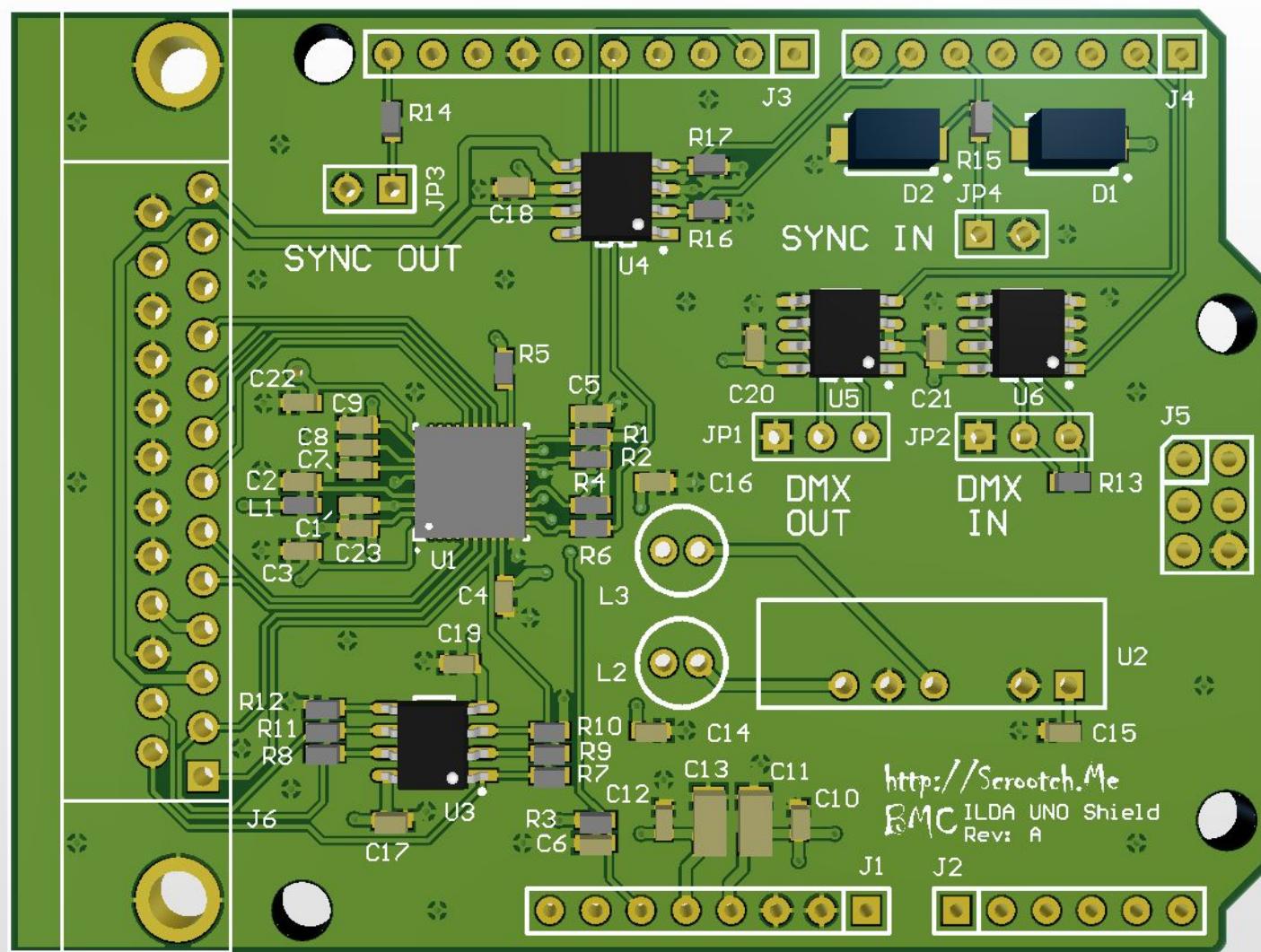
# TOP ASSEMBLY

PROJECT: ILDA UNO Shield  
P/N: ILDA-UNO-1  
REVISION: A

PRINT DATE:  
PRINT TIME:

7/6/2020  
9:04:17 AM

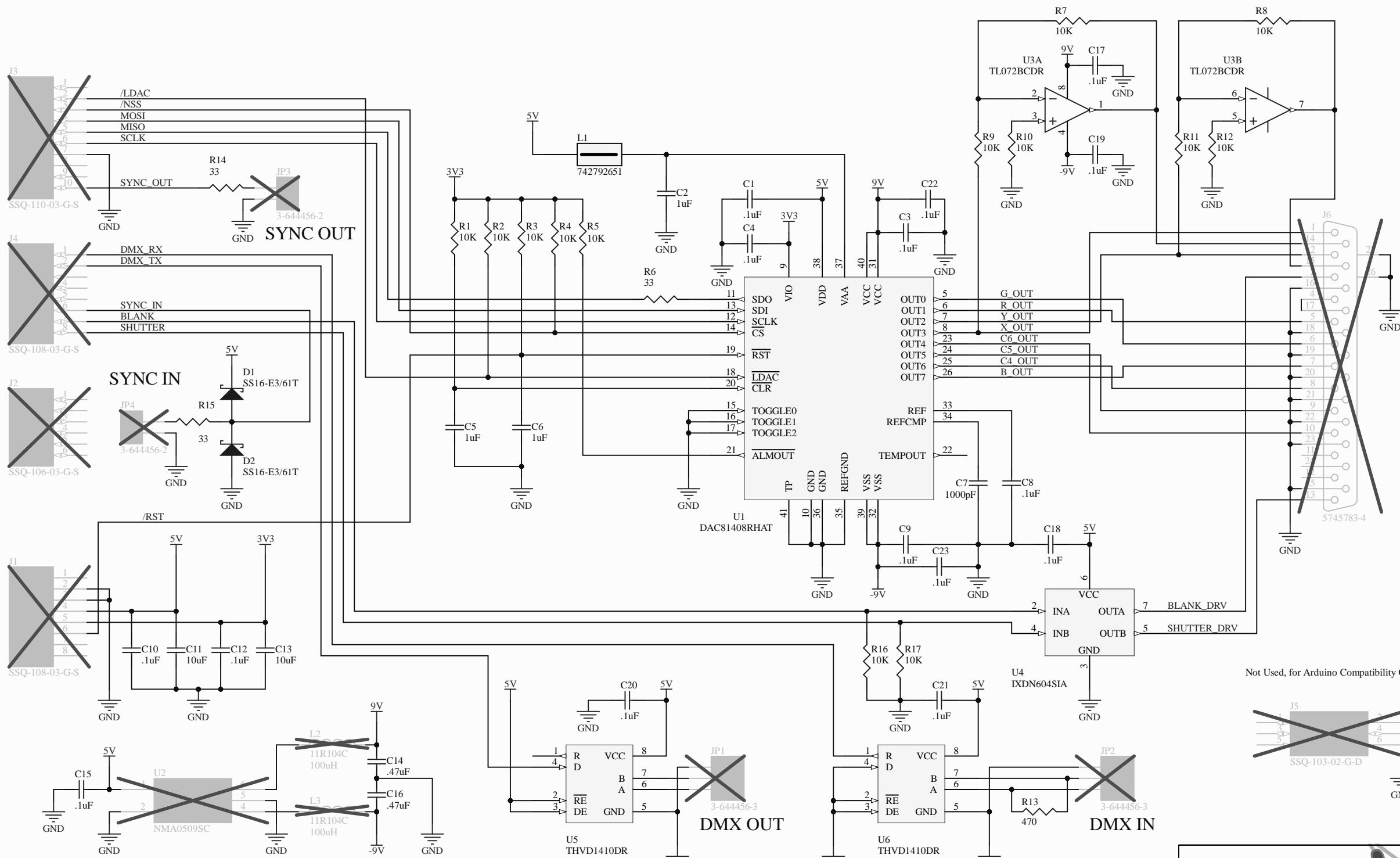




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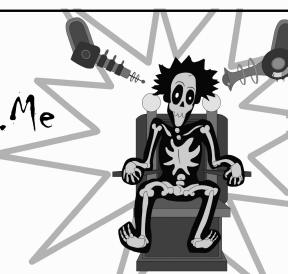
## A ARDUINO INTERFACE



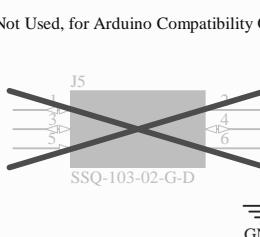
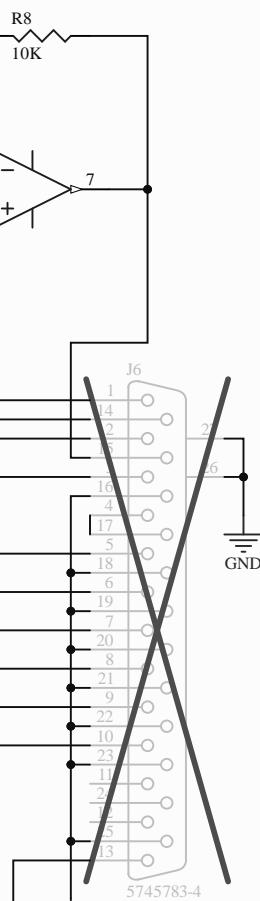
## ILDA UNO Shield

Size:	Section:	Main	Rev:
B	Part #:	ILDA-UNO-1	A
Date: 7/2/2020	Sheet: 1 of 1	File: UnoShield.SchDoc	

<http://Scrootch.Me>  
BMC

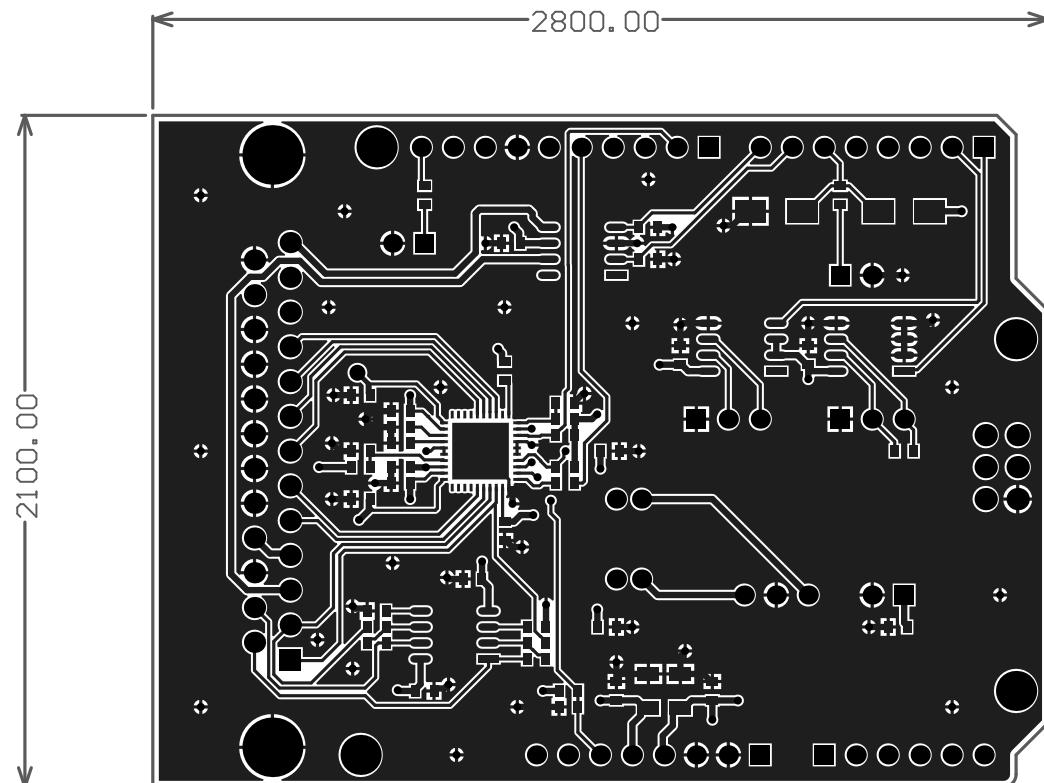


## B ILDA PROJECTOR



## C

## D



PROJECT: ILDA UNO Shield  
P/N: ILDA-UNO-1  
REVISION: A  
PRINT DATE: 7/6/2020  
PRINT TIME: 9:04:19 AM

LAYER DETAILS  
CLR EXT NAME

■ GTL Top Layer

STACK ORDER: 4 LAYERS  
ALL DIMENSIONS IN INCHES UNLESS INDICATED

1 oz	Cu	Top Layer (GTL)
------	----	-----------------

.0047	Prepreg 2113
-------	--------------

.0047	Prepreg 2113
-------	--------------

1 oz	Cu	Ground Plane (GP1)
------	----	--------------------

.040	FR-4
------	------

1 oz	Cu	Power Plane (GP2)
------	----	-------------------

.0047	Prepreg 2113
-------	--------------

.0047	Prepreg 2113
-------	--------------

1 oz	Cu	Bottom Layer (GBL)
------	----	--------------------

FINISHED THICKNESS: .062 (+/-10%)

FINISH: LEAD FREE SOLDER  
SOLDER MASK: GREEN  
Top Solder (GTS)  
Bottom Solder (GBS)

SILK OVERLAY: WHITE, 2 SIDES  
Top Overlay (GTO)  
Bottom Overlay (GBO)

SMT COMPONENTS: 1 SIDE  
Top Paste (GTP)

CLEARANCE  
MIN TRACK: .010  
MIN SPACE: .006

COMPONENTS  
TOTAL: 61

PADS  
TOTAL: 247  
SMT TOP: 159  
SMT BOTTOM: 0

DRILL  
SLOT HOLES: 0

HOLES: 168  
SMALLEST: .007  
TOLERANCE: +/- .005

VIAS  
TOTAL: 80  
BURIED: 0  
BLIND: 0

CONTACT:  
Joe Fitzpatrick  
jfitzpat@scrootchme.com

■ GM1 Board Outline

■ GM2 Board Dimensions

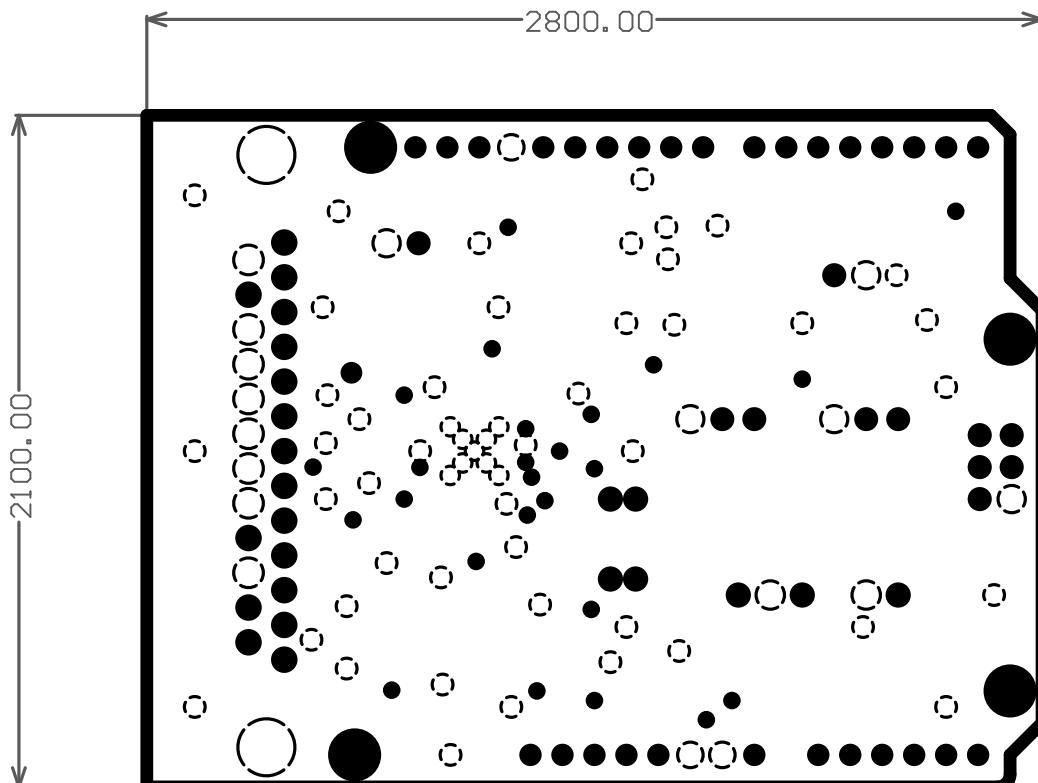
■ GM16 Board Details

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PROJECT: ILDA UNO Shield  
P/N: ILDA-UNO-1  
REVISION: A  
PRINT DATE: 7/6/2020  
PRINT TIME: 9:04:19 AM

LAYER DETAILS  
CLR EXT NAME

■ GP1 Ground Plane

■ GM1 Board Outline

■ GM2 Board Dimensions

■ GM16 Board Details

STACK ORDER: 4 LAYERS

ALL DIMENSIONS IN INCHES UNLESS INDICATED

1 oz	Cu	Top Layer (GTL)
------	----	-----------------

.0047	Prepreg 2113
-------	--------------

.0047	Prepreg 2113
-------	--------------

1 oz	Cu	Ground Plane (GP1)
------	----	--------------------

.040	FR-4
------	------

1 oz	Cu	Power Plane (GP2)
------	----	-------------------

.0047	Prepreg 2113
-------	--------------

.0047	Prepreg 2113
-------	--------------

1 oz	Cu	Bottom Layer (GBL)
------	----	--------------------

FINISHED THICKNESS: .062 (+/-10%)

FINISH: LEAD FREE SOLDER

SOLDER MASK: GREEN

Top Solder (GTS)  
Bottom Solder (GBS)

SILK OVERLAY: WHITE, 2 SIDES

Top Overlay (GTO)  
Bottom Overlay (GBO)

SMT COMPONENTS: 1 SIDE

Top Paste (GTP)

#### CLEARANCE

MIN TRACK: .010  
MIN SPACE: .006

#### PADS

TOTAL: 247  
SMT TOP: 159  
SMT BOTTOM: 0

#### VIAS

TOTAL: 80  
BURIED: 0  
BLIND: 0

#### COMPONENTS

TOTAL: 61

#### DRILL

SLOT HOLES: 0  
HOLES: 168  
SMALLEST: .007  
TOLERANCE: +/- .005

#### CONTACT:

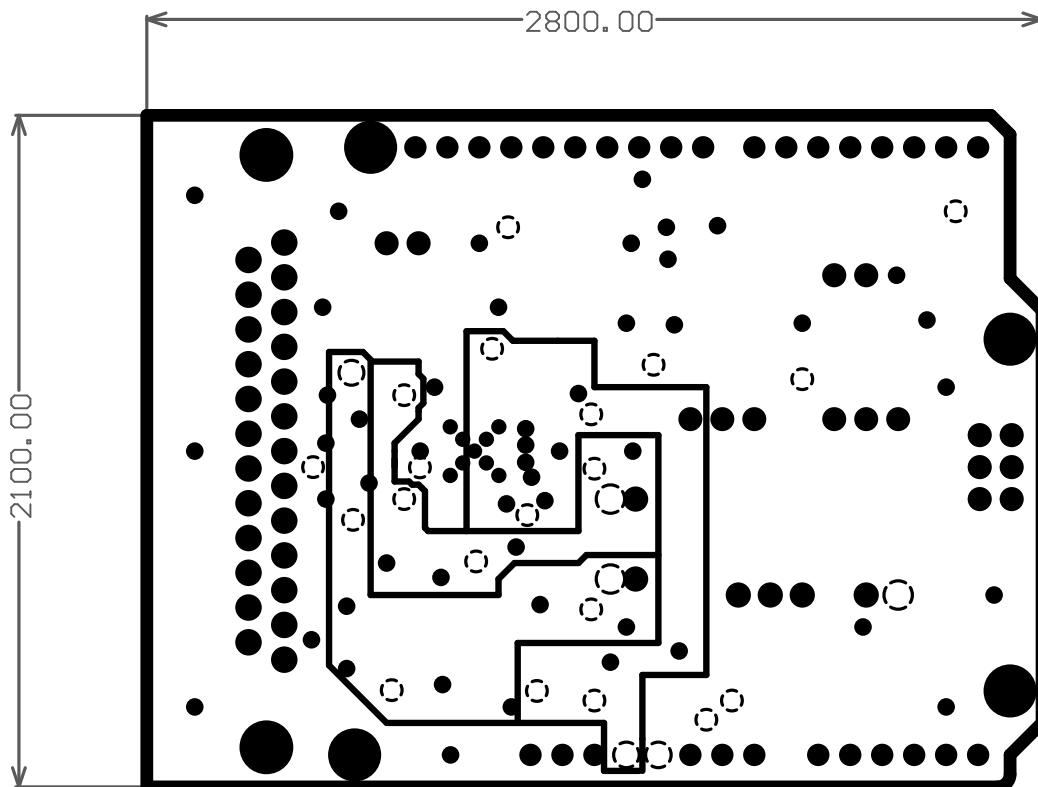
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jfitzpat@scrootchme.com

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PROJECT: ILDA UNO Shield  
P/N: ILDA-UNO-1  
REVISION: A  
PRINT DATE: 7/6/2020  
PRINT TIME: 9:04:19 AM

LAYER DETAILS  
CLR EXT NAME

■ GP2 Power Plane

■ GM1 Board Outline

■ GM2 Board Dimensions

■ GM16 Board Details

STACK ORDER: 4 LAYERS  
ALL DIMENSIONS IN INCHES UNLESS INDICATED

1 oz Cu Top Layer (GTL)

.0047 Prepreg 2113

.0047 Prepreg 2113

1 oz Cu Ground Plane (GP1)

.040 FR-4

1 oz Cu Power Plane (GP2)

.0047 Prepreg 2113

.0047 Prepreg 2113

1 oz Cu Bottom Layer (GBL)

FINISHED THICKNESS: .062 (+/-10%)

FINISH: LEAD FREE SOLDER  
SOLDER MASK: GREEN  
Top Solder (GTS)  
Bottom Solder (GBS)

SILK OVERLAY: WHITE, 2 SIDES  
Top Overlay (GTO)  
Bottom Overlay (GBO)

SMT COMPONENTS: 1 SIDE  
Top Paste (GTP)

CLEARANCE  
MIN TRACK: .010  
MIN SPACE: .006

PADS  
TOTAL: 247  
SMT TOP: 159  
SMT BOTTOM: 0

VIAS  
TOTAL: 80  
BURIED: 0  
BLIND: 0

COMPONENTS  
TOTAL: 61

DRILL  
SLOT HOLES: 0  
HOLES: 168  
SMALLEST: .007  
TOLERANCE: +/- .005

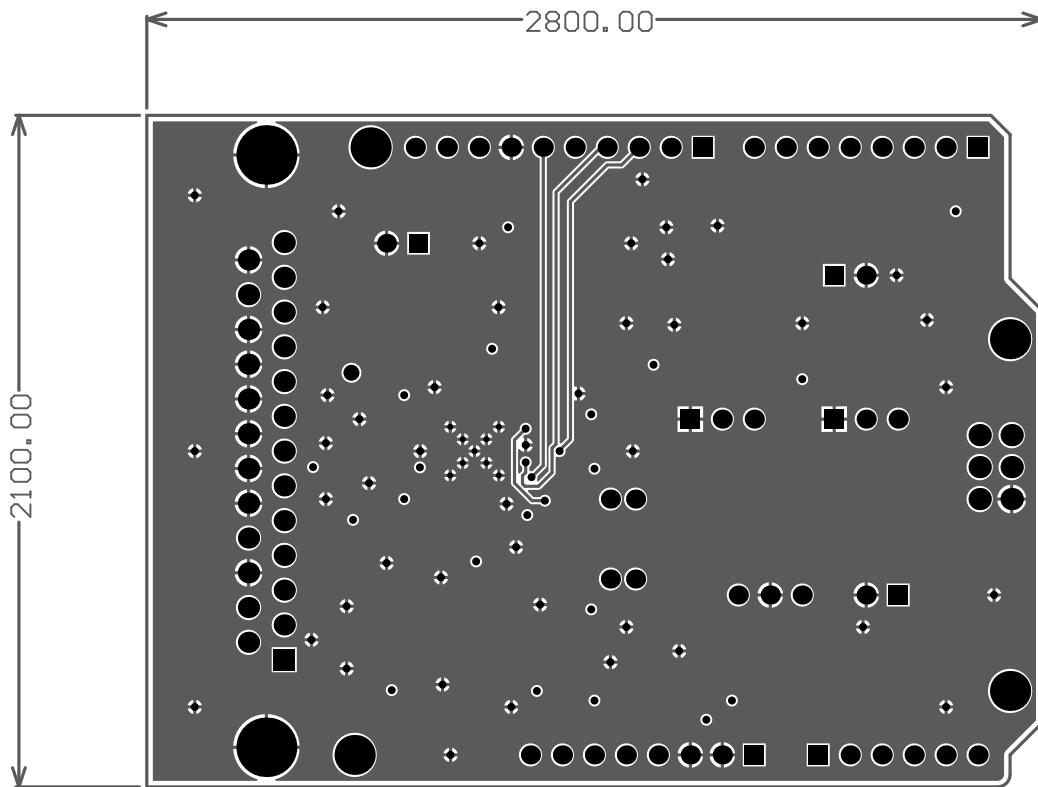
CONTACT:  
Joe Fitzpatrick  
jfitzpat@scrootchme.com

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PROJECT: ILDA UNO Shield  
P/N: ILDA-UNO-1  
REVISION: A  
PRINT DATE: 7/6/2020  
PRINT TIME: 9:04:20 AM

LAYER DETAILS  
CLR EXT NAME

STACK ORDER: 4 LAYERS

ALL DIMENSIONS IN INCHES UNLESS INDICATED

1 oz	Cu	Top Layer (GTL)
------	----	-----------------

.0047	Prepreg 2113
-------	--------------

.0047	Prepreg 2113
-------	--------------

1 oz	Cu	Ground Plane (GP1)
------	----	--------------------

.040	FR-4
------	------

1 oz	Cu	Power Plane (GP2)
------	----	-------------------

■ GBL Bottom Layer

.0047	Prepreg 2113
-------	--------------

.0047	Prepreg 2113
-------	--------------

1 oz	Cu	Bottom Layer (GBL)
------	----	--------------------

FINISHED THICKNESS: .062 (+/-10%)

FINISH: LEAD FREE SOLDER

SOLDER MASK: GREEN

Top Solder (GTS)  
Bottom Solder (GBS)

SILK OVERLAY: WHITE, 2 SIDES

Top Overlay (GTO)  
Bottom Overlay (GBO)

SMT COMPONENTS: 1 SIDE

Top Paste (GTP)

#### CLEARANCE

MIN TRACK: .010  
MIN SPACE: .006

COMPONENTS

TOTAL: 61

#### DRILL

SLOT HOLES: 0  
HOLES: 168  
SMALLEST: .007  
TOLERANCE: +/- .005

#### PADS

TOTAL: 247  
SMT TOP: 159  
SMT BOTTOM: 0

#### CONTACT:

Joe Fitzpatrick  
jfitzpat@scrootchme.com

#### VIAS

TOTAL: 80  
BURIED: 0  
BLIND: 0

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■ GM1 Board Outline

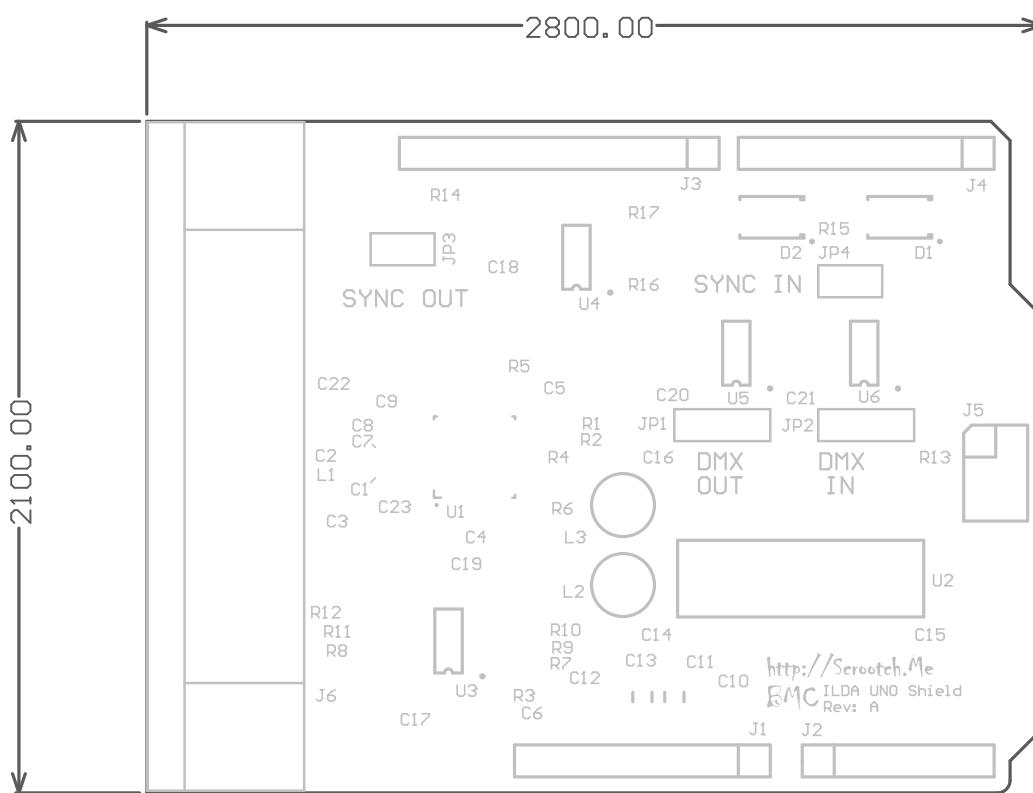
■ GM2 Board Dimensions

■ GM16 Board Details

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PROJECT: ILDA UNO Shield  
P/N: ILDA-UNO-1  
REVISION: A  
PRINT DATE: 7/6/2020  
PRINT TIME: 9:04:20 AM

LAYER DETAILS  
CLR EXT NAME

STACK ORDER: 4 LAYERS

ALL DIMENSIONS IN INCHES UNLESS INDICATED

1 oz	Cu	Top Layer (GTL)
------	----	-----------------

.0047	Prepreg 2113
-------	--------------

.0047	Prepreg 2113
-------	--------------

1 oz	Cu	Ground Plane (GP1)
------	----	--------------------

.040	FR-4
------	------

1 oz	Cu	Power Plane (GP2)
------	----	-------------------

.0047	Prepreg 2113
-------	--------------

.0047	Prepreg 2113
-------	--------------

1 oz	Cu	Bottom Layer (GBL)
------	----	--------------------

FINISHED THICKNESS: .062 (+/-10%)

FINISH: LEAD FREE SOLDER

SOLDER MASK: GREEN

Top Solder (GTS)  
Bottom Solder (GBS)

SILK OVERLAY: WHITE, 2 SIDES

Top Overlay (GTO)  
Bottom Overlay (GBO)

SMT COMPONENTS: 1 SIDE

Top Paste (GTP)

#### CLEARANCE

MIN TRACK: .010  
MIN SPACE: .006

COMPONENTS  
TOTAL: 61

#### DRILL

SLOT HOLES: 0  
HOLES: 168  
SMALLEST: .007  
TOLERANCE: +/- .005

#### PADS

TOTAL: 247  
SMT TOP: 159  
SMT BOTTOM: 0

#### VIAS

TOTAL: 80  
BURIED: 0  
BLIND: 0

CONTACT:

Joe Fitzpatrick  
jfitzpat@scrootchme.com

GTO Top Overlay

GM1 Board Outline

GM2 Board Dimensions

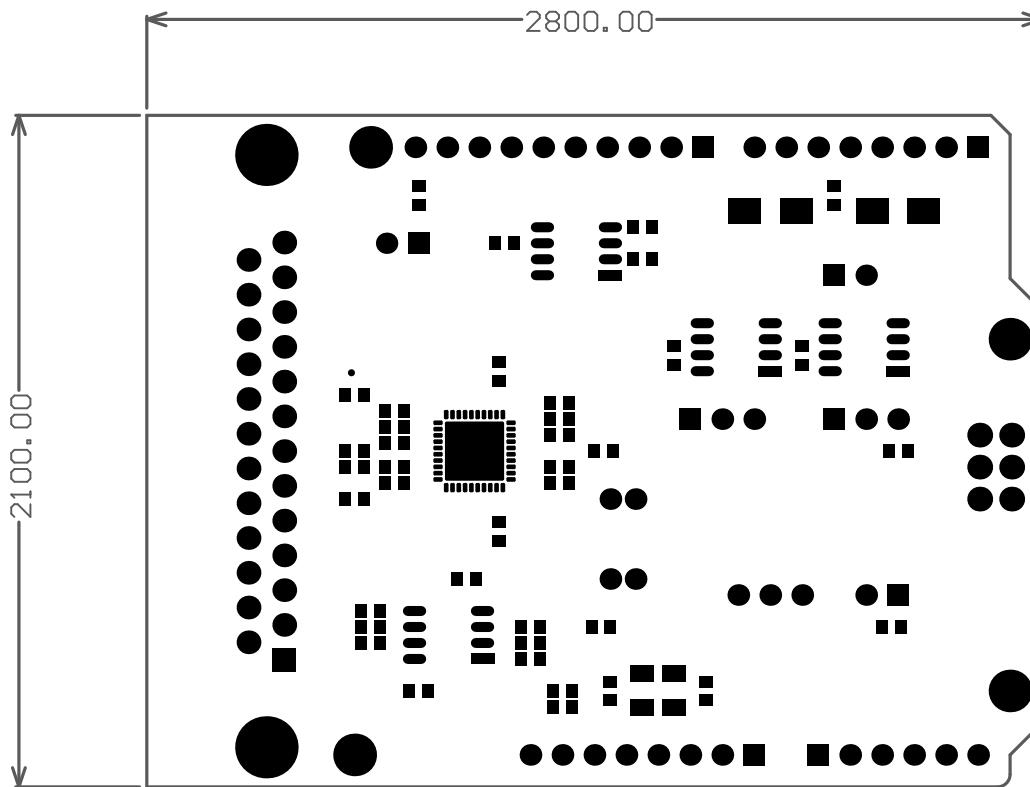
GM16 Board Details

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PROJECT: ILDA UNO Shield  
P/N: ILDA-UNO-1  
REVISION: A  
PRINT DATE: 7/6/2020  
PRINT TIME: 9:04:20 AM

LAYER DETAILS  
CLR EXT NAME

STACK ORDER: 4 LAYERS

ALL DIMENSIONS IN INCHES UNLESS INDICATED

1 oz	Cu	Top Layer (GTL)
------	----	-----------------

.0047	Prepreg 2113
-------	--------------

.0047	Prepreg 2113
-------	--------------

1 oz	Cu	Ground Plane (GP1)
------	----	--------------------

.040	FR-4
------	------

1 oz	Cu	Power Plane (GP2)
------	----	-------------------

.0047	Prepreg 2113
-------	--------------

.0047	Prepreg 2113
-------	--------------

1 oz	Cu	Bottom Layer (GBL)
------	----	--------------------

FINISHED THICKNESS: .062 (+/-10%)

FINISH: LEAD FREE SOLDER

SOLDER MASK: GREEN

Top Solder (GTS)  
Bottom Solder (GBS)

SILK OVERLAY: WHITE, 2 SIDES

Top Overlay (GTO)  
Bottom Overlay (GBO)

SMT COMPONENTS: 1 SIDE

Top Paste (GTP)

#### CLEARANCE

MIN TRACK: .010  
MIN SPACE: .006

COMPONENTS

TOTAL: 61

#### PADS

TOTAL: 247  
SMT TOP: 159  
SMT BOTTOM: 0

DRILL

SLOT HOLES: 0  
HOLES: 168

SMALLEST: .007

TOLERANCE: +/- .005

#### VIAS

TOTAL: 80  
BURIED: 0  
BLIND: 0

CONTACT:

Joe Fitzpatrick  
jfitzpat@scrootchme.com

GTS Top Solder

GM1 Board Outline

GM2 Board Dimensions

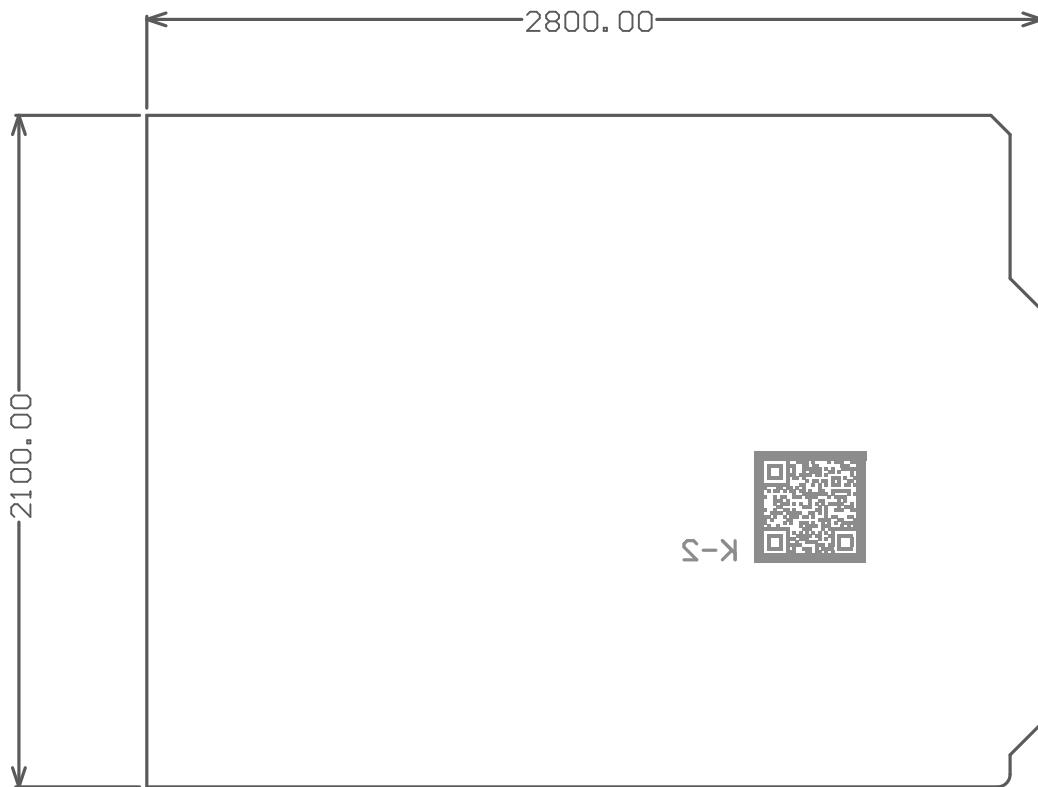
GM16 Board Details

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PROJECT: ILDA UNO Shield  
P/N: ILDA-UNO-1  
REVISION: A  
PRINT DATE: 7/6/2020  
PRINT TIME: 9:04:20 AM

LAYER DETAILS  
CLR EXT NAME

STACK ORDER: 4 LAYERS

ALL DIMENSIONS IN INCHES UNLESS INDICATED

1 oz	Cu	Top Layer (GTL)
------	----	-----------------

.0047	Prepreg 2113
-------	--------------

.0047	Prepreg 2113
-------	--------------

1 oz	Cu	Ground Plane (GP1)
------	----	--------------------

.040	FR-4
------	------

1 oz	Cu	Power Plane (GP2)
------	----	-------------------

.0047	Prepreg 2113
-------	--------------

.0047	Prepreg 2113
-------	--------------

1 oz	Cu	Bottom Layer (GBL)
------	----	--------------------

FINISHED THICKNESS: .062 (+/-10%)

FINISH: LEAD FREE SOLDER  
SOLDER MASK: GREEN

Top Solder (GTS)  
Bottom Solder (GBS)

SILK OVERLAY: WHITE, 2 SIDES  
Top Overlay (GTO)  
Bottom Overlay (GBO)

SMT COMPONENTS: 1 SIDE  
Top Paste (GTP)

CLEARANCE  
MIN TRACK: .010  
MIN SPACE: .006

COMPONENTS  
TOTAL: 61

PADS

TOTAL: 247  
SMT TOP: 159  
SMT BOTTOM: 0

DRILL  
SLOT HOLES: 0  
HOLES: 168  
SMALLEST: .007  
TOLERANCE: +/- .005

VIAS

TOTAL: 80  
BURIED: 0  
BLIND: 0

CONTACT:  
Joe Fitzpatrick  
jfitzpat@scrootchme.com

■ GBO Bottom Overlay

■ GM1 Board Outline

■ GM2 Board Dimensions

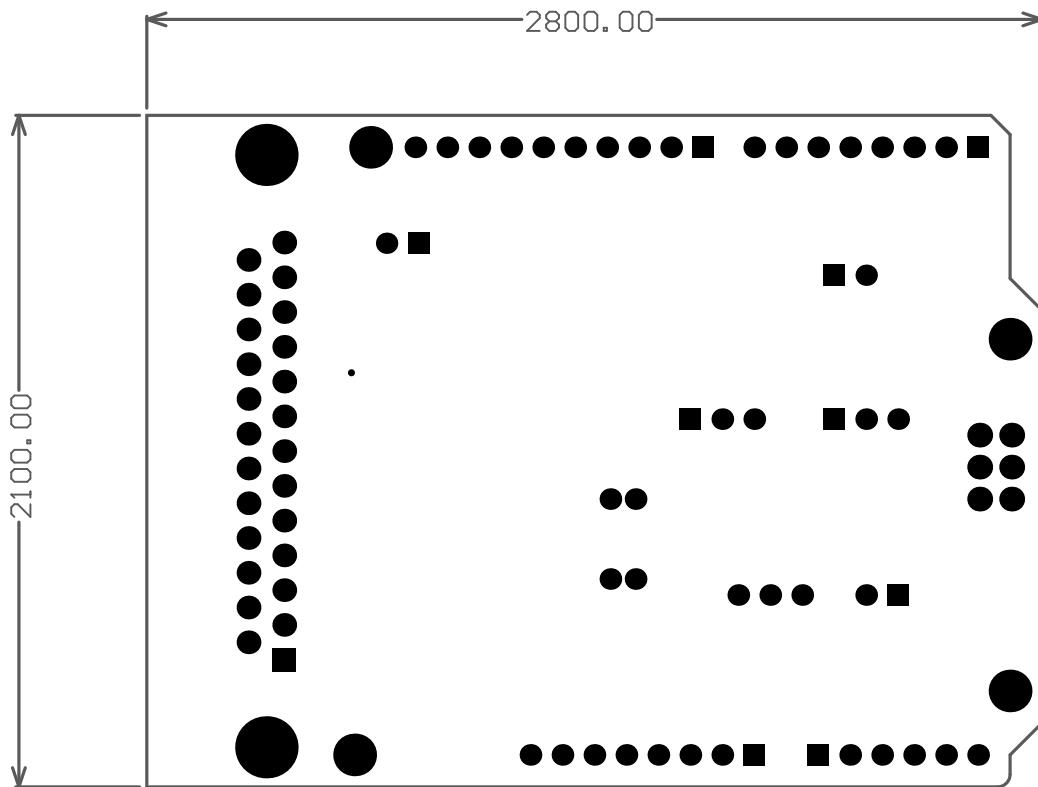
■ GM16 Board Details

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PROJECT: ILDA UNO Shield  
P/N: ILDA-UNO-1  
REVISION: A  
PRINT DATE: 7/6/2020  
PRINT TIME: 9:04:20 AM

LAYER DETAILS  
CLR EXT NAME

STACK ORDER: 4 LAYERS  
ALL DIMENSIONS IN INCHES UNLESS INDICATED

1 oz	Cu	Top Layer (GTL)
------	----	-----------------

.0047	Prepreg	2113
.0047	Prepreg	2113

1 oz	Cu	Ground Plane (GP1)
.040	FR-4	
1 oz	Cu	Power Plane (GP2)

.0047	Prepreg	2113
.0047	Prepreg	2113

1 oz	Cu	Bottom Layer (GBL)
------	----	--------------------

FINISHED THICKNESS: .062 (+/-10%)

FINISH: LEAD FREE SOLDER  
SOLDER MASK: GREEN

Top Solder (GTS)  
Bottom Solder (GBS)

SILK OVERLAY: WHITE, 2 SIDES  
Top Overlay (GTO)  
Bottom Overlay (GBO)

SMT COMPONENTS: 1 SIDE  
Top Paste (GTP)

CLEARANCE  
MIN TRACK: .010  
MIN SPACE: .006

COMPONENTS  
TOTAL: 61

PADS

DRILL

TOTAL: 247  
SMT TOP: 159  
SMT BOTTOM: 0

SLOT HOLES: 0  
HOLES: 168  
SMALLEST: .007  
TOLERANCE: +/- .005

VIAS

CONTACT:

TOTAL: 80  
BURIED: 0  
BLIND: 0

Joe Fitzpatrick  
jfitzpat@scrootchme.com

■ GBS Bottom Solder

■ GM1 Board Outline

■ GM2 Board Dimensions

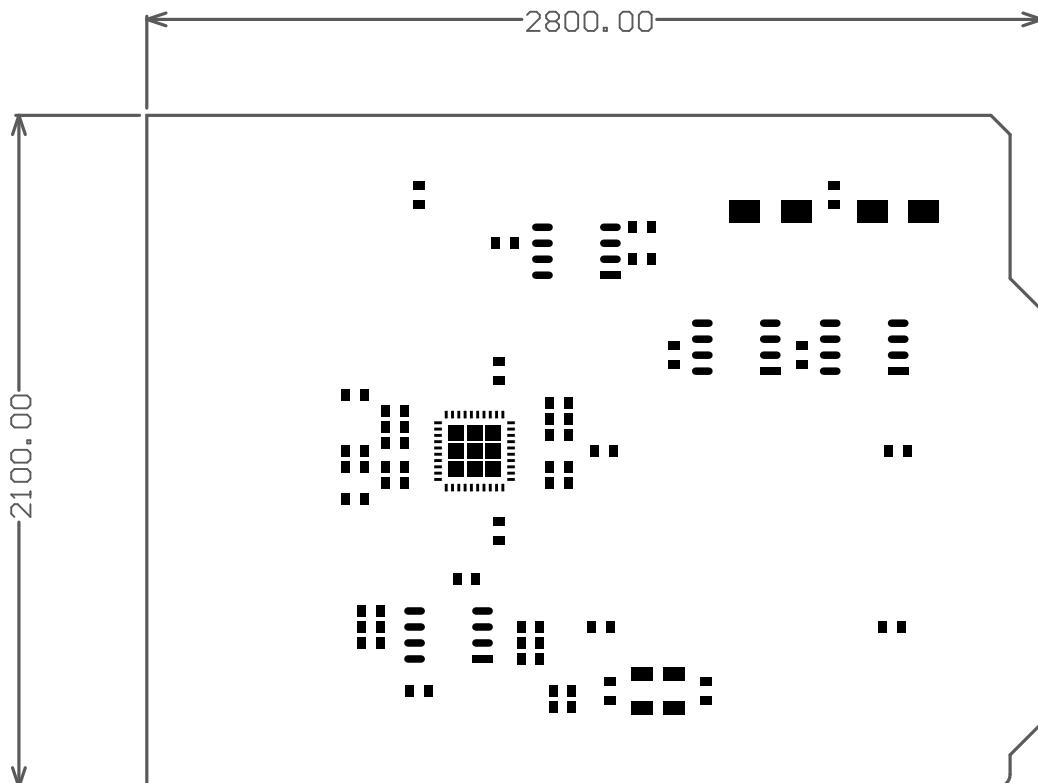
■ GM16 Board Details

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PROJECT: ILDA UNO Shield  
P/N: ILDA-UNO-1  
REVISION: A  
PRINT DATE: 7/6/2020  
PRINT TIME: 9:04:20 AM

LAYER DETAILS  
CLR EXT NAME

STACK ORDER: 4 LAYERS

ALL DIMENSIONS IN INCHES UNLESS INDICATED

1 oz	Cu	Top Layer (GTL)
------	----	-----------------

.0047	Prepreg 2113
-------	--------------

.0047	Prepreg 2113
-------	--------------

1 oz	Cu	Ground Plane (GP1)
------	----	--------------------

.040	FR-4
------	------

1 oz	Cu	Power Plane (GP2)
------	----	-------------------

.0047	Prepreg 2113
-------	--------------

.0047	Prepreg 2113
-------	--------------

1 oz	Cu	Bottom Layer (GBL)
------	----	--------------------

FINISHED THICKNESS: .062 (+/-10%)

FINISH: LEAD FREE SOLDER  
SOLDER MASK: GREEN

Top Solder (GTS)  
Bottom Solder (GBS)

SILK OVERLAY: WHITE, 2 SIDES  
Top Overlay (GTO)  
Bottom Overlay (GBO)

SMT COMPONENTS: 1 SIDE  
Top Paste (GTP)

CLEARANCE  
MIN TRACK: .010  
MIN SPACE: .006

COMPONENTS  
TOTAL: 61

DRILL  
PADS  
TOTAL: 247  
SMT TOP: 159  
SMT BOTTOM: 0

SLOT HOLES: 0

HOLDS: 168

SMALLEST: .007

TOLERANCE: +/- .005

VIAS  
TOTAL: 80  
BURIED: 0  
BLIND: 0

CONTACT:

Joe Fitzpatrick

jfitzpat@

scrootchme.com

■ GTP Top Paste

■ GM1 Board Outline

■ GM2 Board Dimensions

■ GM16 Board Details

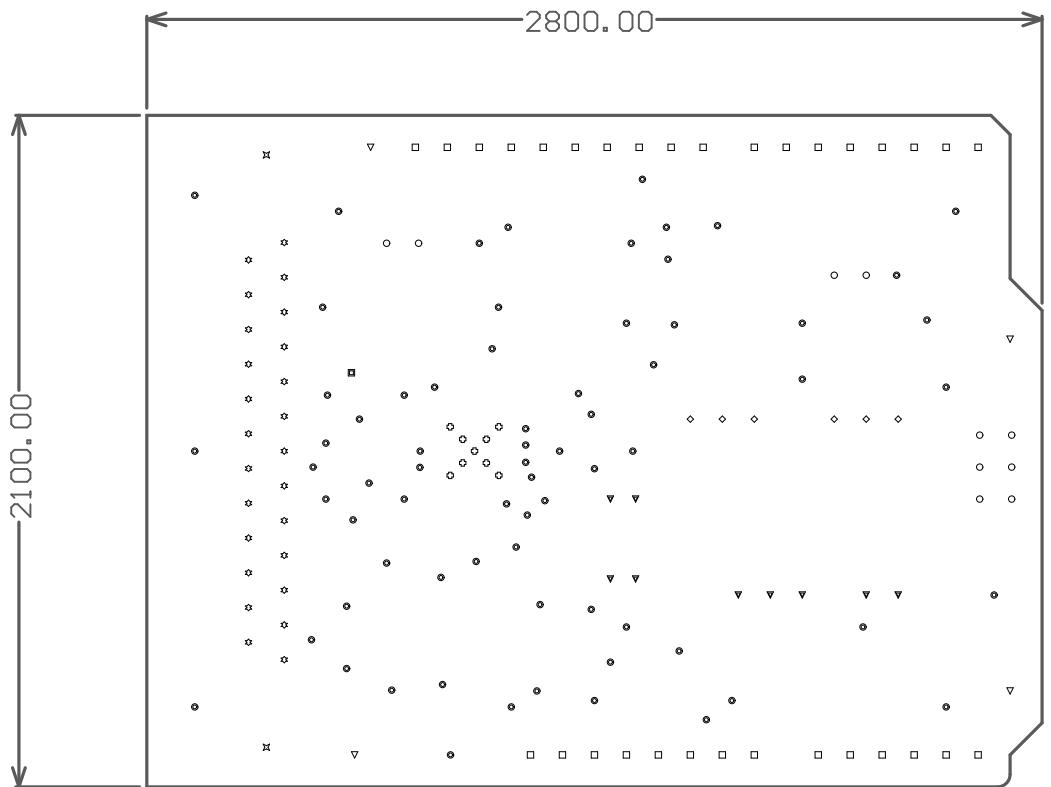
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Symbol	Count	Hole Size	Plated	Hole Type
□	1	28.00mil (0.711mm)	PTH	Round
✗	2	128.35mil (3.260mm)	PTH	Round
▽	4	126.00mil (3.200mm)	NPTH	Round
◊	6	35.00mil (0.889mm)	PTH	Round
✚	9	8.00mil (0.203mm)	PTH	Round
▼	9	39.00mil (0.991mm)	PTH	Round
○	10	35.43mil (0.900mm)	PTH	Round
❖	25	42.91mil (1.090mm)	PTH	Round
□	32	30.00mil (0.762mm)	PTH	Round
◎	70	15.00mil (0.381mm)	PTH	Round
168 Total				



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BMC

PROJECT: ILDA UNO Shield  
P/N: ILDA-UNO-1  
REVISION: A  
PRINT DATE: 7/6/2020  
PRINT TIME: 9:04:20 AM

STACK ORDER: 4 LAYERS  
ALL DIMENSIONS IN INCHES UNLESS INDICATED

1 oz Cu Top Layer (GTL)

.0047 Prepreg 2113

.0047 Prepreg 2113

1 oz Cu Ground Plane (GP1)

.040 FR-4

1 oz Cu Power Plane (GP2)

.0047 Prepreg 2113

.0047 Prepreg 2113

1 oz Cu Bottom Layer (GBL)

FINISHED THICKNESS: .062 (+/-10%)

FINISH: LEAD FREE SOLDER  
SOLDER MASK: GREEN

Top Solder (GTS)  
Bottom Solder (GBS)

SILK OVERLAY: WHITE, 2 SIDES  
Top Overlay (GTO)  
Bottom Overlay (GBO)

SMT COMPONENTS: 1 SIDE  
Top Paste (GTP)

CLEARANCE  
MIN TRACK: .010  
MIN SPACE: .006

COMPONENTS  
TOTAL: 61

DRILL  
TOTAL: 247  
SMT TOP: 159  
SMT BOTTOM: 0

SLOT HOLES: 0

HOLES: 168

SMALLEST: .007

TOLERANCE: +/- .005

VIAS  
TOTAL: 80  
BURIED: 0  
BLIND: 0

CONTACT:

Joe Fitzpatrick

jfitzpat@

scrootchme.com

GD1 Drill Drawing

GM1 Board Outline

GM2 Board Dimensions

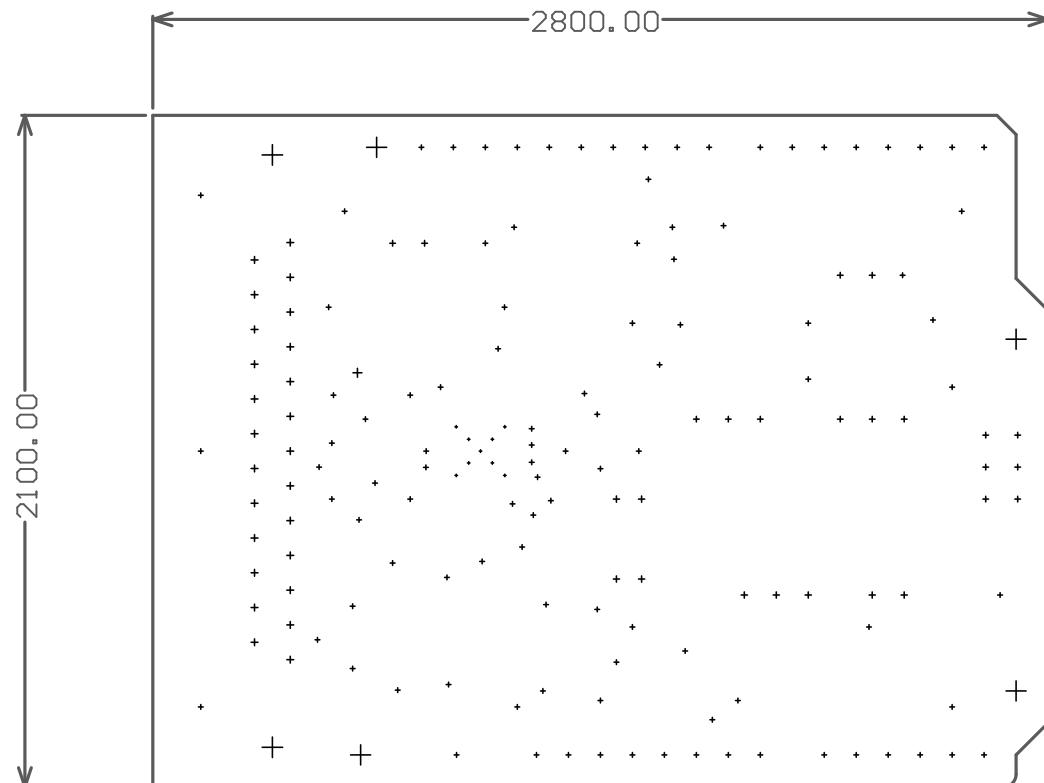
GM16 Board Details

NOTE: The contents of this frame are informational only and can be deleted from ALL Gerbers.

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PROJECT: ILDA UNO Shield  
P/N: ILDA-UNO-1  
REVISION: A  
PRINT DATE: 7/6/2020  
PRINT TIME: 9:04:20 AM

LAYER DETAILS  
CLR EXT NAME

STACK ORDER: 4 LAYERS

ALL DIMENSIONS IN INCHES UNLESS INDICATED

1 oz	Cu	Top Layer (GTL)
------	----	-----------------

.0047	Prepreg 2113
-------	--------------

.0047	Prepreg 2113
-------	--------------

1 oz	Cu	Ground Plane (GP1)
------	----	--------------------

.040	FR-4
------	------

1 oz	Cu	Power Plane (GP2)
------	----	-------------------

.0047	Prepreg 2113
-------	--------------

.0047	Prepreg 2113
-------	--------------

1 oz	Cu	Bottom Layer (GBL)
------	----	--------------------

FINISHED THICKNESS: .062 (+/-10%)

FINISH: LEAD FREE SOLDER

SOLDER MASK: GREEN

Top Solder (GTS)  
Bottom Solder (GBS)

SILK OVERLAY: WHITE, 2 SIDES

Top Overlay (GTO)  
Bottom Overlay (GBO)

SMT COMPONENTS: 1 SIDE

Top Paste (GTP)

#### CLEARANCE

MIN TRACK: .010  
MIN SPACE: .006

COMPONENTS

TOTAL: 61

#### DRILL

SLOT HOLES: 0  
HOLES: 168  
SMALLEST: .007  
TOLERANCE: +/- .005

#### PADS

TOTAL: 247  
SMT TOP: 159  
SMT BOTTOM: 0

VIAS

TOTAL: 80  
BURIED: 0  
BLIND: 0

CONTACT:  
Joe Fitzpatrick  
jfitzpat@scrootchme.com

**GG1 Drill Guide**

**GM1 Board Outline**

**GM2 Board Dimensions**

**GM16 Board Details**

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