

Current Sensor P/N: HAS 400-S

Brake Sensor P/N: MLH02KPSB06A

Title: **TOP.SchDoc**

Desc: -

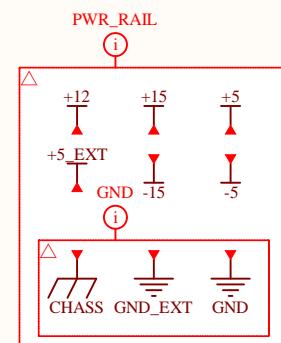
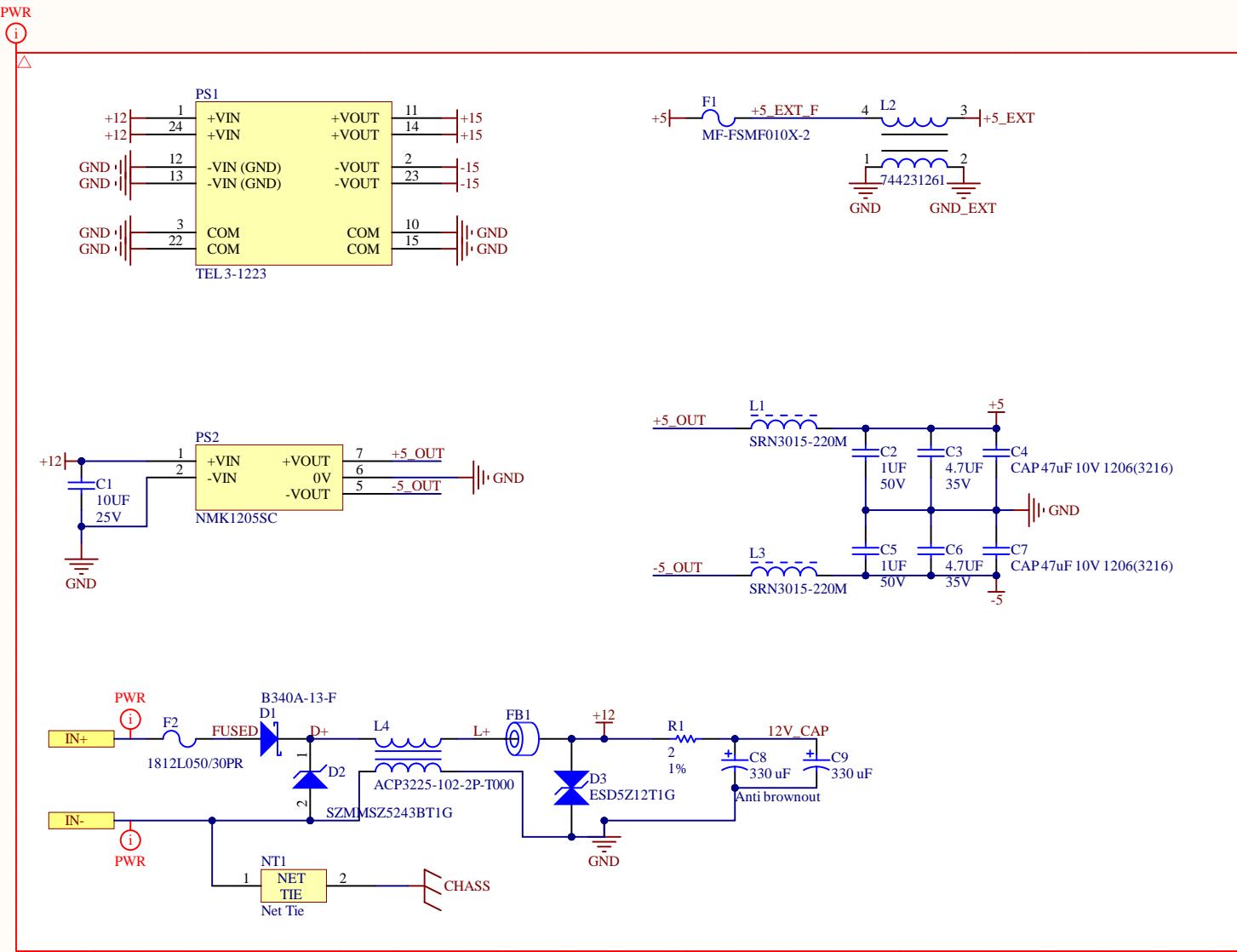
Size: Letter Auth: \* Proj: UVM AERO BSPD.PrjPcb

Date: 3/2/2020 12:51:12 AM Sheet 1 of 7

File: C:\git\AERO\_2019-2020\BSPD-2019-2020\Altium\TOP.SchDoc

**AERO**

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Title: **Power Supply.SchDoc**

Desc:

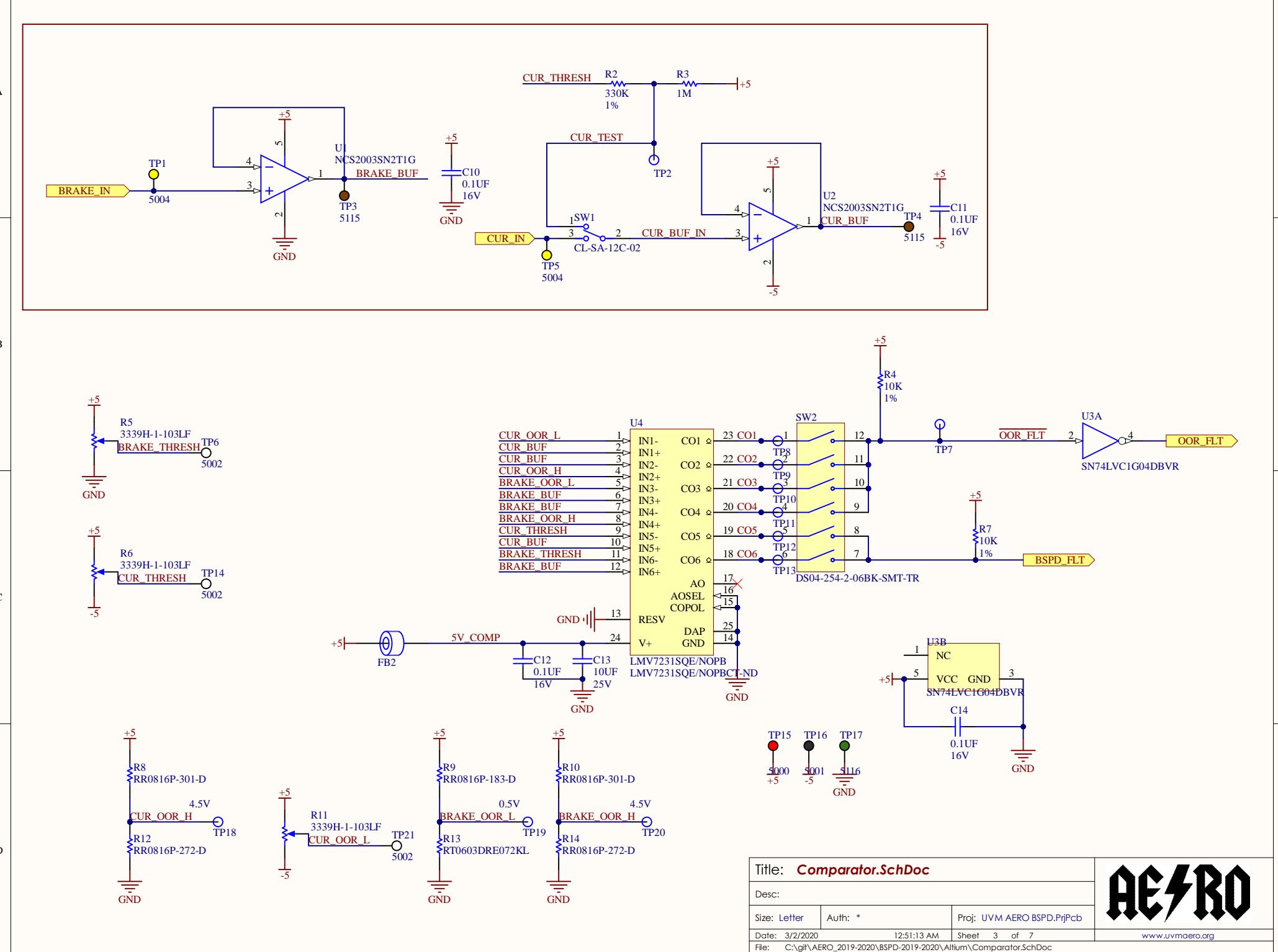
Size: Letter Auth: \* Proj: UVM AERO BSPD.PrjPcb

Date: 3/2/2020 12:51:12 AM Sheet 2 of 7

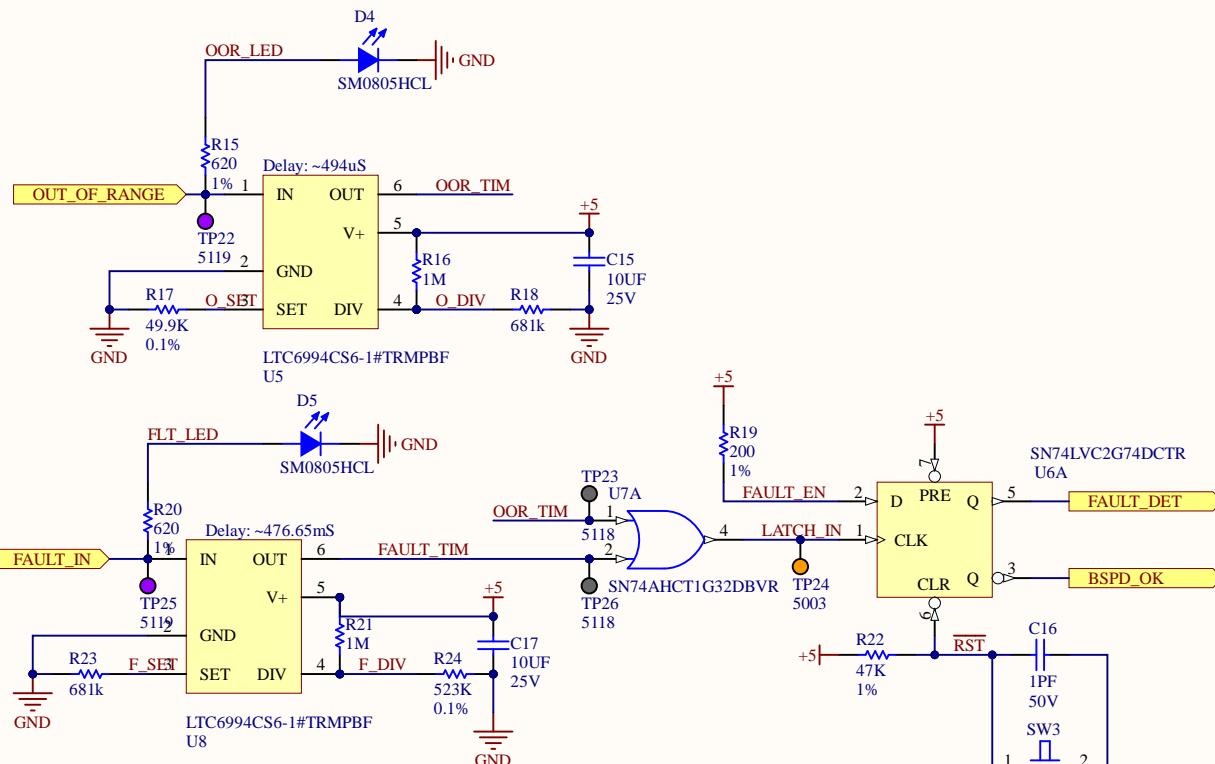
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**AERO**

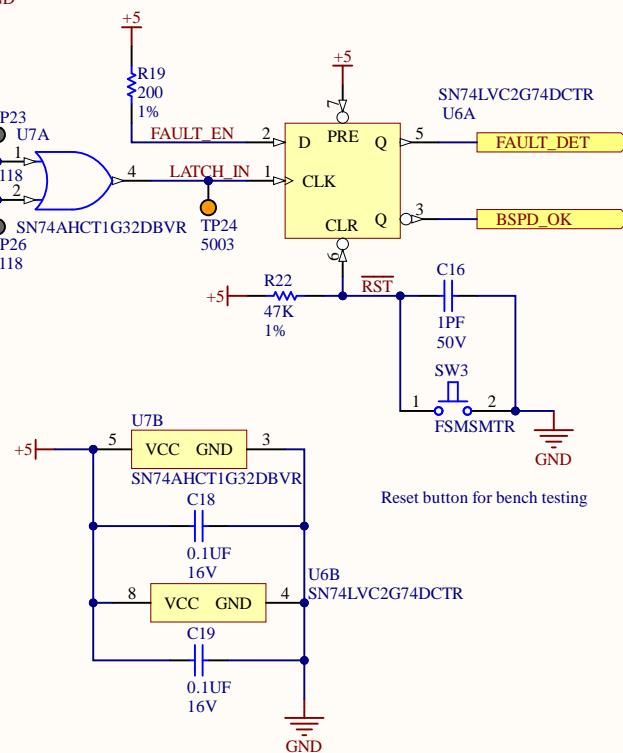
[www.uvmaero.org](http://www.uvmaero.org)



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See SIMS\LatchDelay

Title: **LatchDelay.SchDoc**

Desc:

Size: **Letter** Auth: \* Proj: **UVM AERO BSPD.PrjPcb**

Date: 3/2/2020 12:51:13 AM Sheet 4 of 7

File: C:\git\AERO\_2019-2020\BSPD-2019-2020\Altium\LatchDelay.SchDoc

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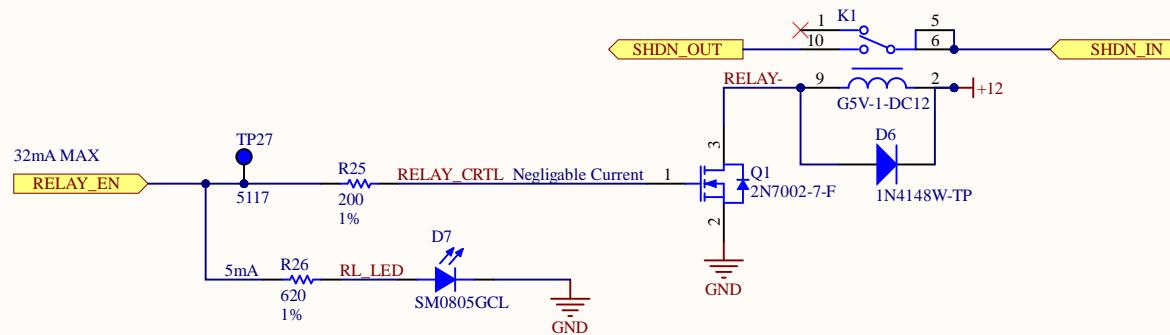
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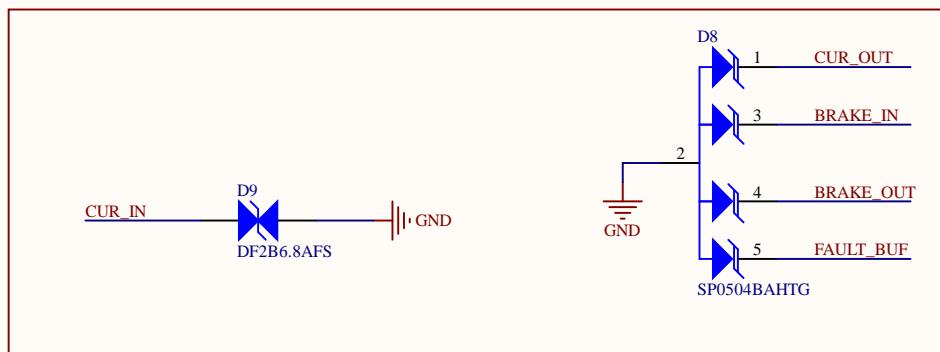
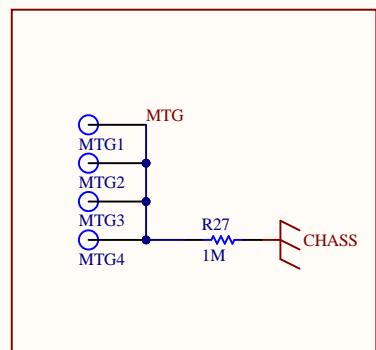
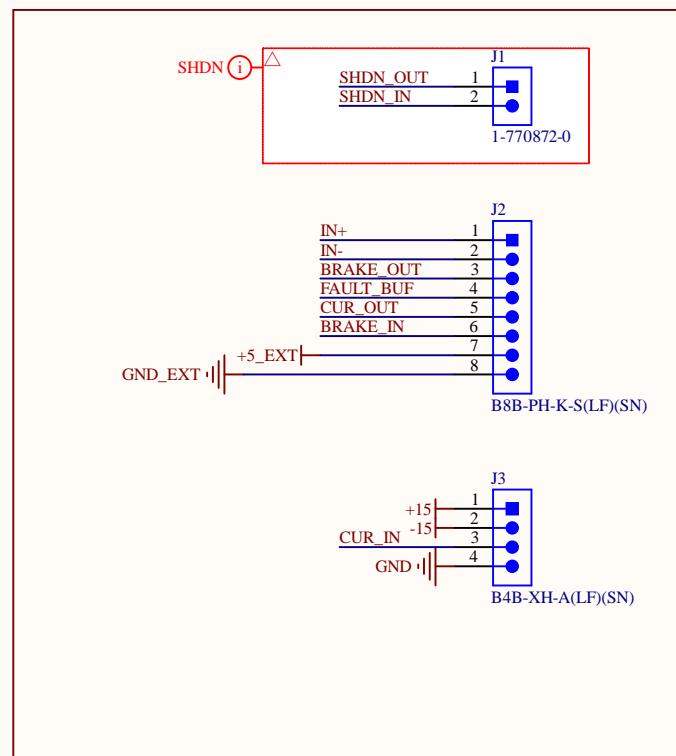
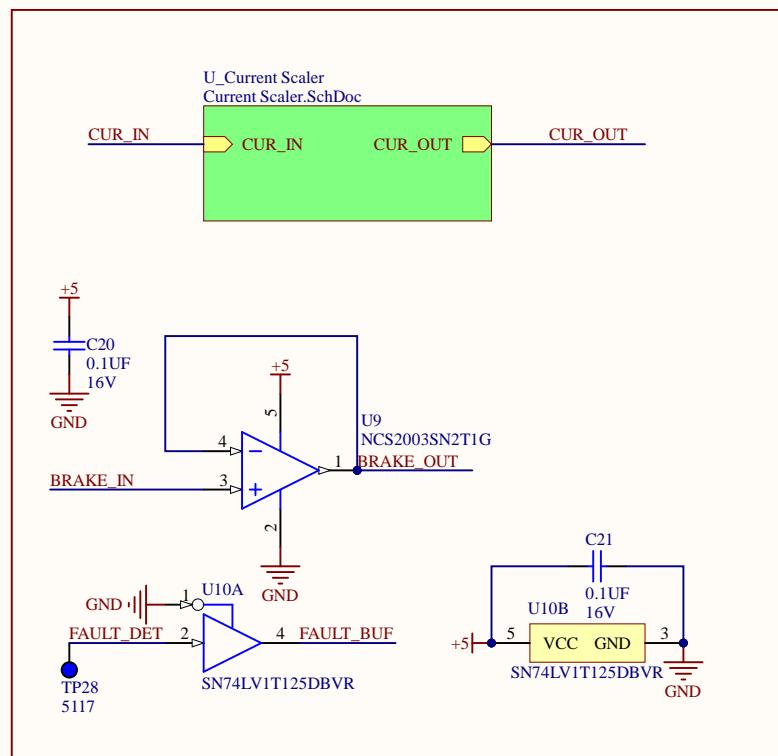
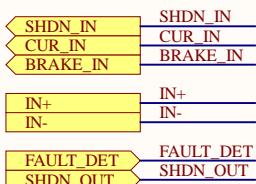
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Title: Relay.SchDoc				AE <sup>RO</sup> www.uvmaero.org	
Desc:					
Size: Letter	Auth: *	Proj: UVM AERO BSPD.PrjPcb			
Date: 3/2/2020	12:51:13 AM	Sheet 5	of 7		
File: C:\git\AERO_2019-2020\BSPD-2019-2020\Altium\Relay.SchDoc					



Title: **IO and Connectors.SchDoc**

Desc:

Size: Letter Auth: \* Proj: UVM AERO BSPD.PrjPcb

Date: 3/2/2020 12:51:13 AM Sheet 6 of 7

File: C:\git\AERO\_2019-2020\BSPD-2019-2020\Altium\IO and Connectors.SchDoc

**AERO**

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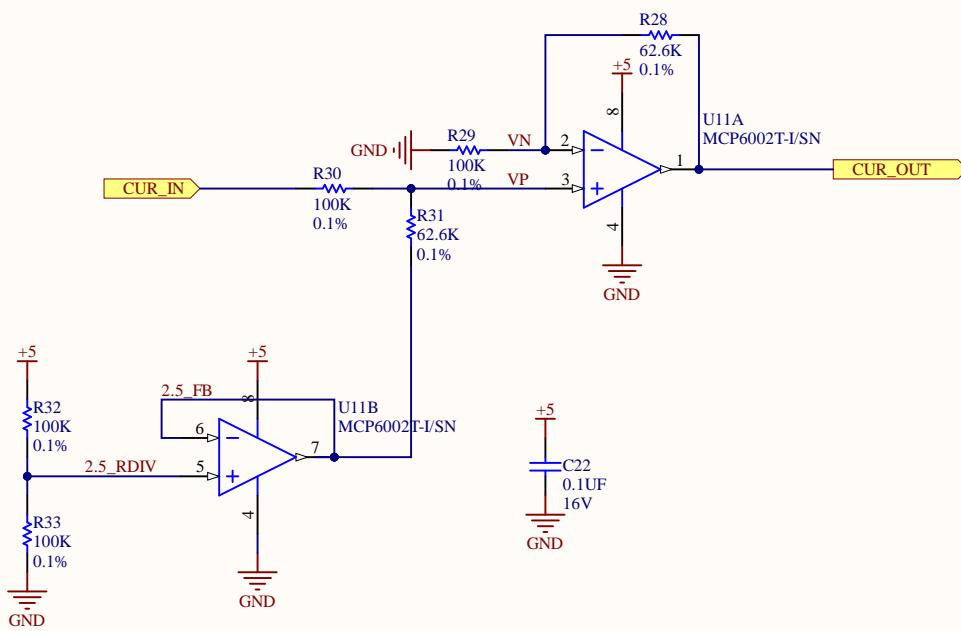
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Title: **Current Scaler.SchDoc**

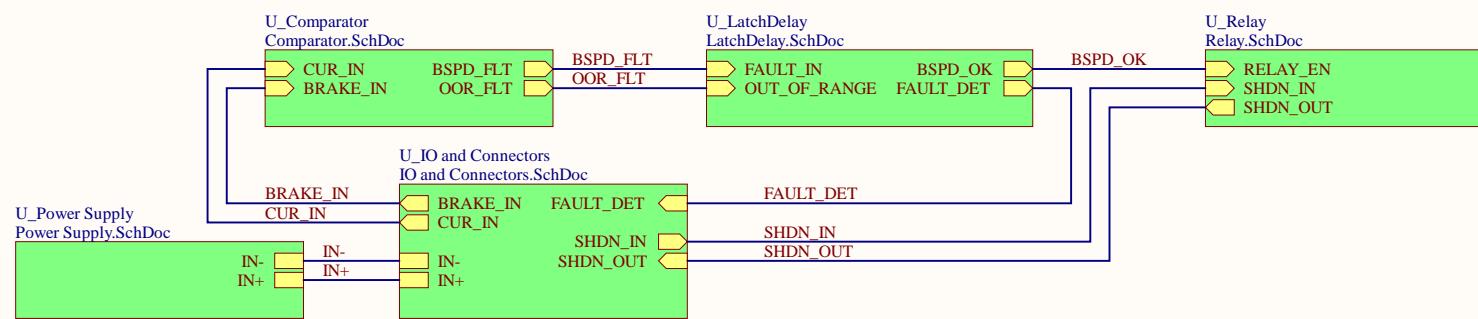
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Size: Letter Auth: \* Proj: UVM AERO BSPD.PrjPcb

Date: 3/2/2020 12:51:13 AM Sheet 7 of 7

File: C:\git\AERO\_2019-2020\BSPD-2019-2020\Altium\Current Scaler.SchDoc

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[www.uvmaero.org](http://www.uvmaero.org)



Current Sensor P/N: HAS 400-S

Brake Sensor P/N: MLH02KPSB06A

Title: **TOP.SchDoc**

Desc: -

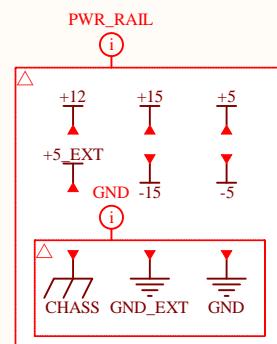
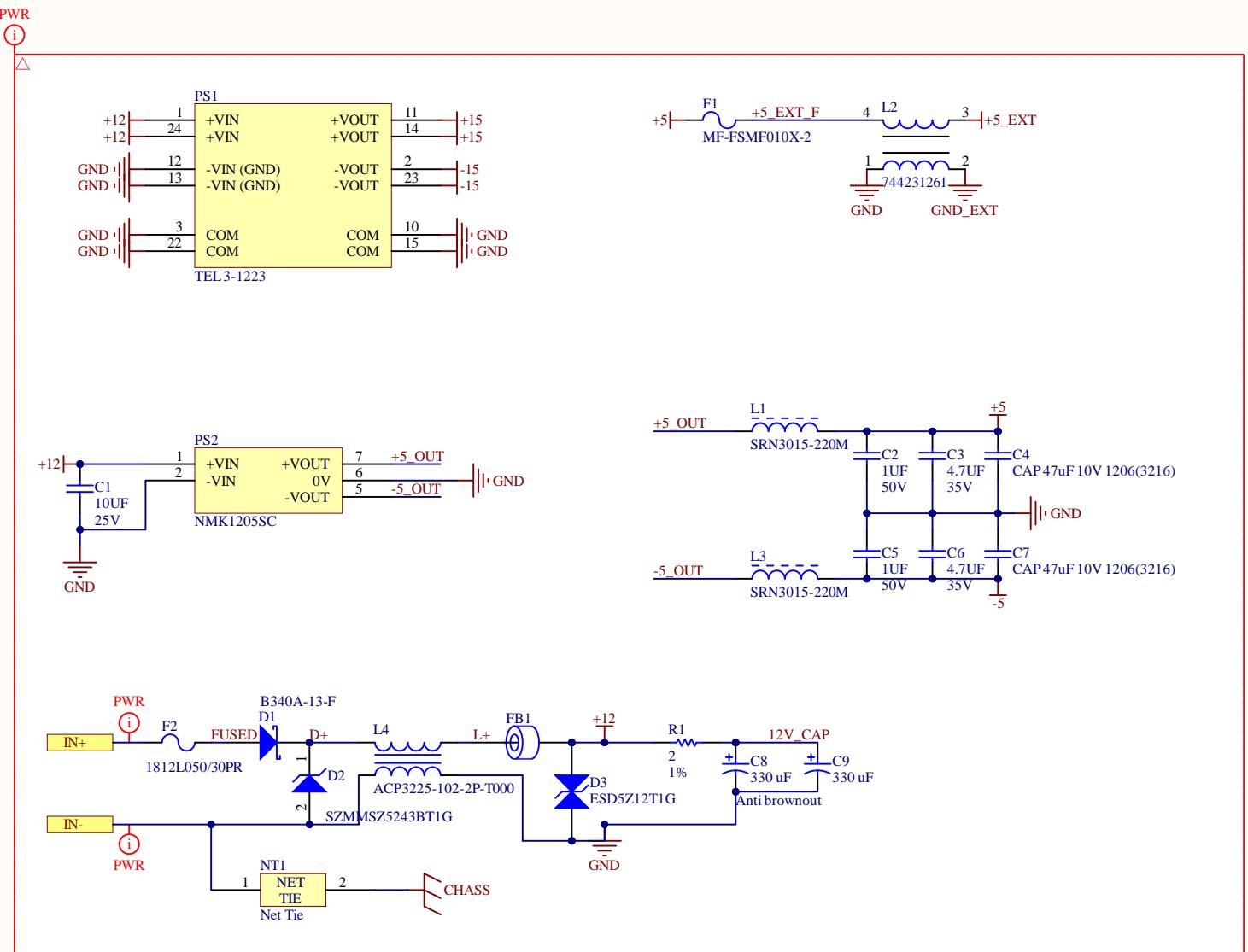
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Date: 3/2/2020 12:51:14 AM Sheet 1 of 7

File: C:\git\AERO\_2019-2020\BSPD-2019-2020\Altium\TOP.SchDoc

**AERO**

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Title: Power Supply SchDoc

Desc:

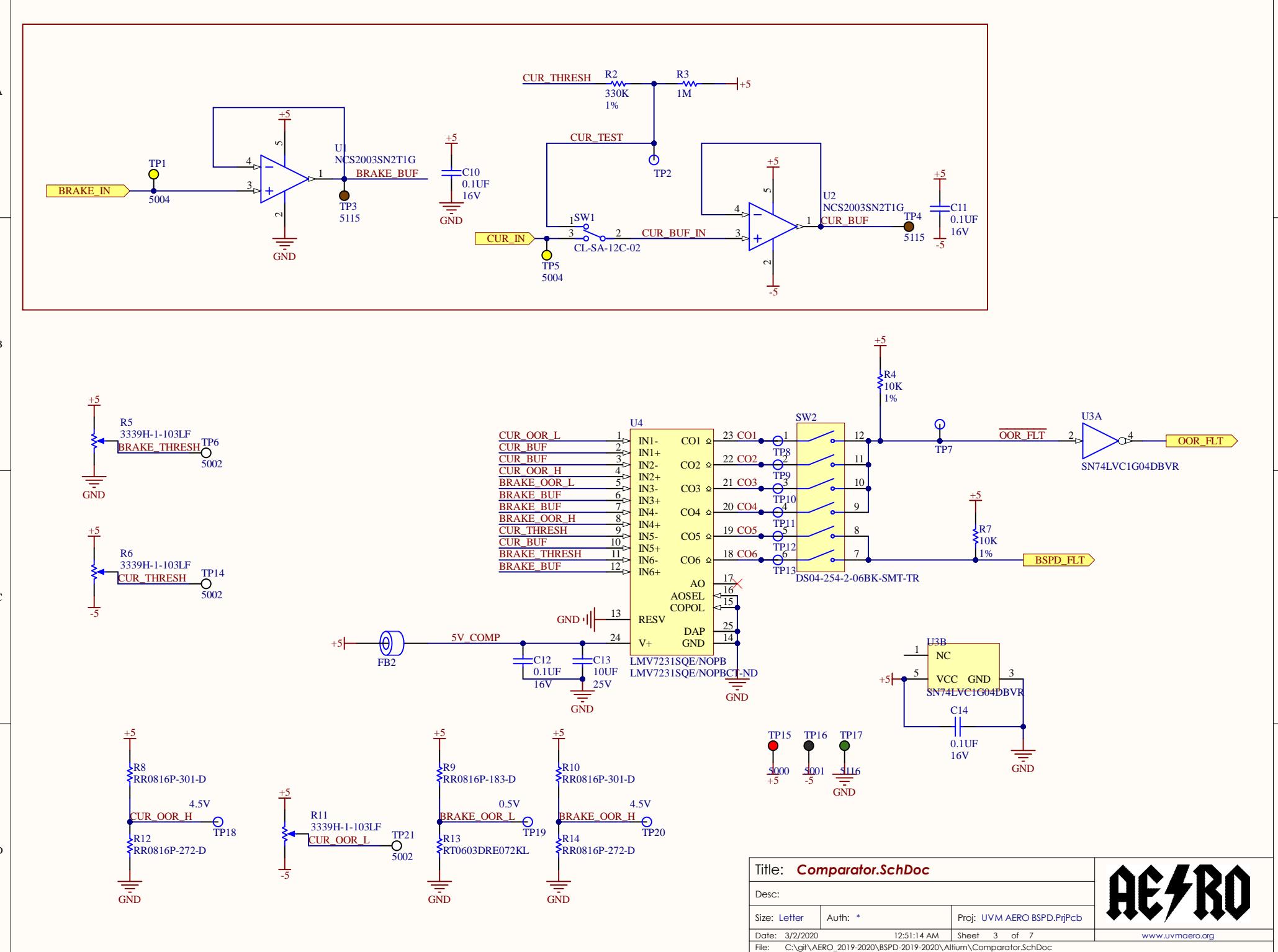
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Date: 3/2/2020 12:51:14 AM Sheet 2 of 7

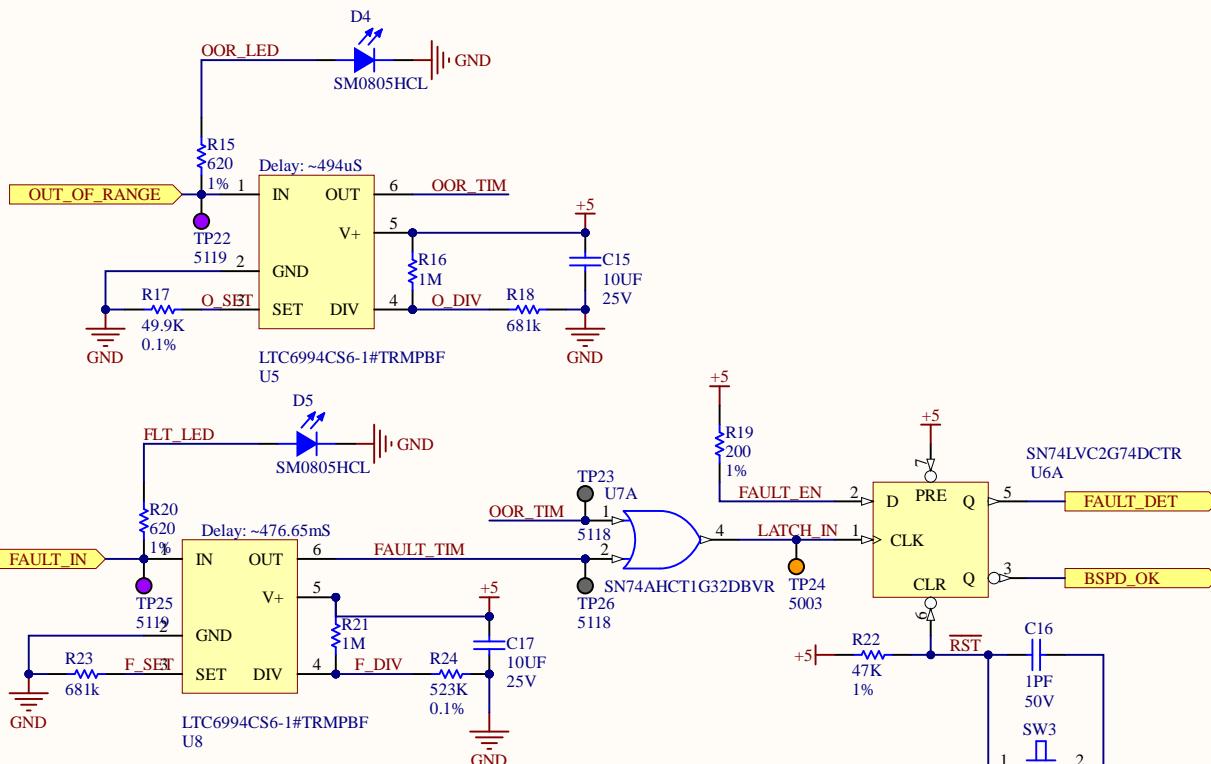
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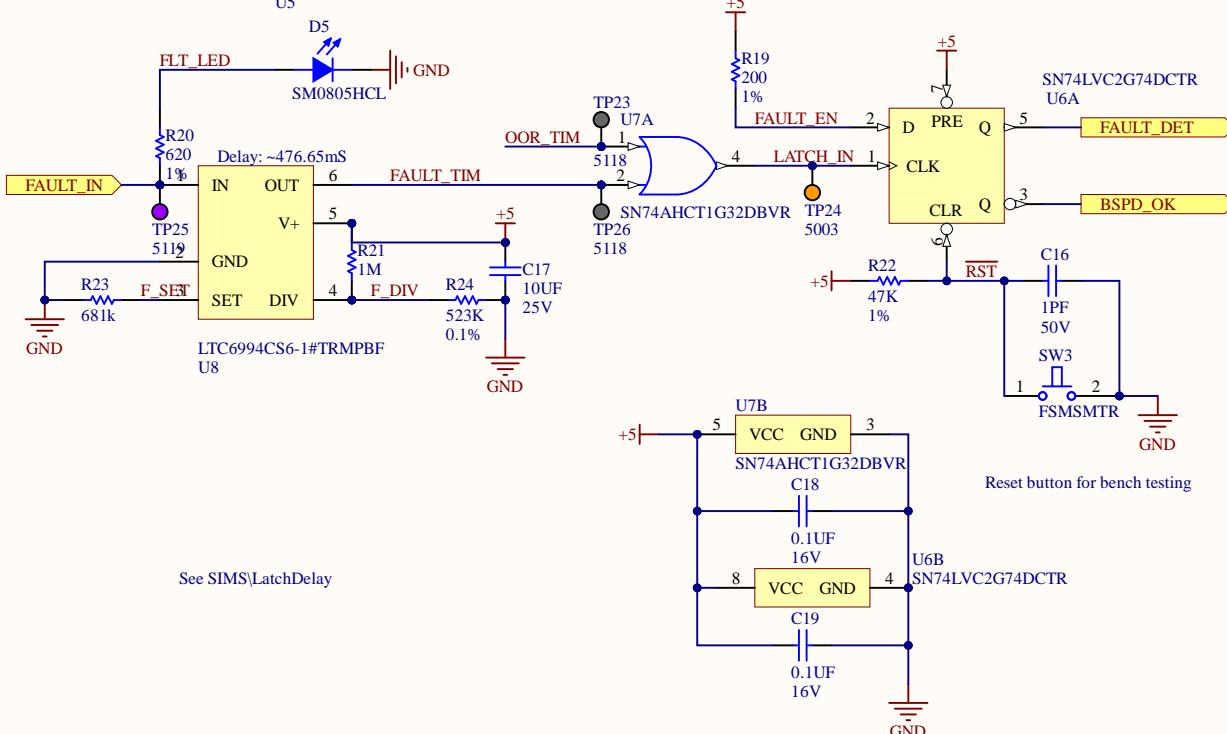
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Reset button for bench testing

Title: *LatchDelay.SchDoc*

Desc:

Size: Letter Auth: \* Proj: UVM AERO BSPD.PrjPcb

Date: 3/2/2020 12:51:14 AM Sheet 4 of 7

File: C:\git\AERO\_2019-2020\BSPD-2019-2020\Altium\LatchDelay.SchDoc

**AERO**

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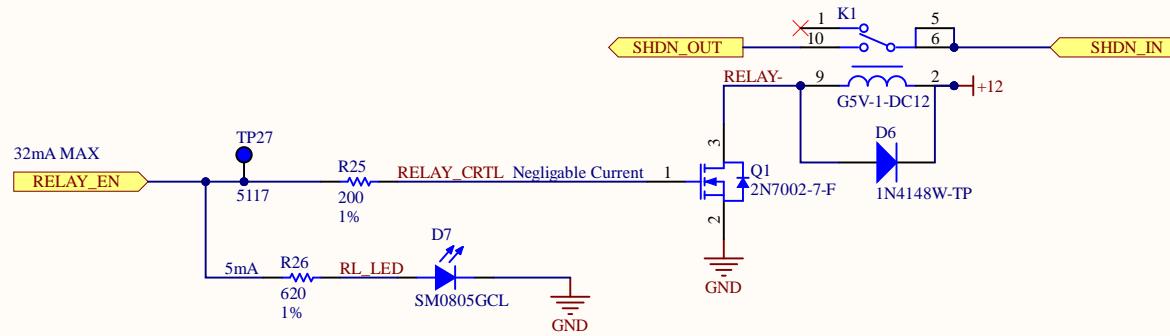
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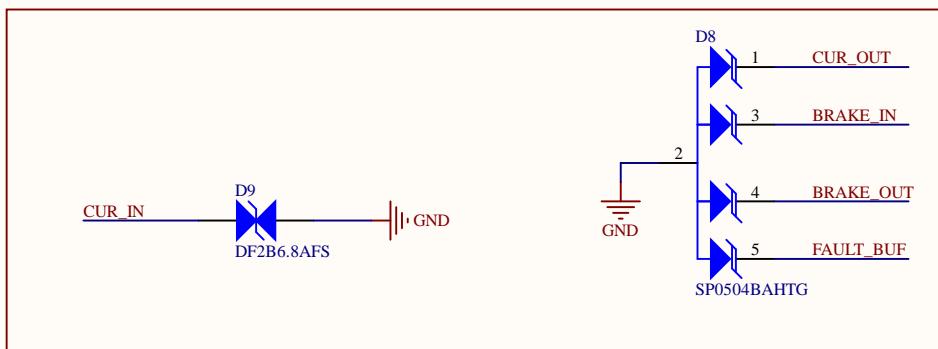
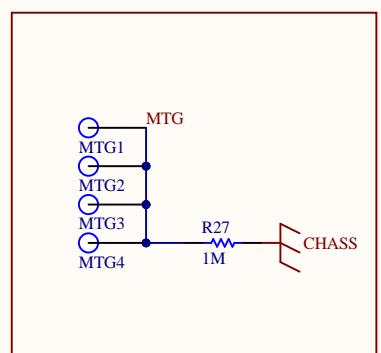
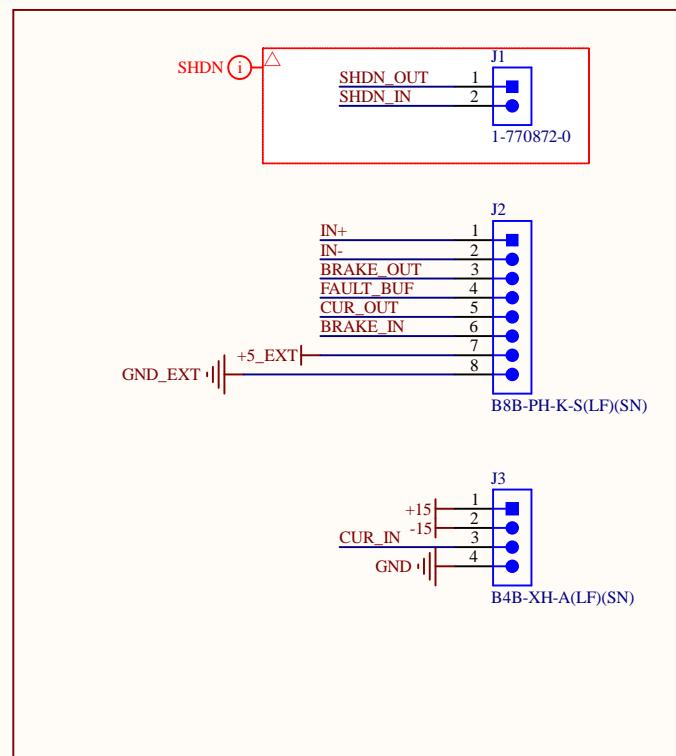
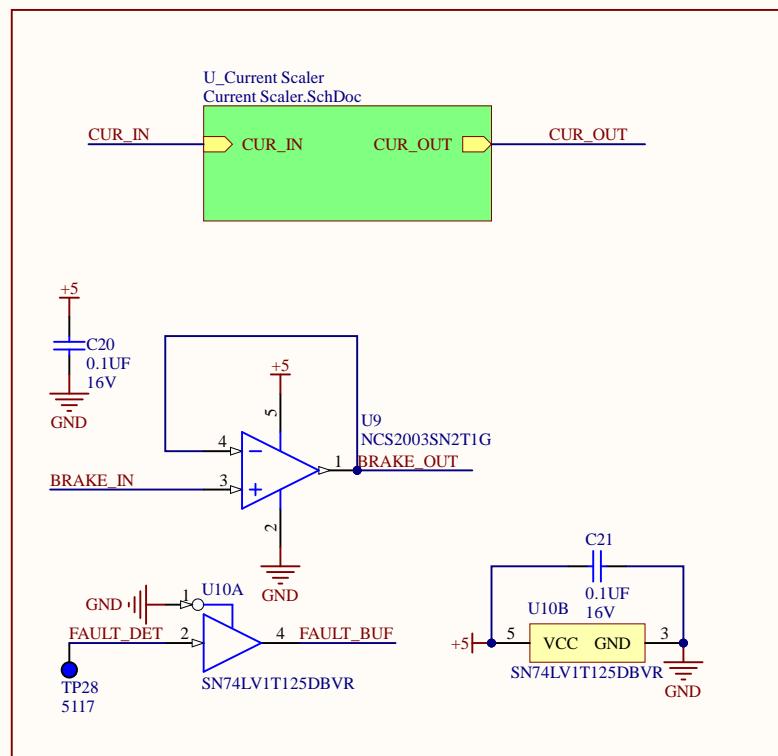
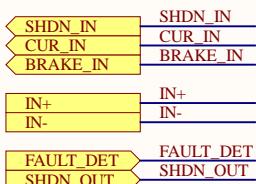
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Title: Relay.SchDoc				AE <sup>RO</sup> www.uvmaero.org	
Desc:					
Size: Letter	Auth: *	Proj: UVM AERO BSPD.PrjPcb			
Date: 3/2/2020	12:51:15 AM	Sheet 5	of 7		
File: C:\git\AERO_2019-2020\BSPD-2019-2020\Altium\Relay.SchDoc					



Title: **IO and Connectors.SchDoc**

Desc:

Size: Letter Auth: \* Proj: UVM AERO BSPD.PrjPcb

Date: 3/2/2020 12:51:15 AM Sheet 6 of 7

File: C:\git\AERO\_2019-2020\BSPD-2019-2020\Altium\IO and Connectors.SchDoc

**AERO**

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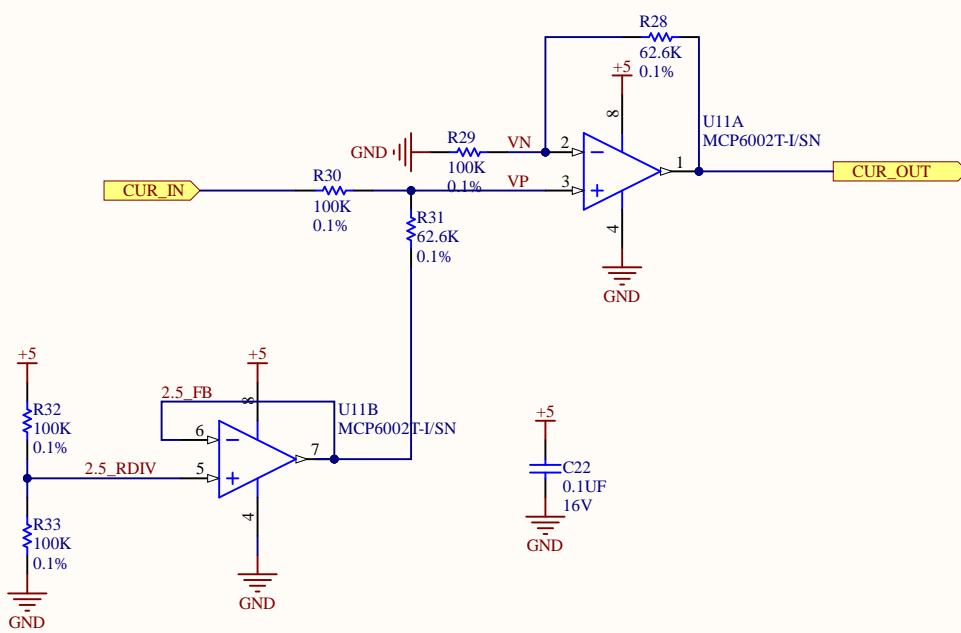
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Title: **Current Scaler.SchDoc**

Desc:

Size: Letter Auth: \* Proj: UVM AERO BSPD.PrjPcb

Date: 3/2/2020 12:51:15 AM Sheet 7 of 7

File: C:\git\AERO\_2019-2020\BSPD-2019-2020\Altium\Current Scaler.SchDoc

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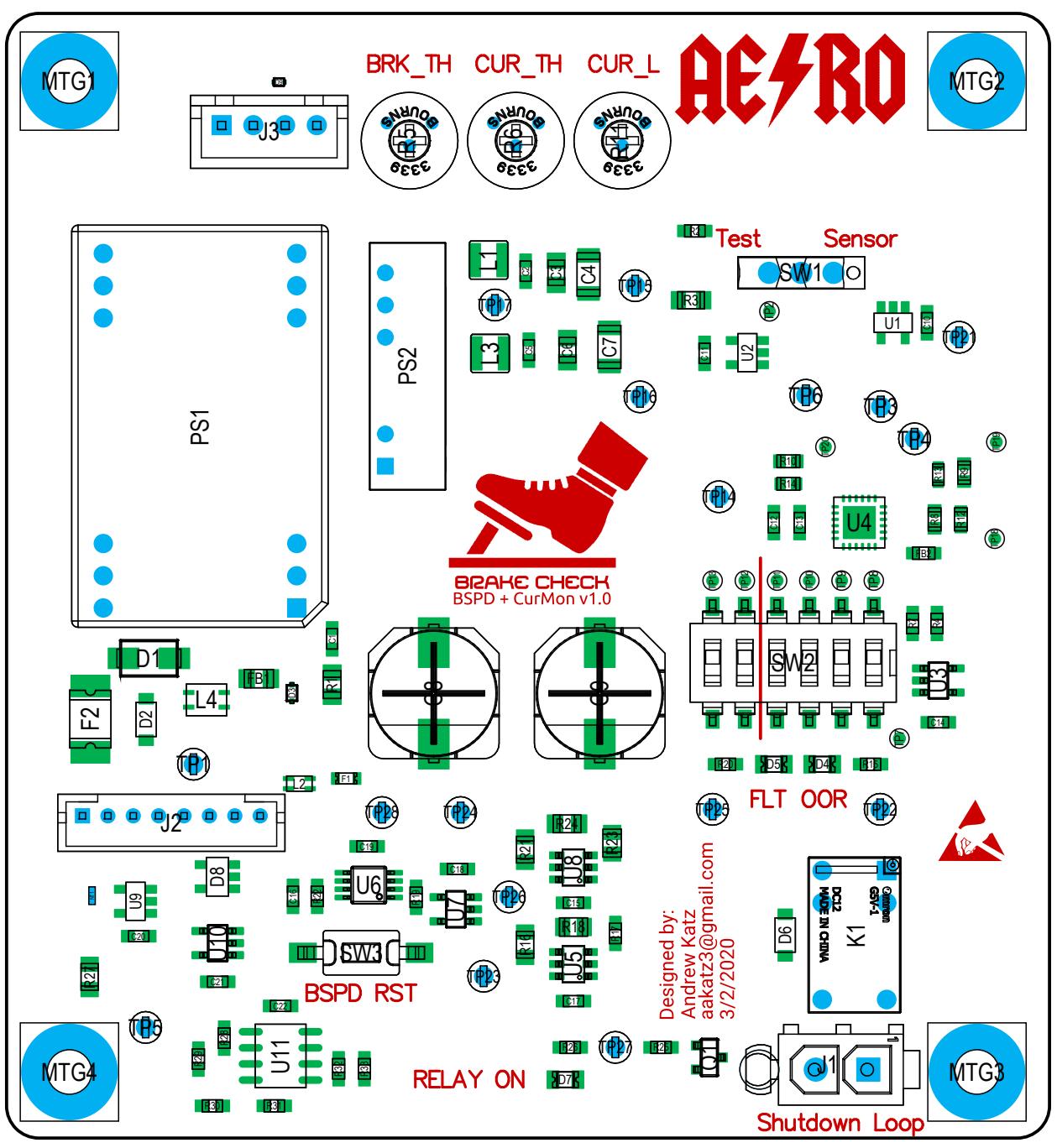
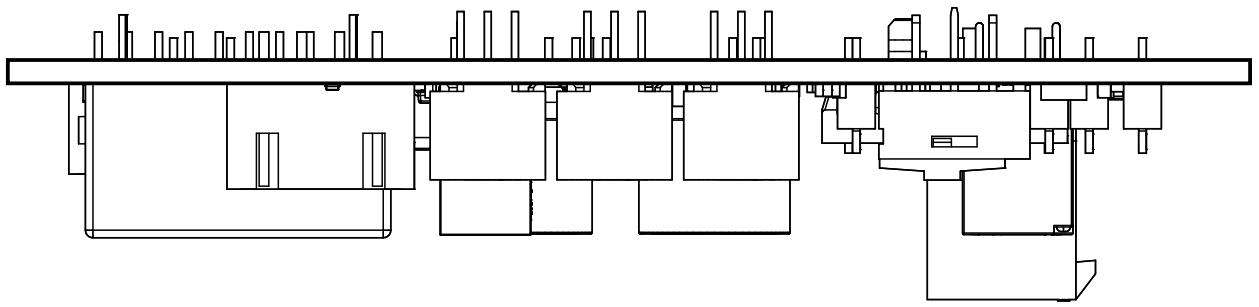
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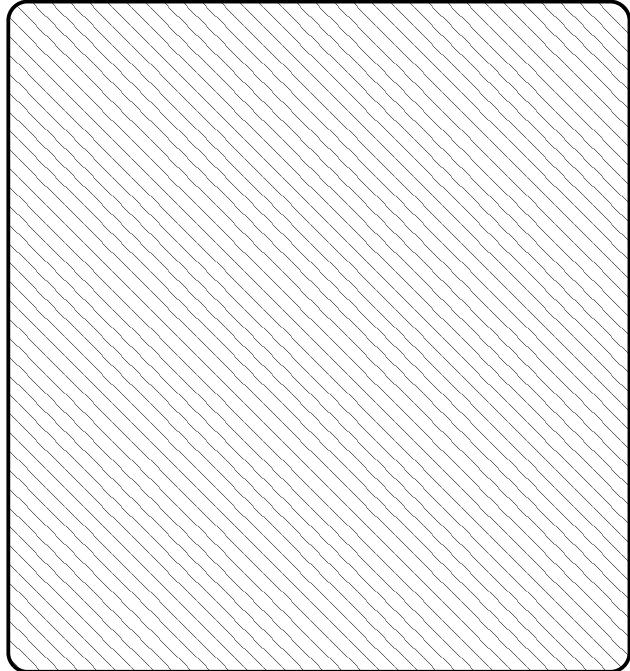
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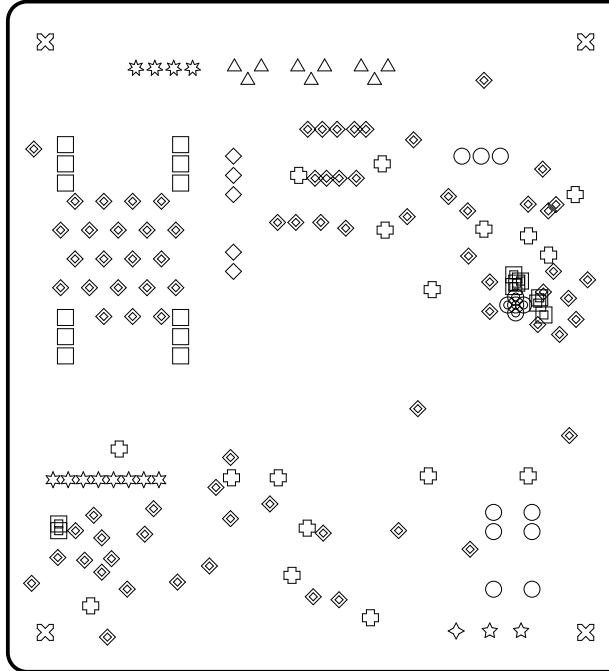
F



Region View (Scale 1:1)



Drill Drawing View (Scale 1:1)



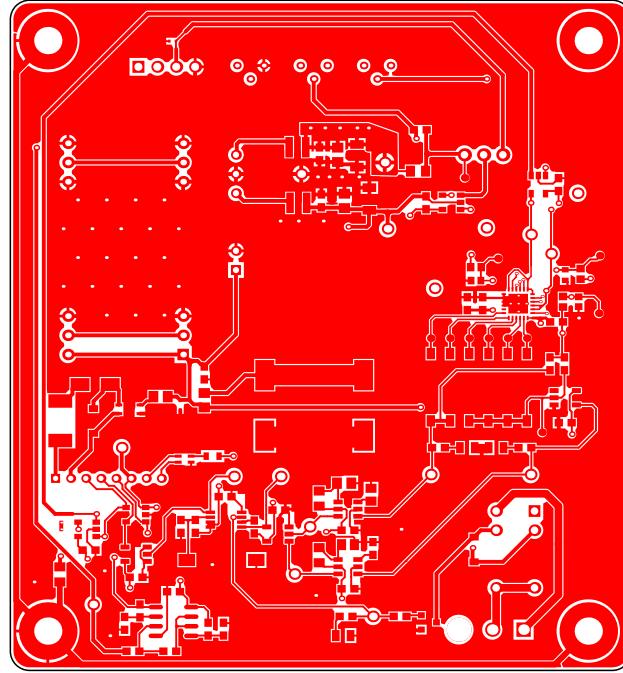
Drill Table

Symbol	Count	Hole Size	Plated
○	5	7.87mil	Есть
□	9	9.00mil	Есть
◊	79	15.00mil	Есть
△	9	20.00mil	Есть
☆	8	27.56mil	Есть
□	12	30.00mil	Есть
◊	5	32.28mil	Есть
○	9	39.37mil	Есть
+	17	40.00mil	Есть
✳	4	41.73mil	Есть
☆	2	55.00mil	Есть
◊	1	125.00mil	Нет
✗	4	142.00mil	Есть
164 Total			

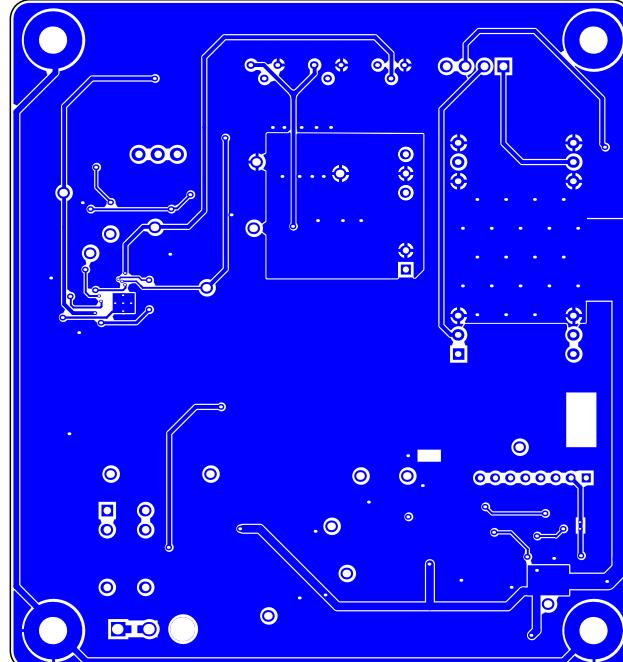
Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	1.00mil(0.02540mm)	SM-001	Solder Mask	GTS
PbSn	Top Surface Finish	0.79mil(0.01999mm)		Surface Finish	
Cu	Top Layer	1.40mil(0.03556mm)		Signal	GTL
	Core			Dielectric	
		58.00mil(1.47320mm) FR-4			
Cu	Bottom Layer	1.40mil(0.03556mm)		Signal	GBL
PbSn	Bottom Surface Finish	0.79mil(0.01999mm)		Surface Finish	
Surface Material	Bottom Solder	1.00mil(0.02540mm)	SM-001	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
Total thickness: 64.37mil(1.63510mm)					

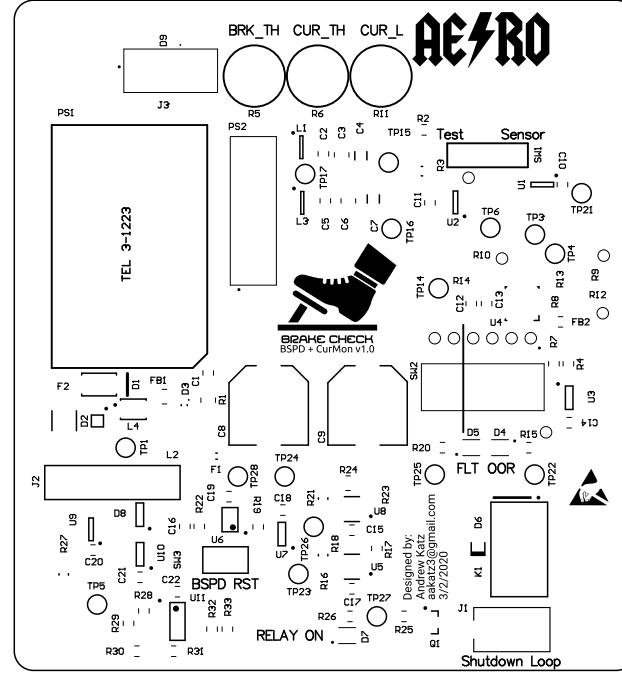
### Top Layer (Scale 1:1)



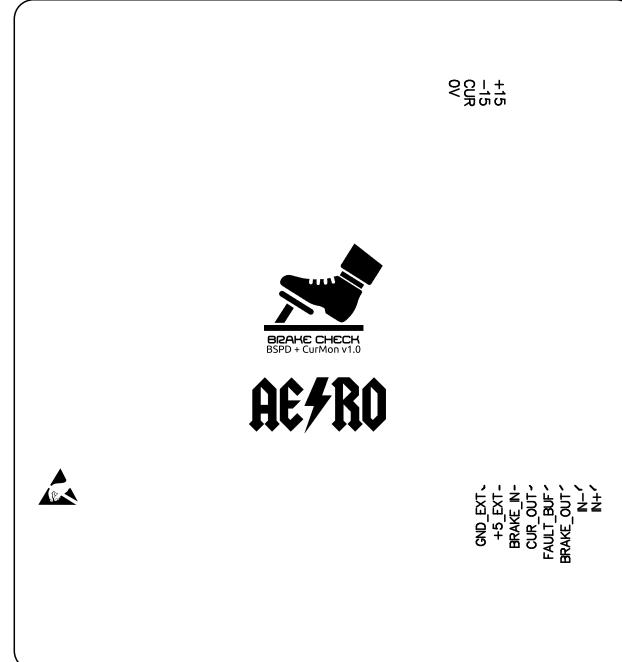
### Bottom Layer (Scale 1:1)



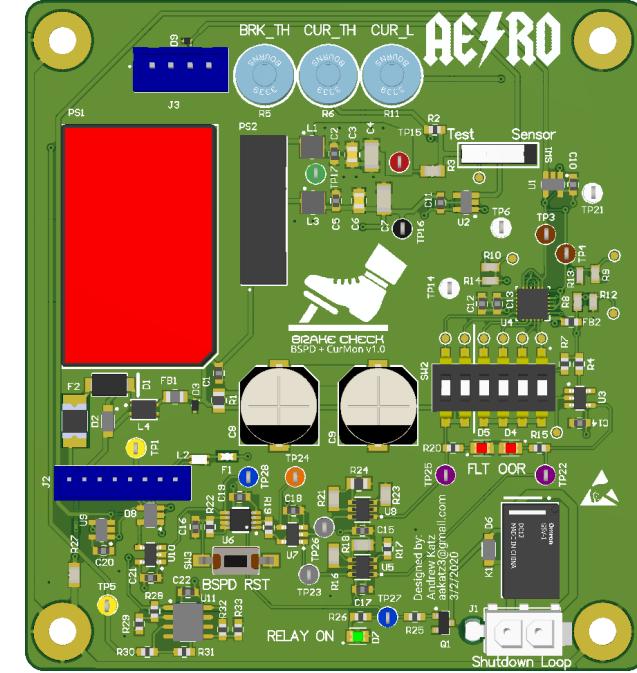
Top Overlay (Scale 1:1)



## Bottom Overlay (Scale 1:1)



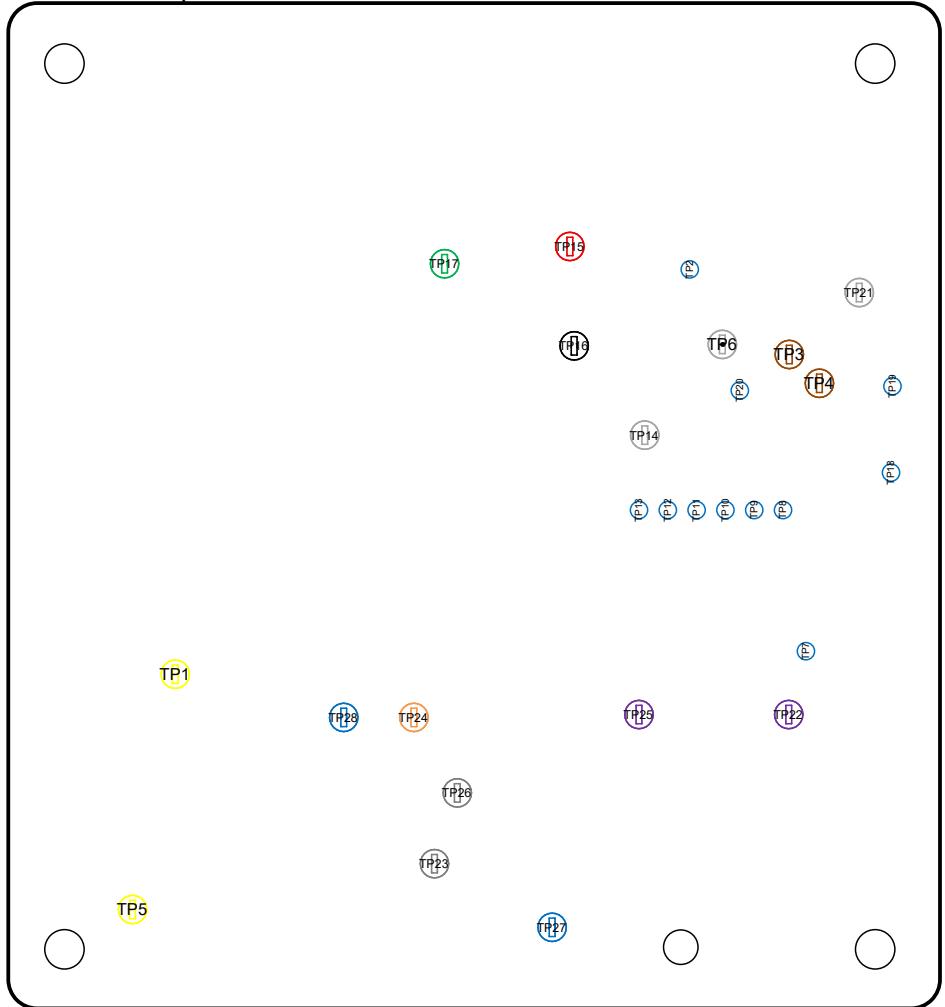
## Realistic View



## Realistic View



## A Test Point Map



## B Bill Of Materials (Test Points)

Line #	Designator	Name	Quantity	Color
7	TP15	5000	1	Red
8	TP16	5001	1	Black
9	TP6, TP14, TP21	5002	3	White
10	TP24	5003	1	Orange
11	TP1, TP5	5004	2	Yellow
12	TP3, TP4	5115	2	Brown
13	TP17	5116	1	Green
14	TP27, TP28	5117	2	Blue
15	TP23, TP26	5118	2	Grey
16	TP22, TP25	5119	2	Purple

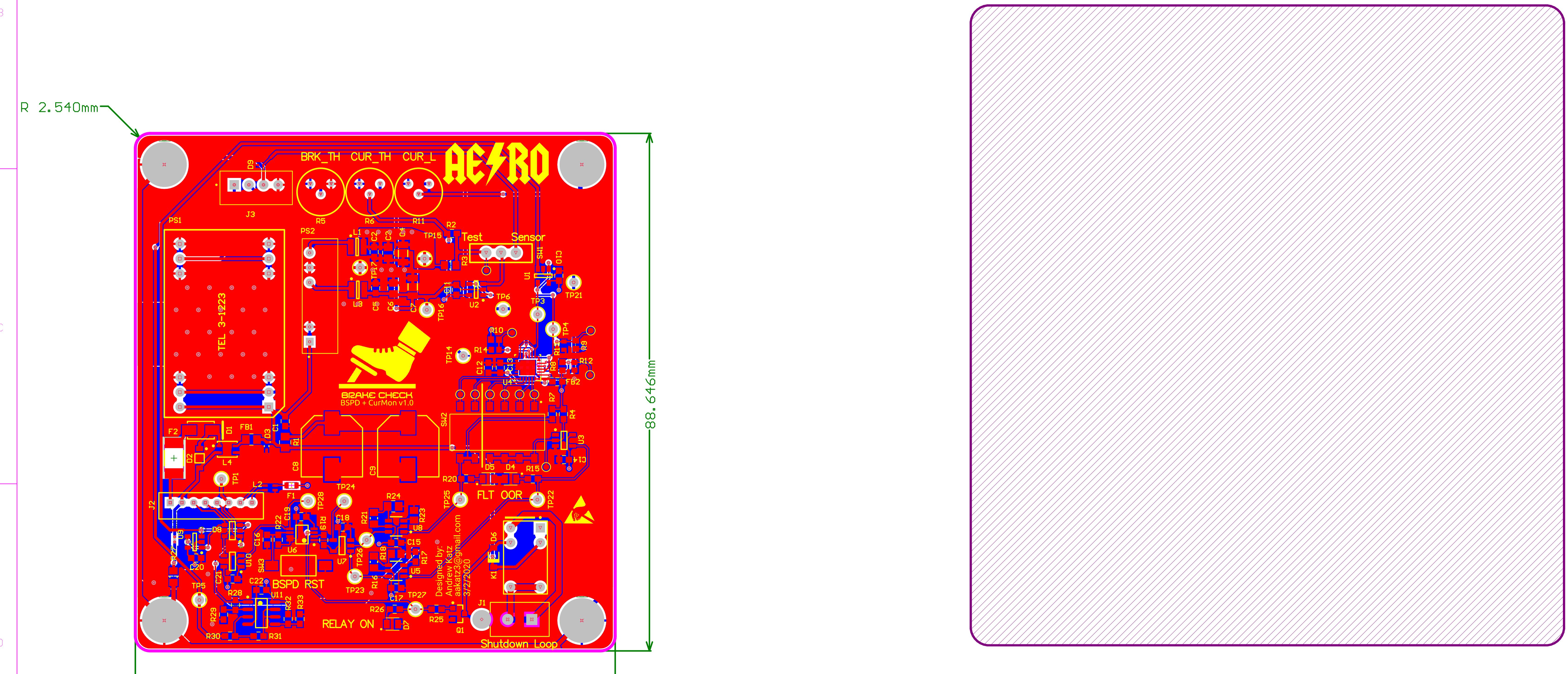
## C Testpoint Reference

Testpoint	Net
TP1	BRAKE_IN
TP2	CUR_TEST
TP3	BRAKE_BUF
TP4	CUR_BUF
TP5	CUR_IN
TP6	BRAKE_THRESH
TP7	\OOR_FLT
TP8	CO1
TP9	CO2
TP10	CO3
TP11	CO4
TP12	CO5
TP13	CO6
TP14	CUR_THRESH
TP15	5
TP16	-5
TP17	GND
TP18	CUR_OOR_H
TP19	BRAKE_OOR_L
TP20	BRAKE_OOR_H
TP21	CUR_OOR_L
TP22	OOR_FLT
TP23	OOR_TIM
TP24	LATCH_IN
TP25	BSPD_FLT
TP26	FAULT_TIM
TP27	BSPD_OK
TP28	FAULT_DET

Symbol	Count	Hole Size	Plated	Hole Type	Via/Pad	Pad Shape	Template
◊	1	125.00mil (3.175mm)	NPTH	Round	Pad	Rounded	c318hn318m0mx0
☒	2	55.00mil (1.397mm)	PTH	Round	Pad	(Mixed)	(Mixed)
○	4	41.73mil (1.060mm)	PTH	Round	Pad	(Mixed)	(Mixed)
☒	4	142.00mil (3.607mm)	PTH	Round	Pad	Rounded	c762h361
☒	5	7.87mil (0.200mm)	PTH	Round	Via	Rounded	v50h20
☒	5	32.28mil (0.820mm)	PTH	Round	Pad	(Mixed)	(Mixed)
□	8	27.56mil (0.700mm)	PTH	Round	Pad	(Mixed)	(Mixed)
☒	9	9.00mil (0.229mm)	PTH	Round	(Mixed)	(Mixed)	(Mixed)
▽	9	20.00mil (0.508mm)	PTH	Round	Pad	Rounded	c102h51p25502
▽	9	39.37mil (1.000mm)	PTH	Round	Pad	(Mixed)	(Mixed)
□	12	30.00mil (0.762mm)	PTH	Round	Pad	(Mixed)	(Mixed)
✚	17	40.00mil (1.016mm)	PTH	Round	Pad	Rounded	c155h102
☒	79	15.00mil (0.381mm)	PTH	Round	Via	Rounded	v76h38
164 Total							

Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
2	Bottom Layer	Copper	1.40mil		GBL	
	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil



Title: <b>BSPD</b>			Designer: Andrew Katz aakatz3@gmail.com
Size: Letter	Number:	Revision:	*
Date: 3/2/2020	Time: 12:50:42 AM	Sheet 1 of 1	*
File: UVM_AERO_BSPD.PcbDoc			

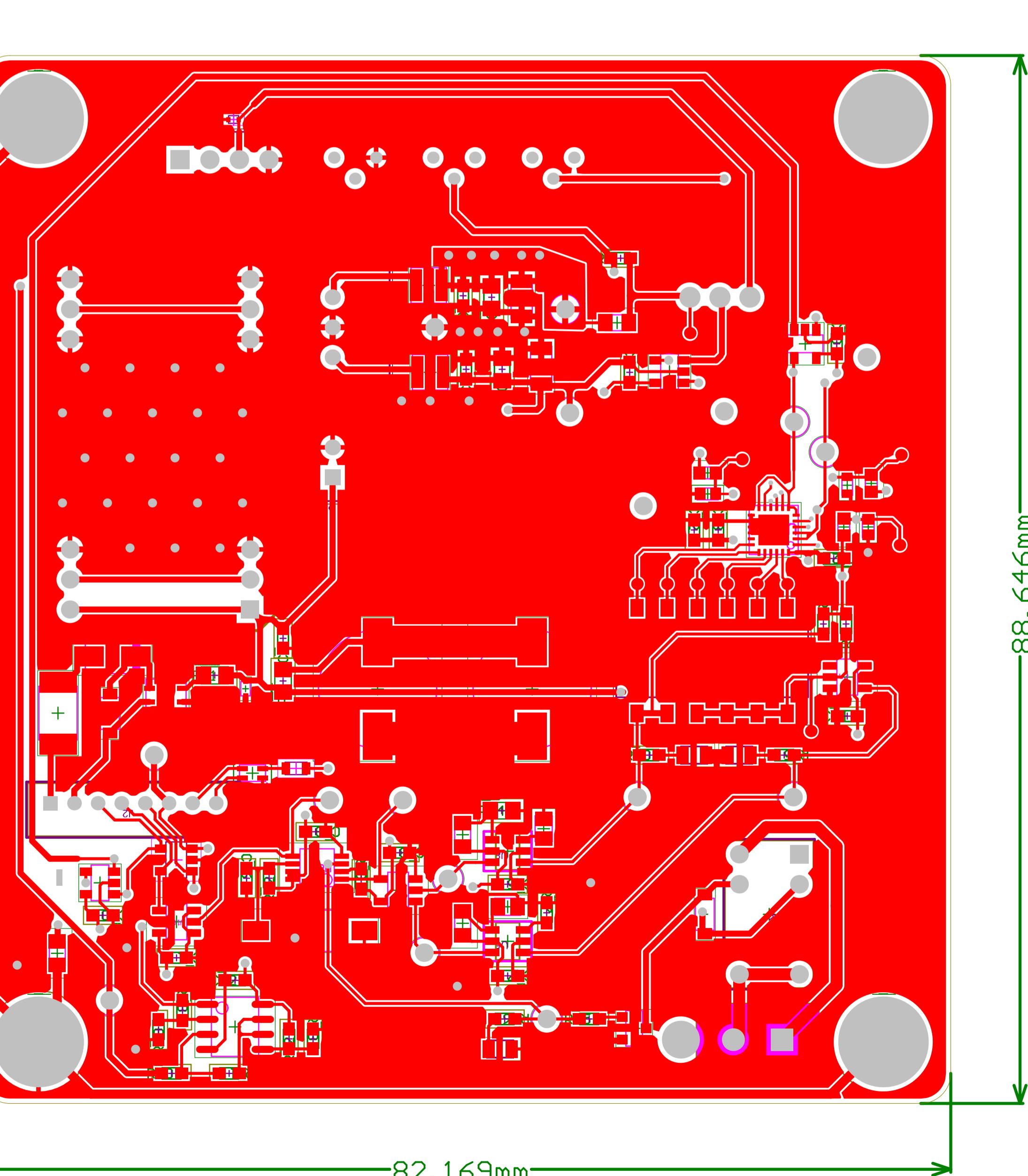
**ACERO**

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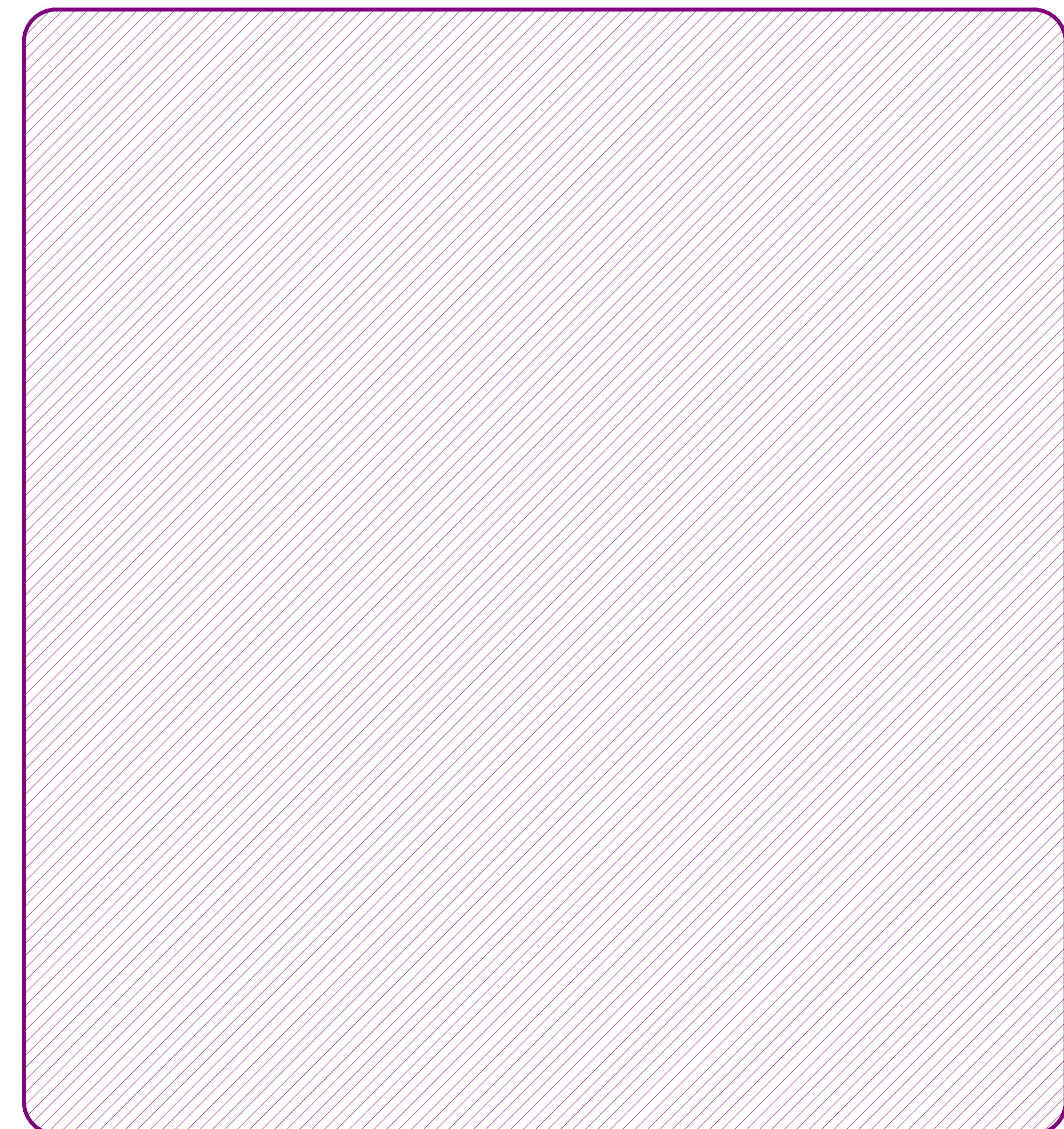
C

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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
2	Bottom Layer	Copper	1.40mil		GBL	
	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil



Title: BSPD	Designer: Andrew Katz aakatz3@gmail.com
Size: Letter	Number:
Date: 3/2/2020	Revision:
Time: 12:50:42 AM	Sheet 1 of 1
File: UVM AERO BSPD.PcbDoc	*

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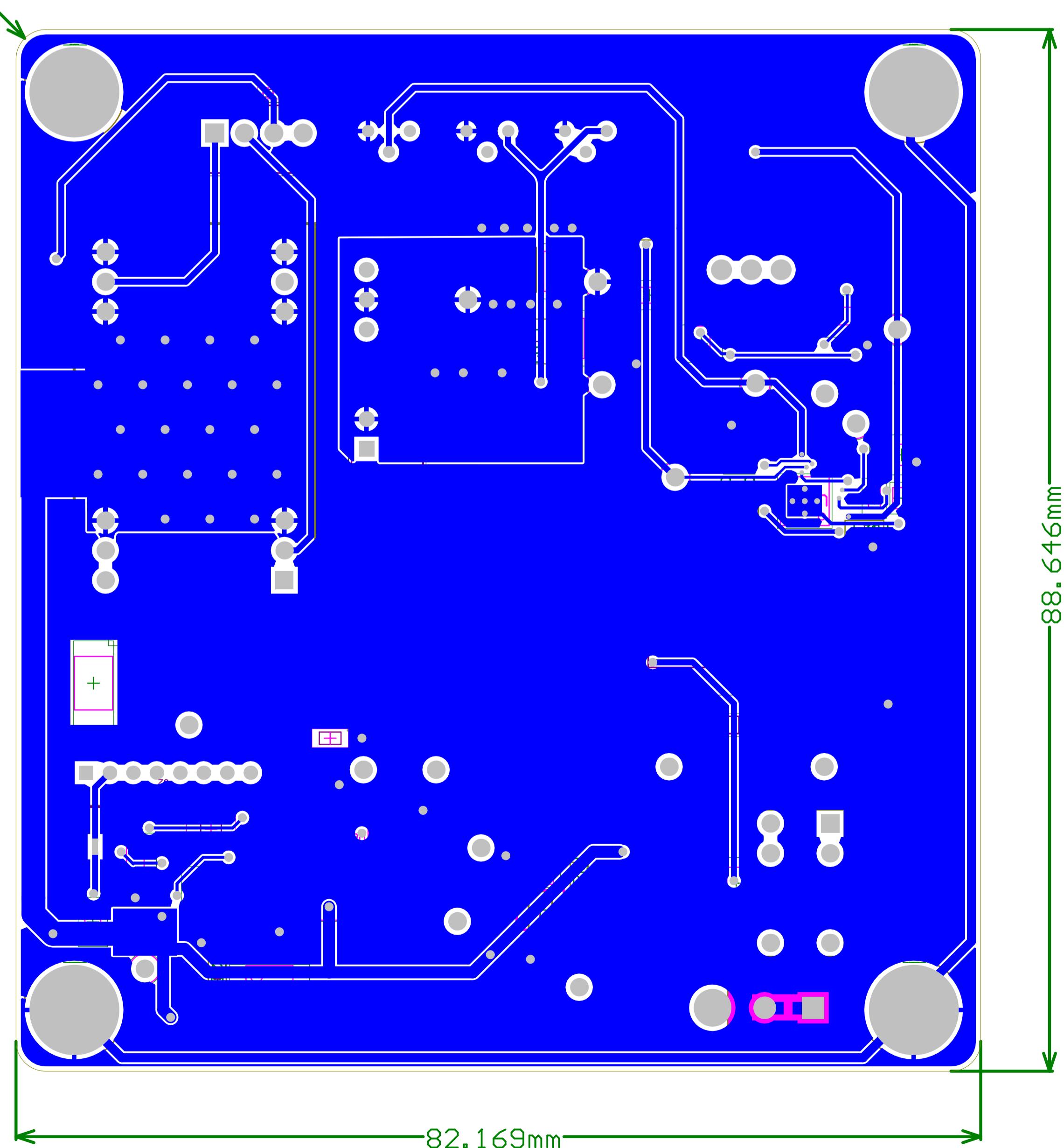
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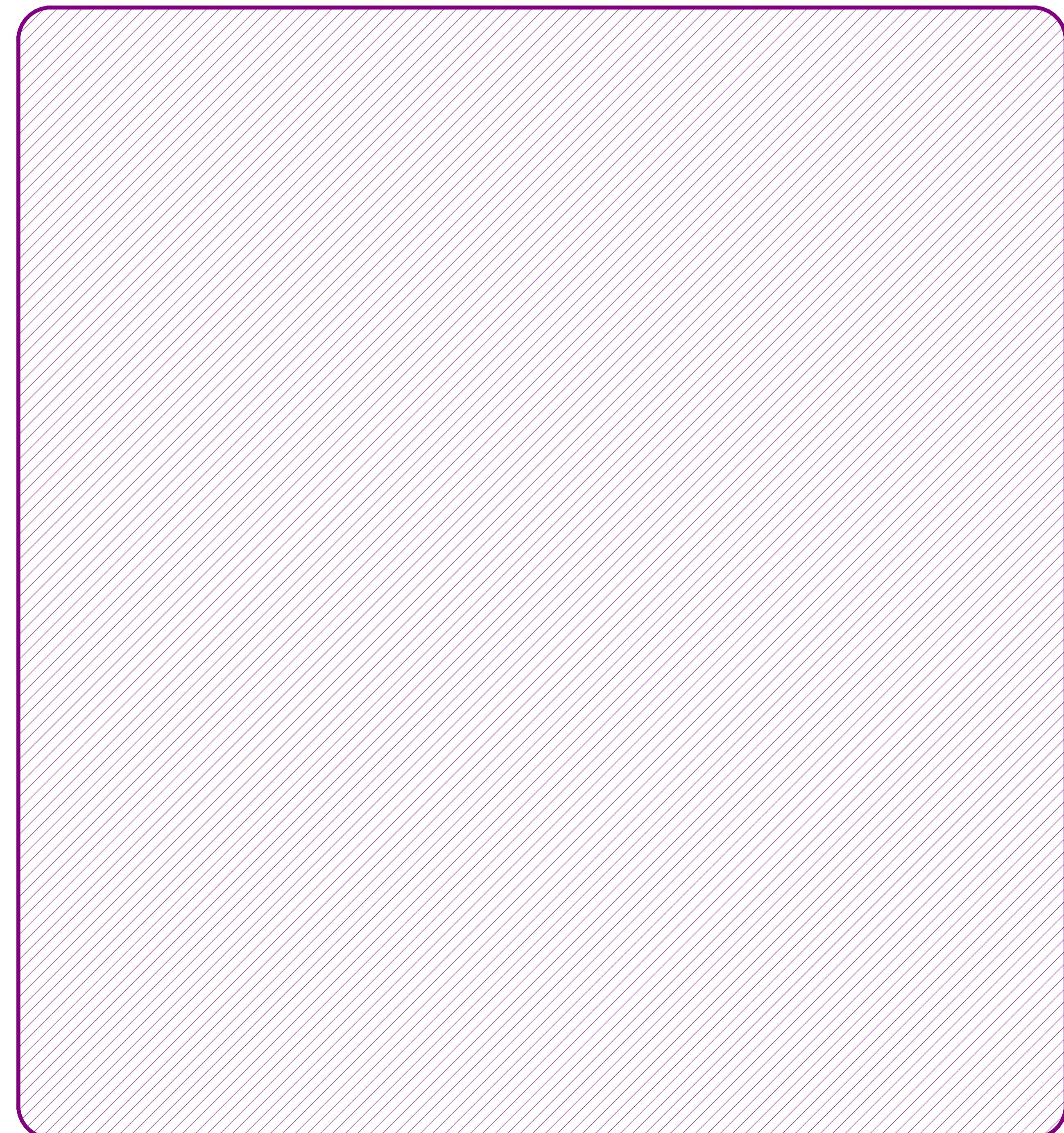
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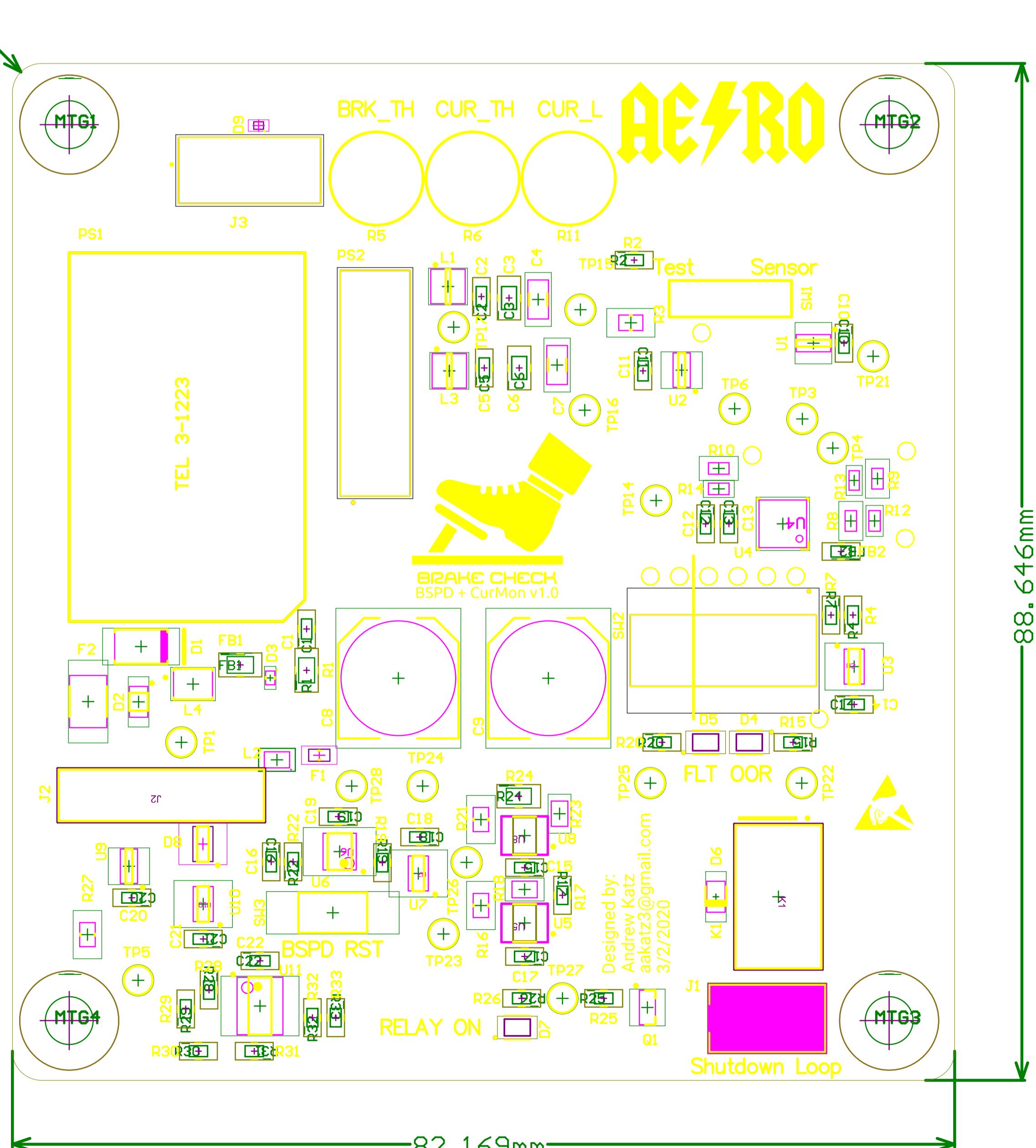
Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
2	Bottom Layer	Copper	1.40mil		GBL	
	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil



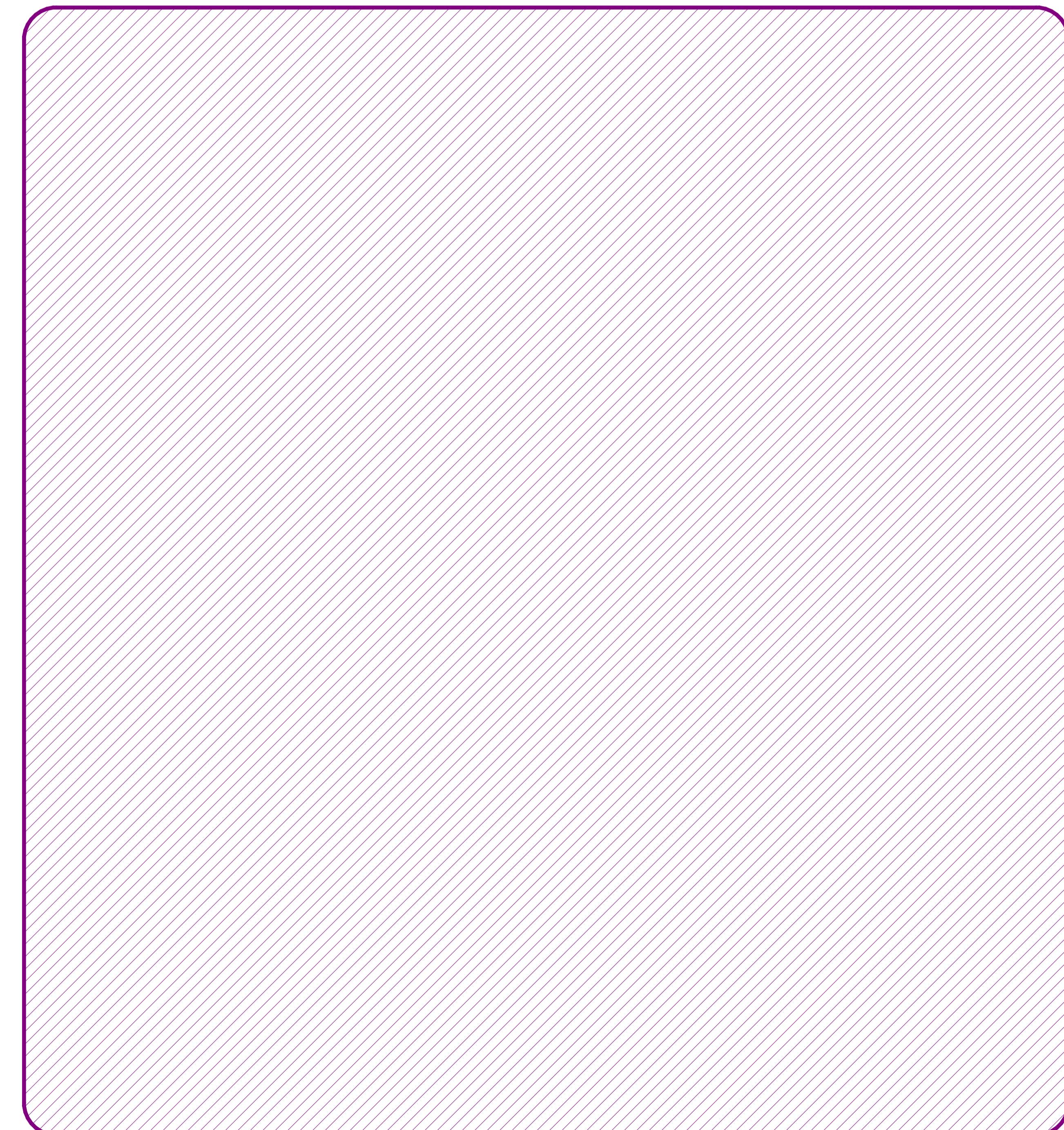
Title: BSPD			Designer: Andrew Katz aakatz3@gmail.com
Size: Letter	Number:	Revision:	*
Date: 3/2/2020	Time: 12:50:42 AM	Sheet 1 of 1	*
File: UVM AERO BSPD.PcbDoc			

**AERO**

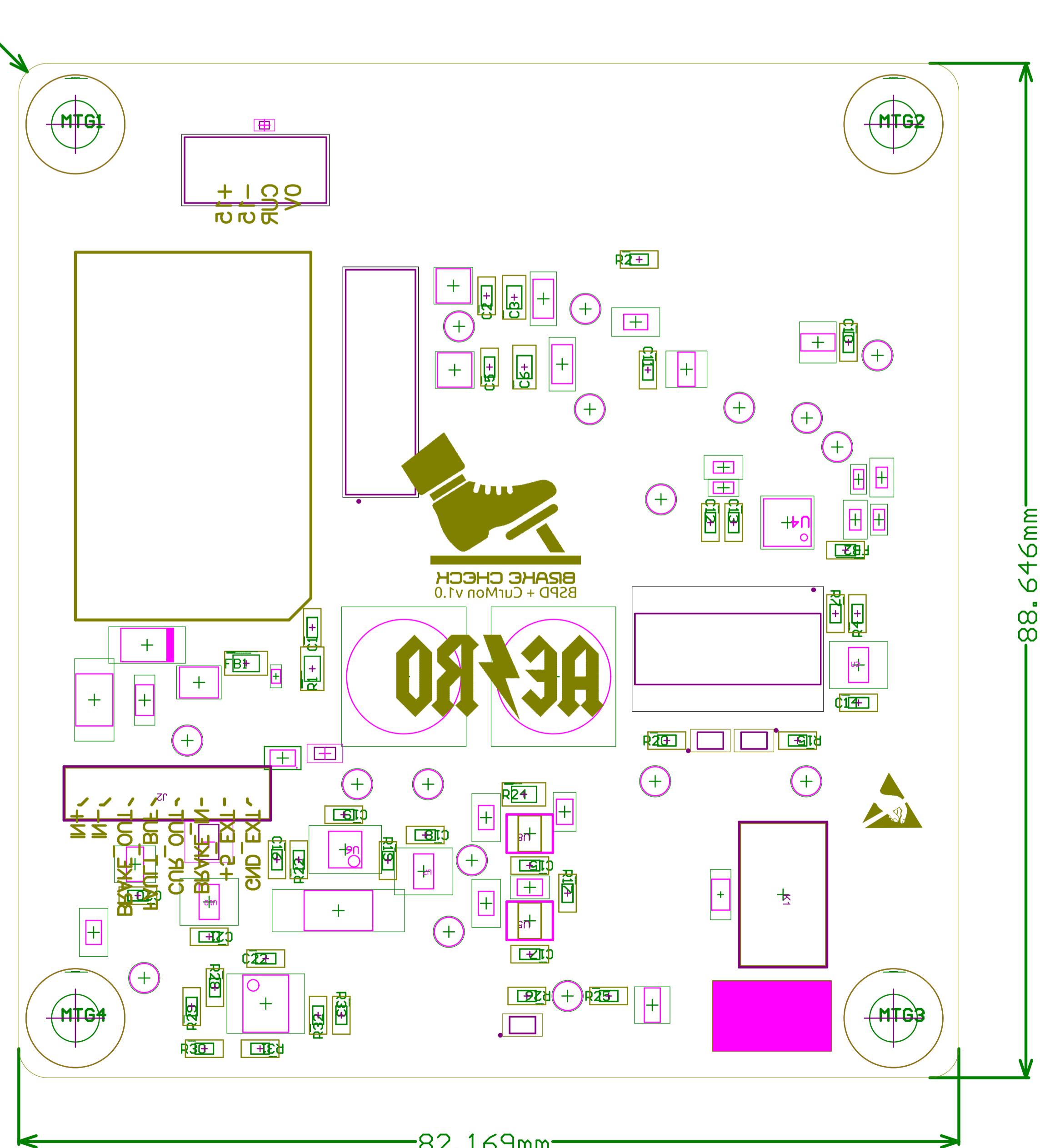


Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
2	Bottom Layer	Copper	1.40mil		GBL	
	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

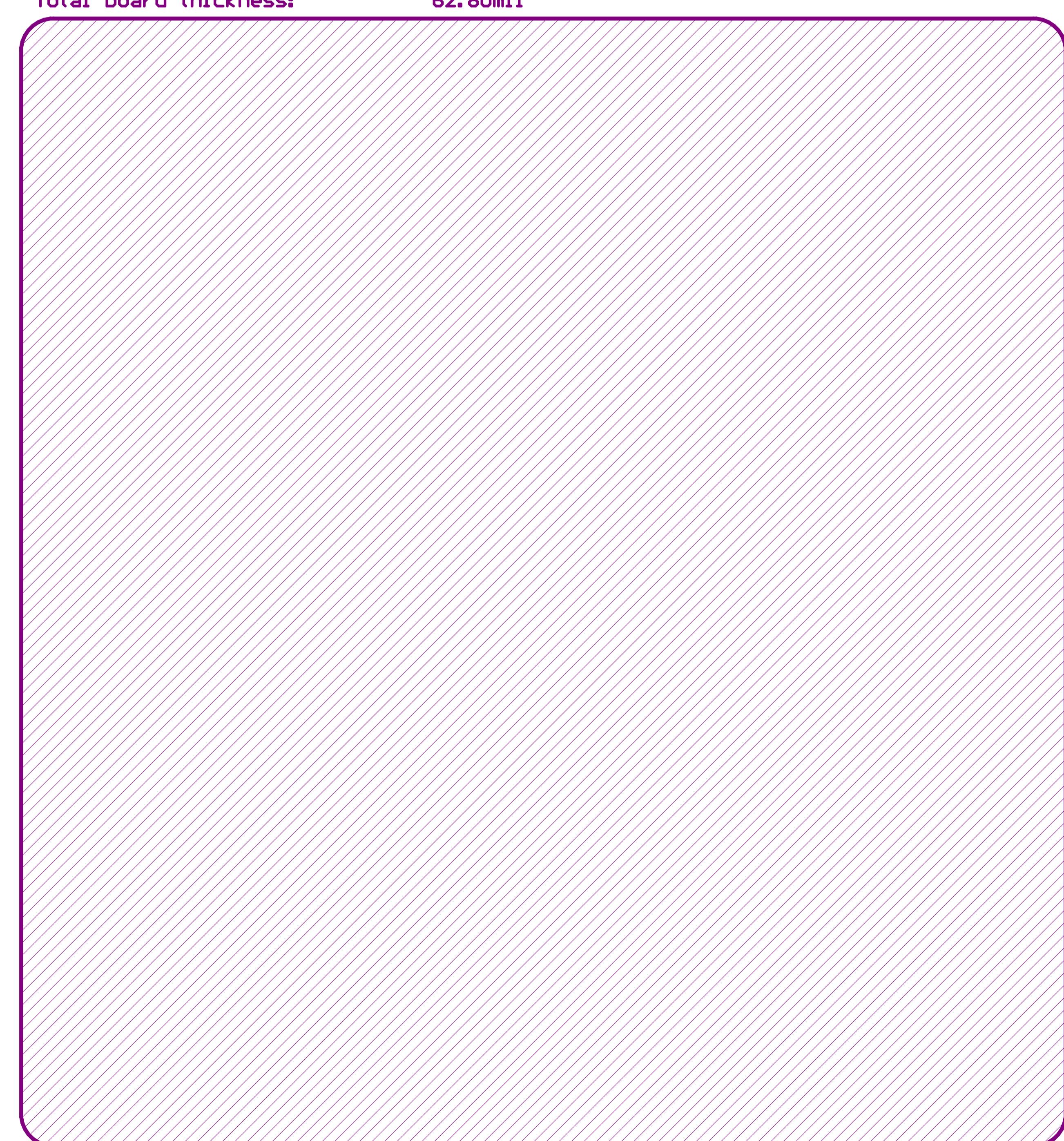
Total board thickness: 62.80mil



Title <b>BSPD</b>			Designer: Andrew Katz aakatz3@gmail.com	
Size: Letter	Number:	Revision:	*	
Date: 3/2/2020	Time: 12:50:42 AM	Sheet 1 of 1	*	
File: UVM AERO BSPD.PcbDoc				



Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
2	Bottom Layer	Copper	1.40mil		GBL	
	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	



Title <b>BSPD</b>			Designer: Andrew Katz aakatz3@gmail.com	
Size: Letter	Number:	Revision:	*	
Date: 3/2/2020	Time: 12:50:42 AM	Sheet 1 of 1	*	
File: UVM AERO BSPD.PcbDoc				

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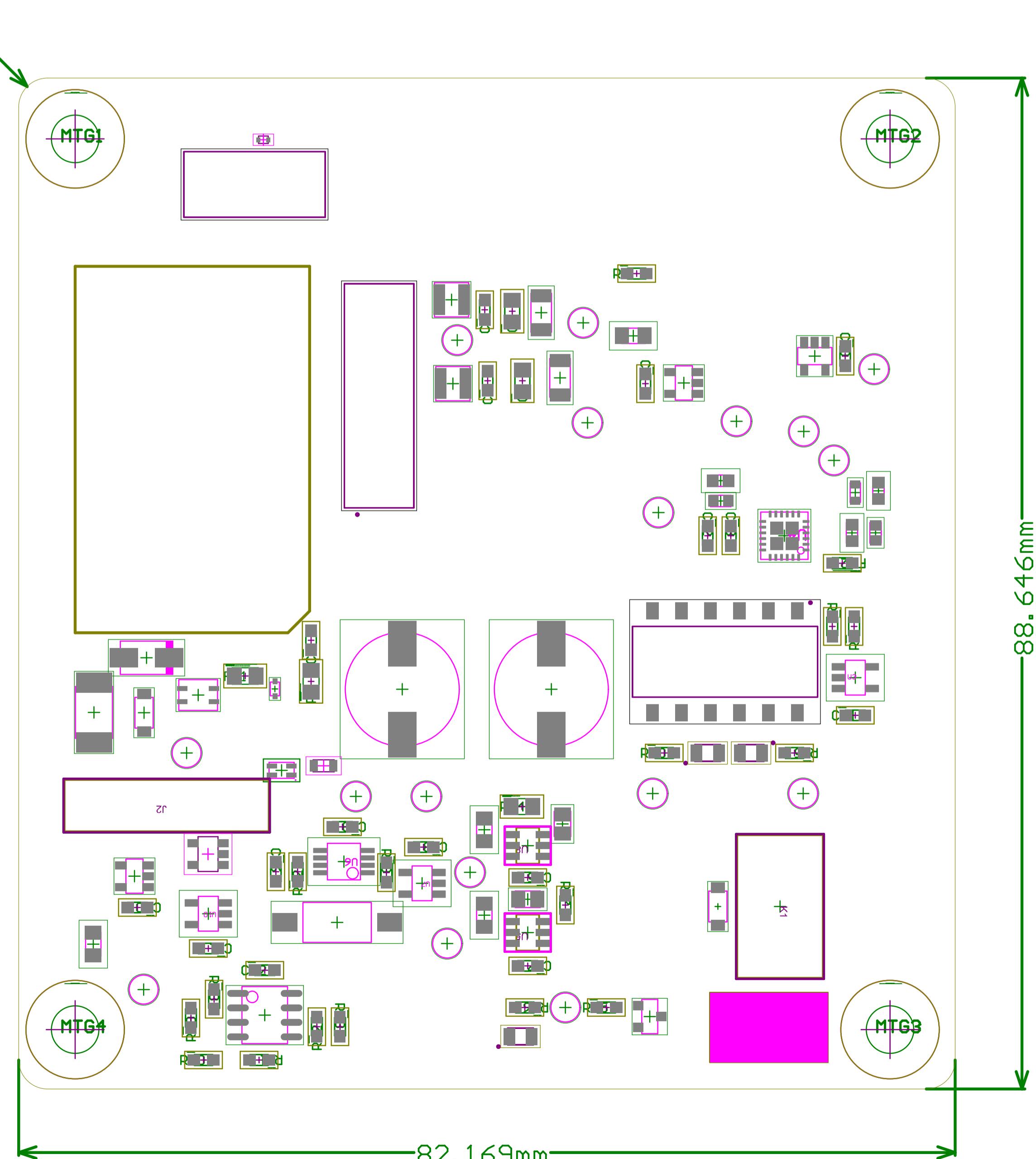
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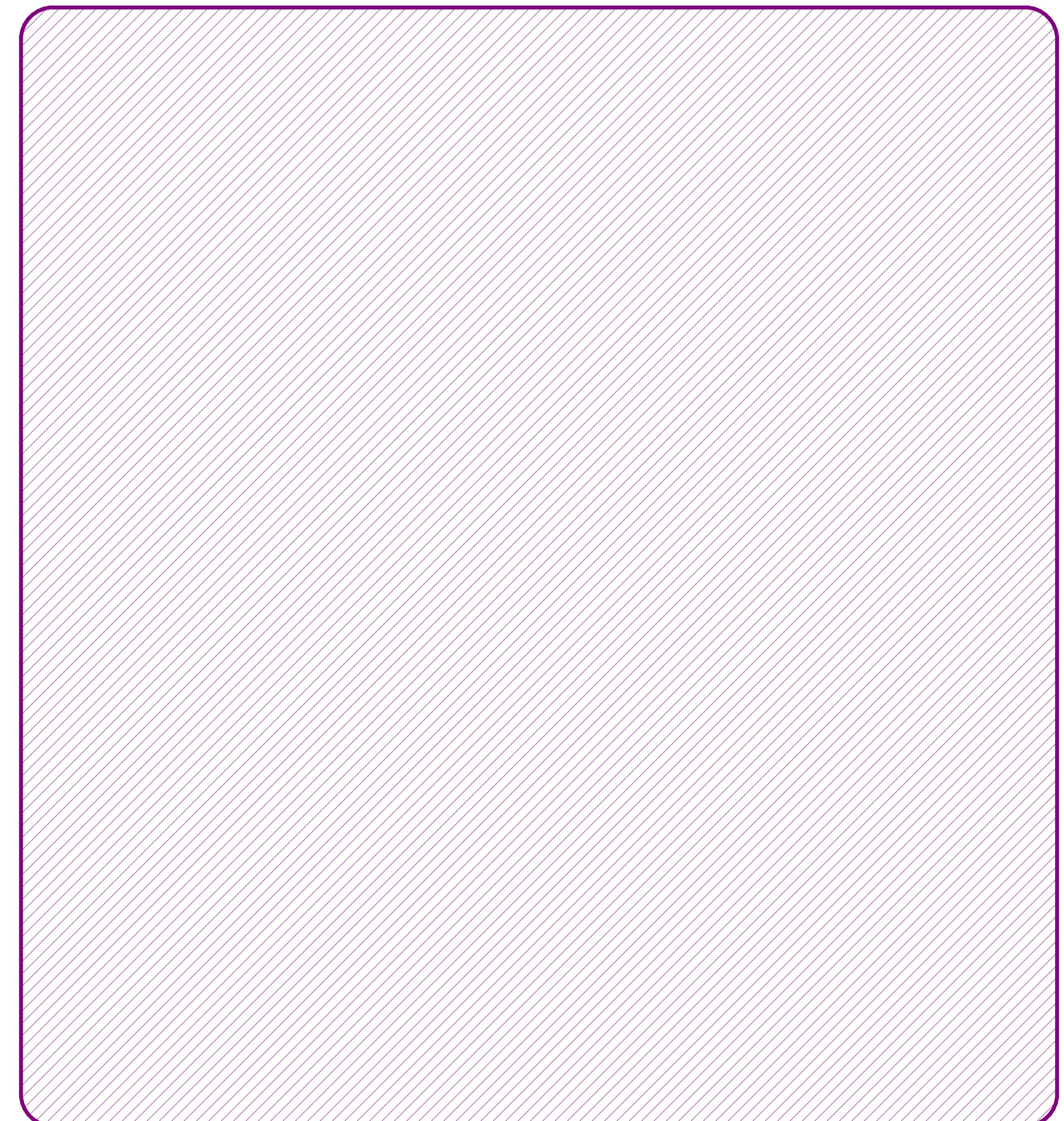
D

D



Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
2	Bottom Layer	Copper	1.40mil		GBL	
	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil



Title: BSPD	Designer: Andrew Katz aakatz3@gmail.com
Size: Letter	Number:
Date: 3/2/2020	Revision:
Time: 12:50:42 AM	Sheet 1 of 1
File: UVM AERO BSPD.PcbDoc	*

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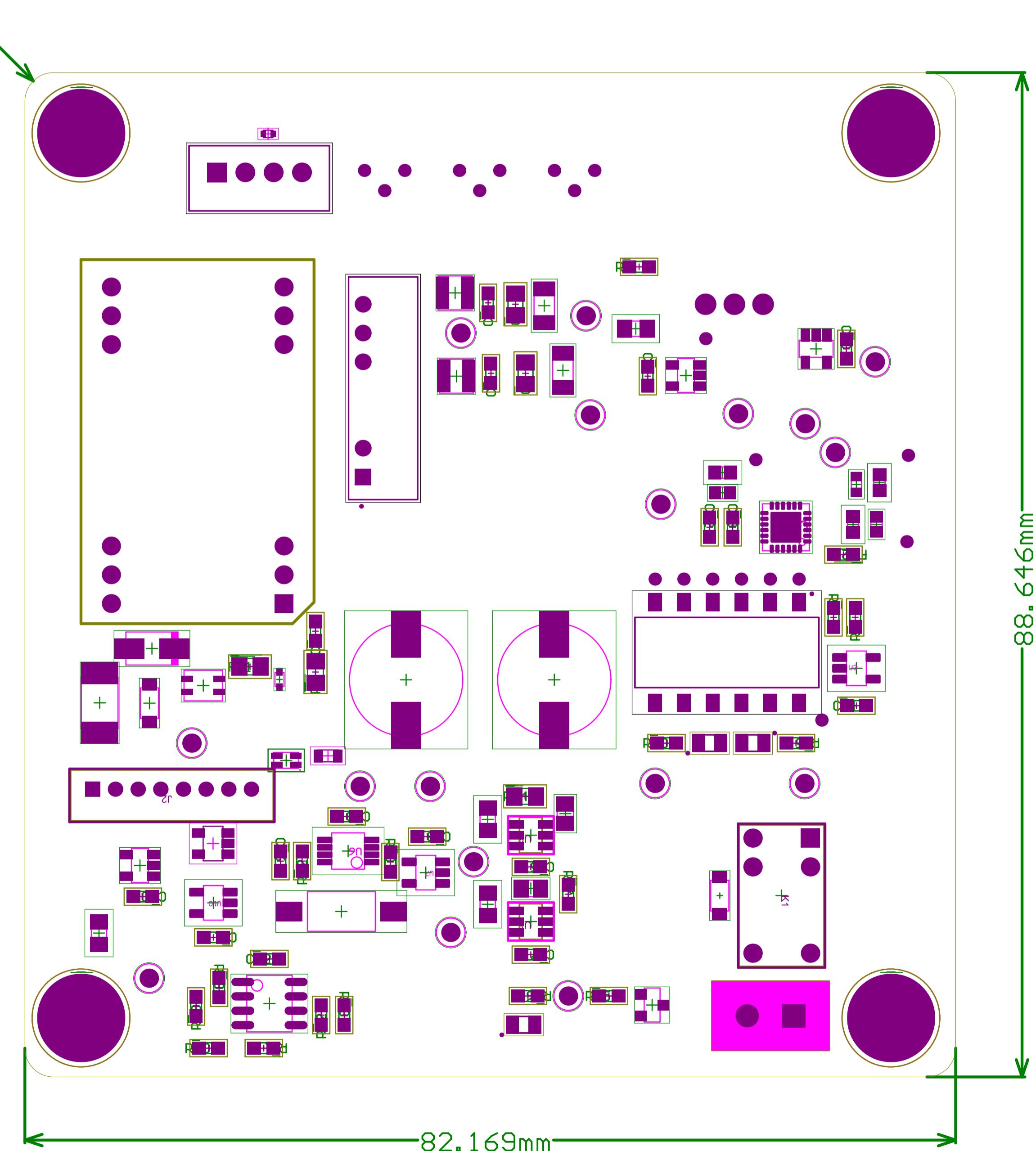
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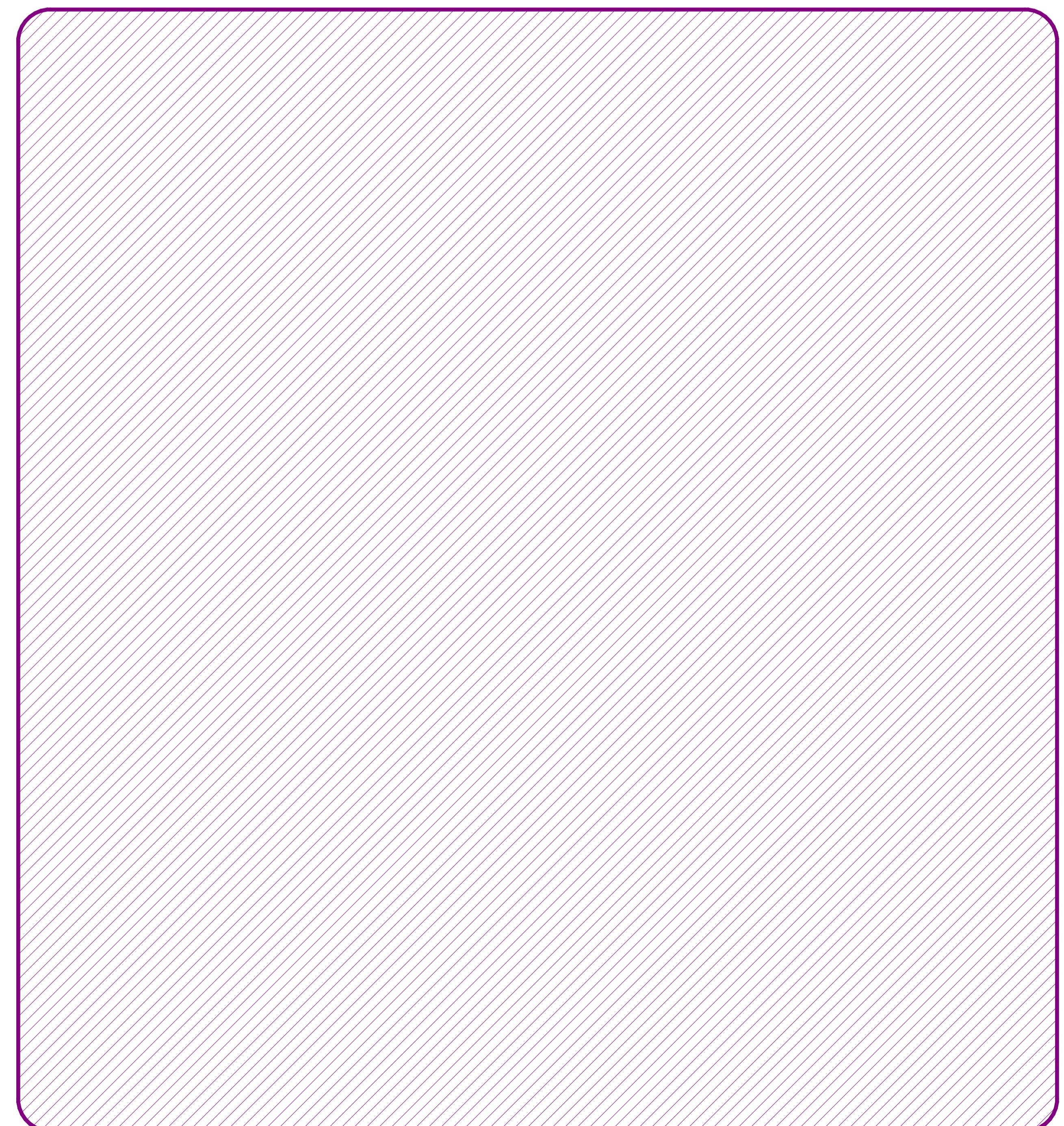
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
2	Bottom Layer	Copper	1.40mil		GBL	
	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil



Title: BSPD	Designer: Andrew Katz aakatz3@gmail.com
Size: Letter	Number:
Date: 3/2/2020	Revision:
Time: 12:50:42 AM	Sheet 1 of 1
File: UVM_AERO_BSPD.PcbDoc	*

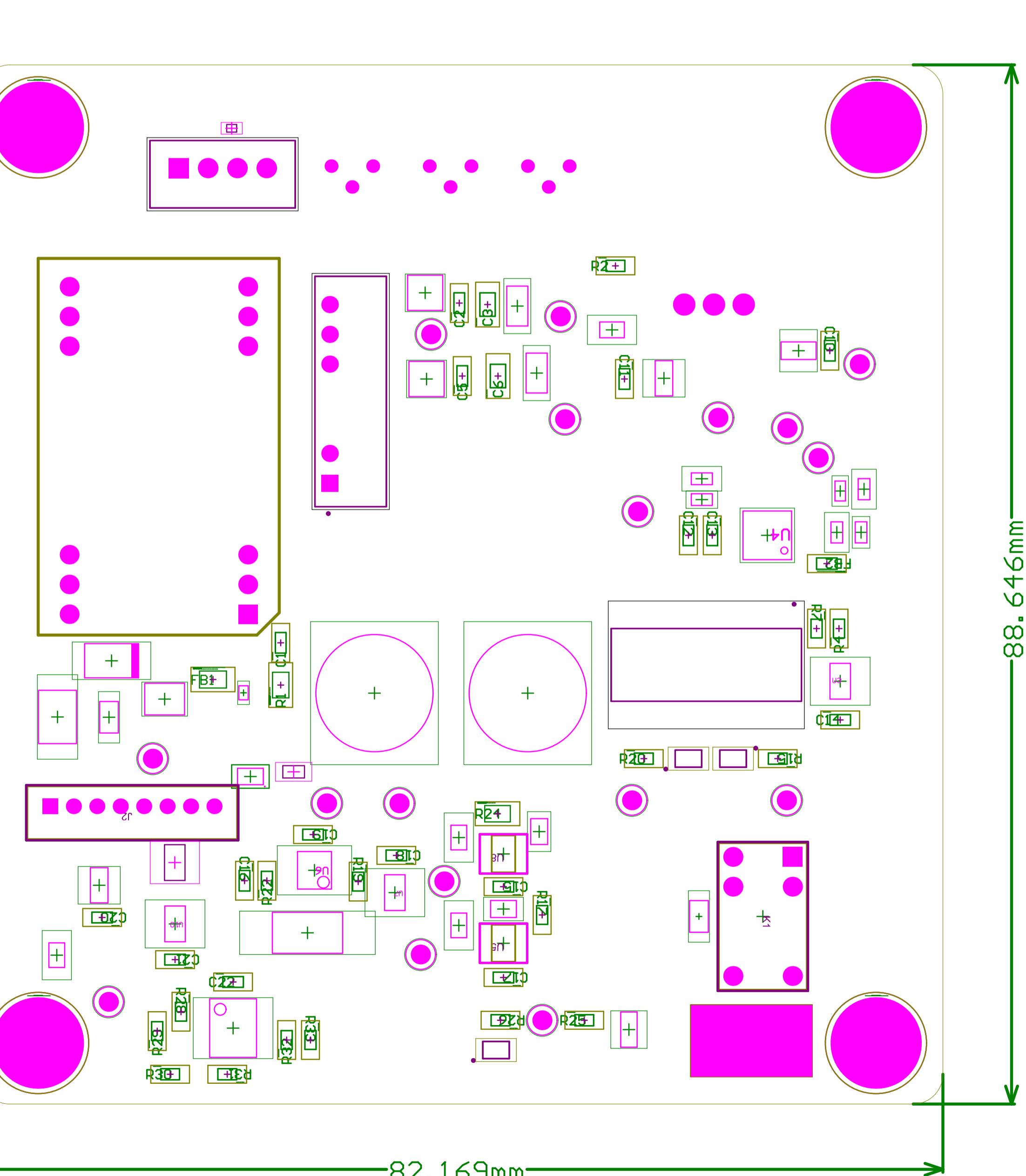
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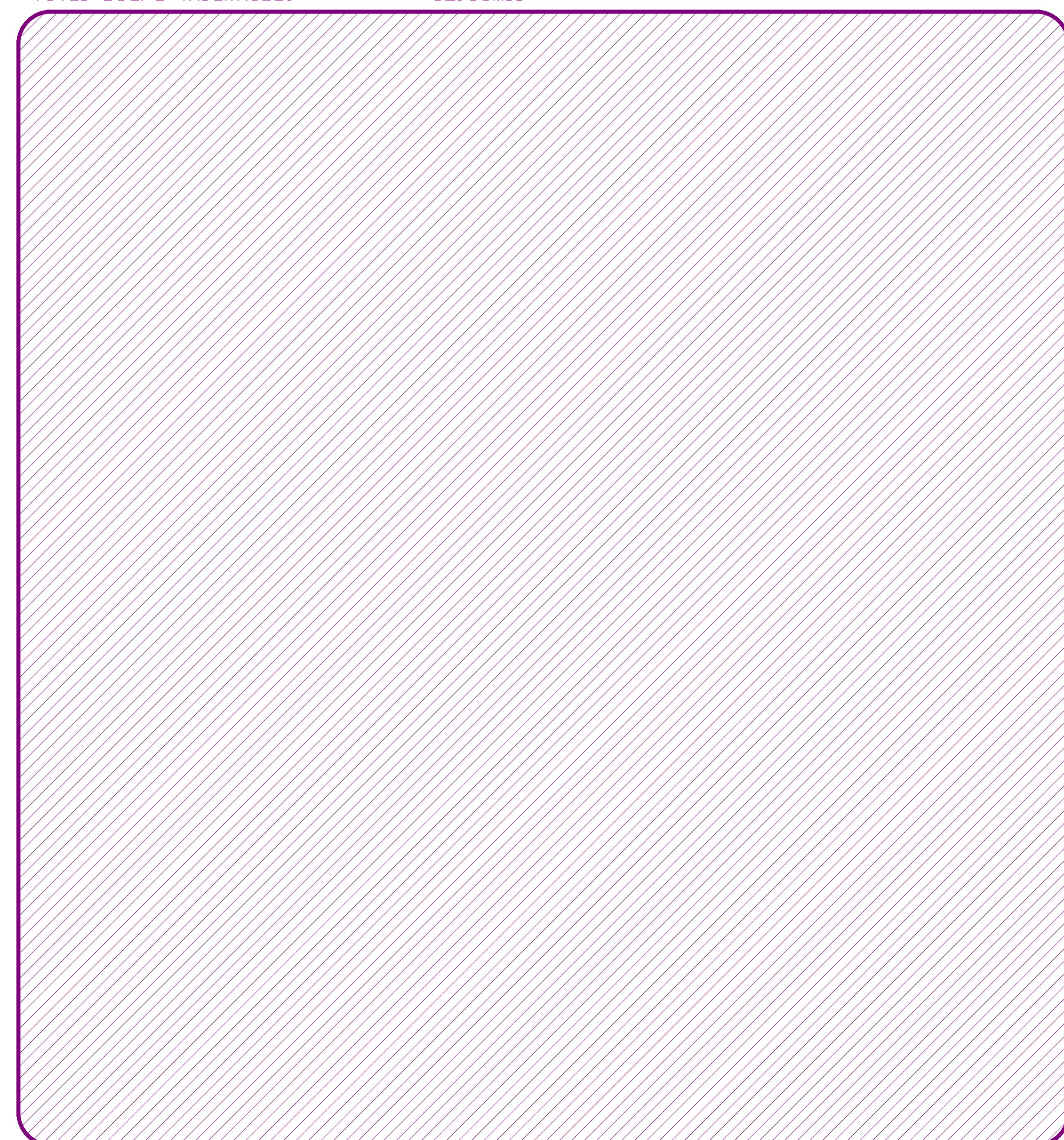
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
2	Bottom Layer	Copper	1.40mil		GBL	
	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil



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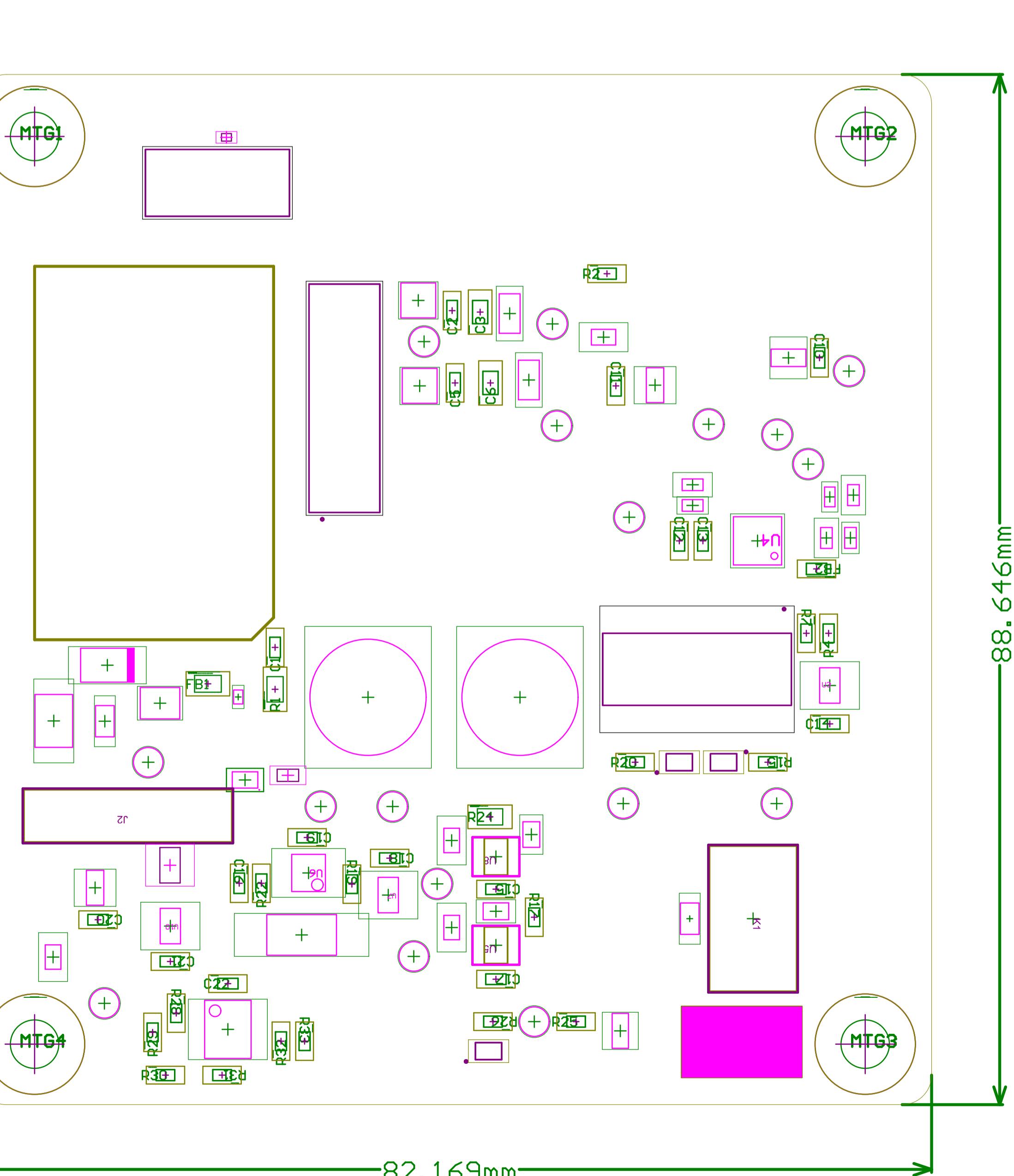
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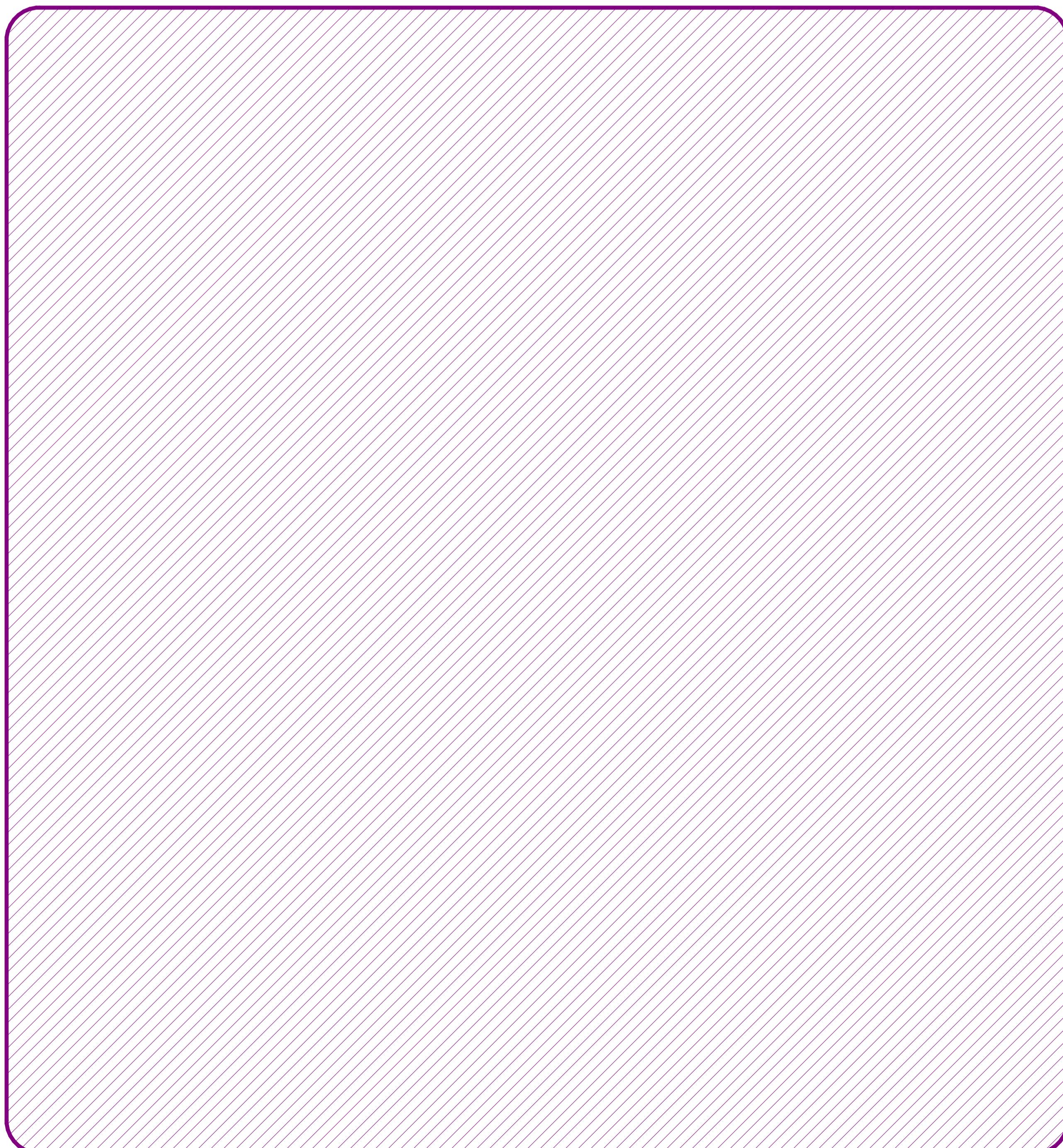
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
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	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil



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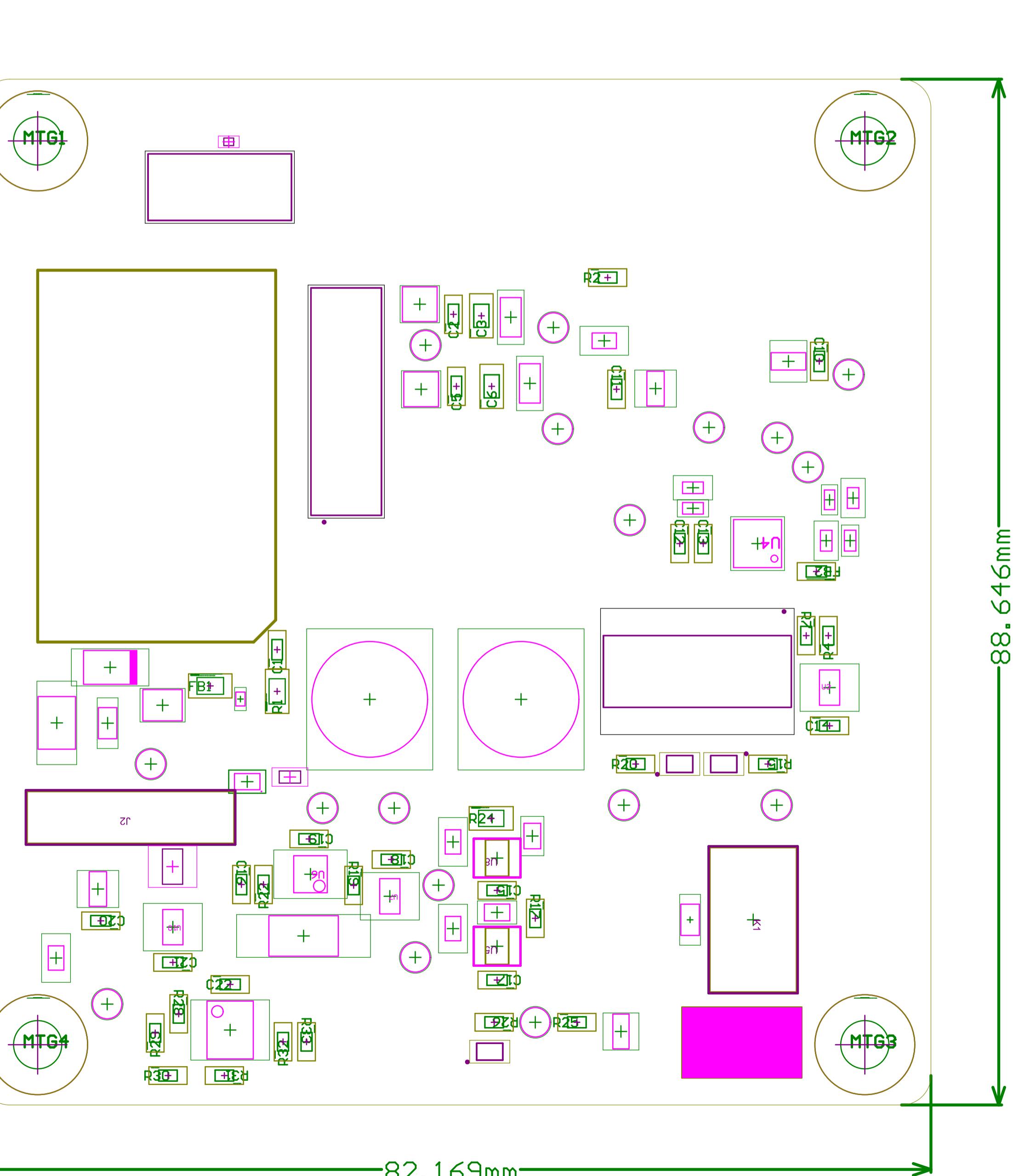
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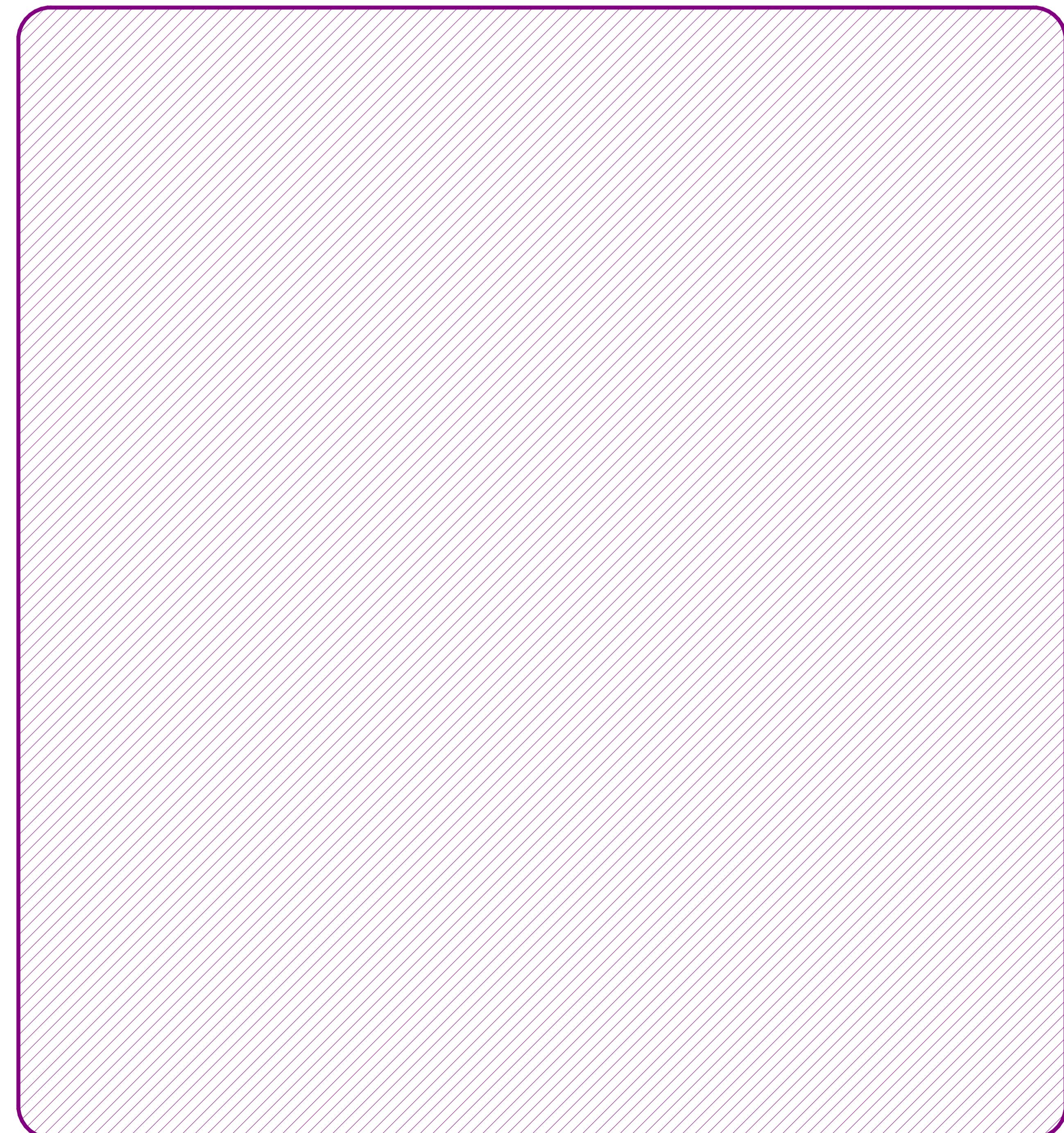
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
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	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

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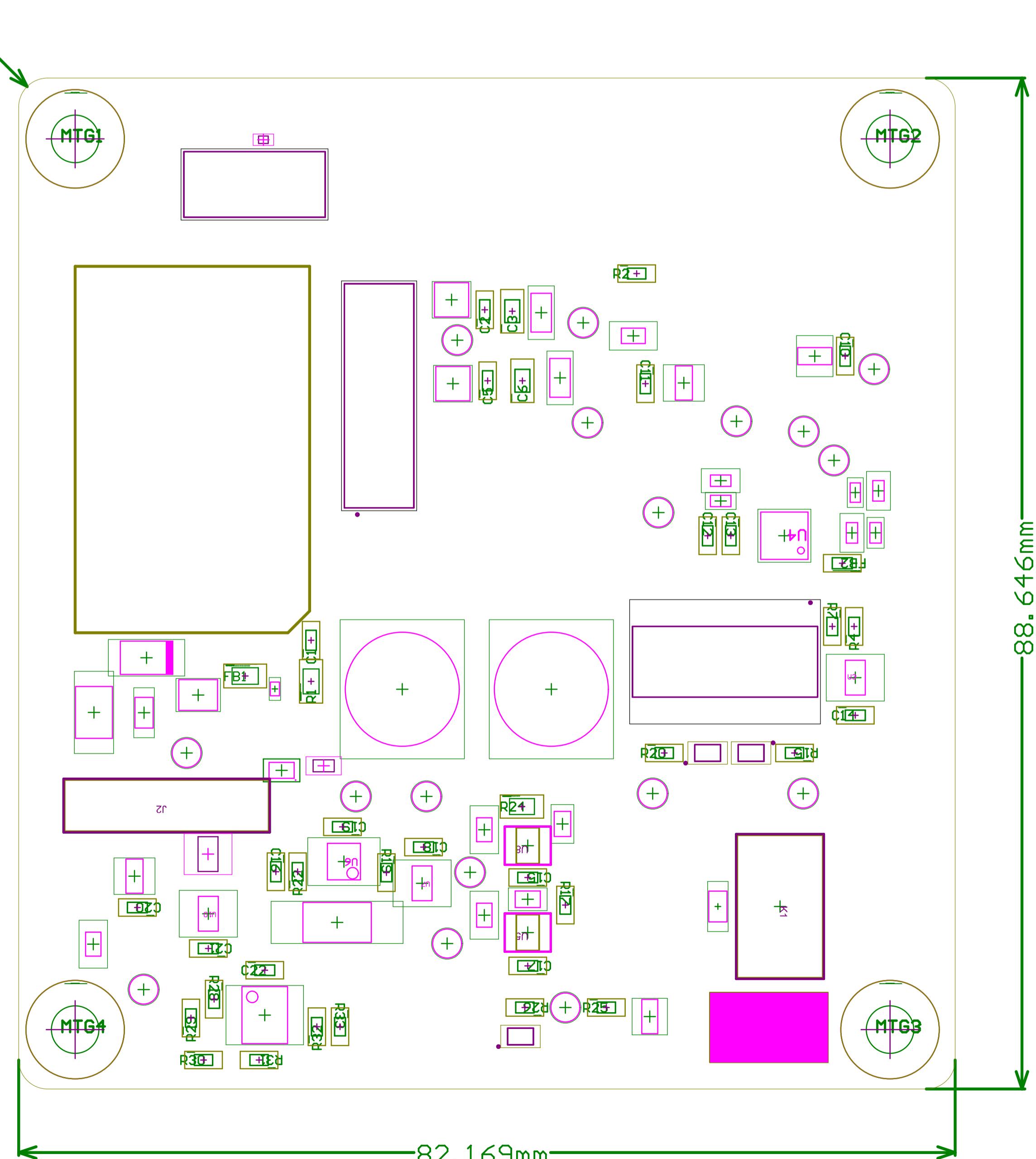
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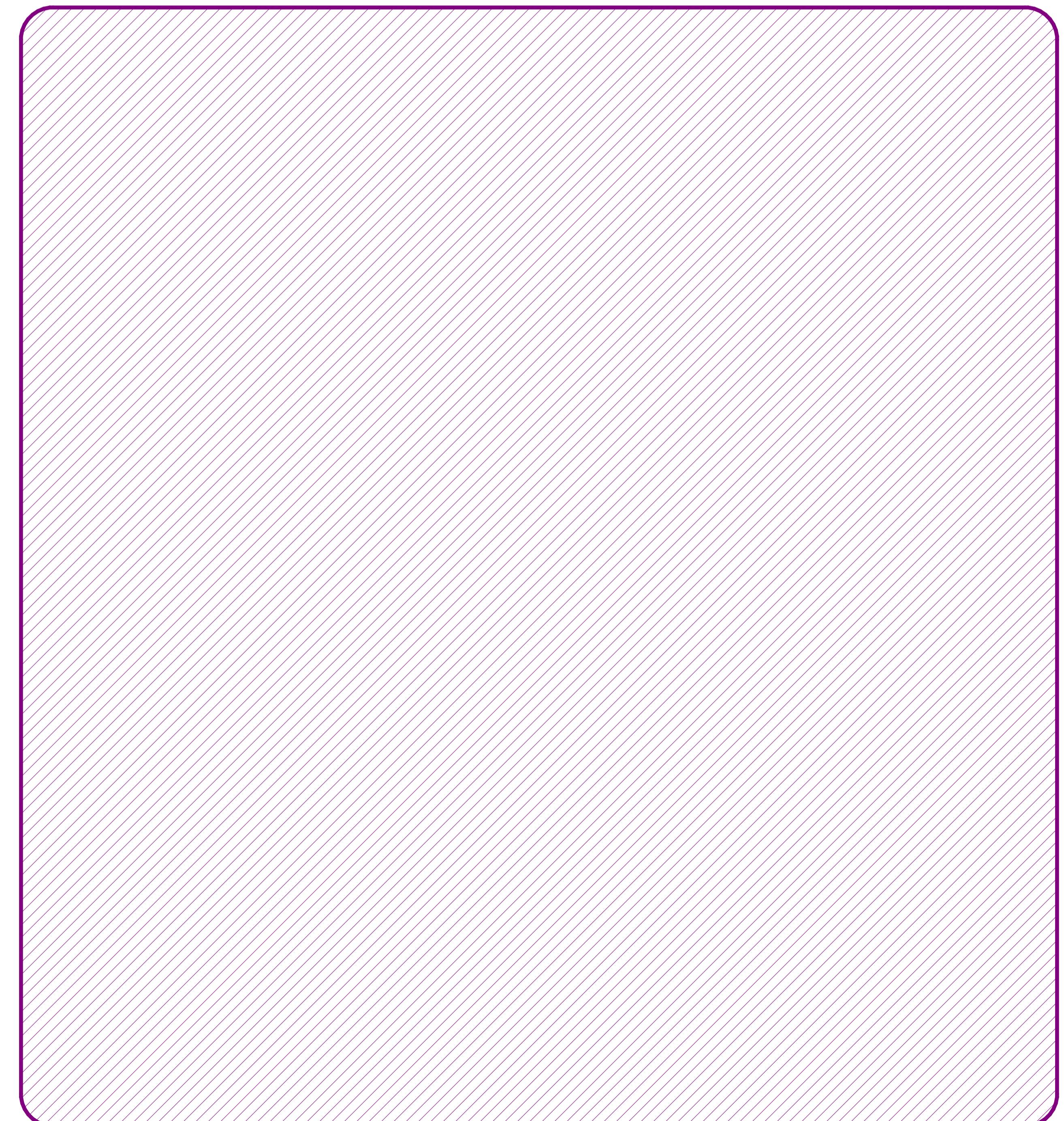
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
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	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

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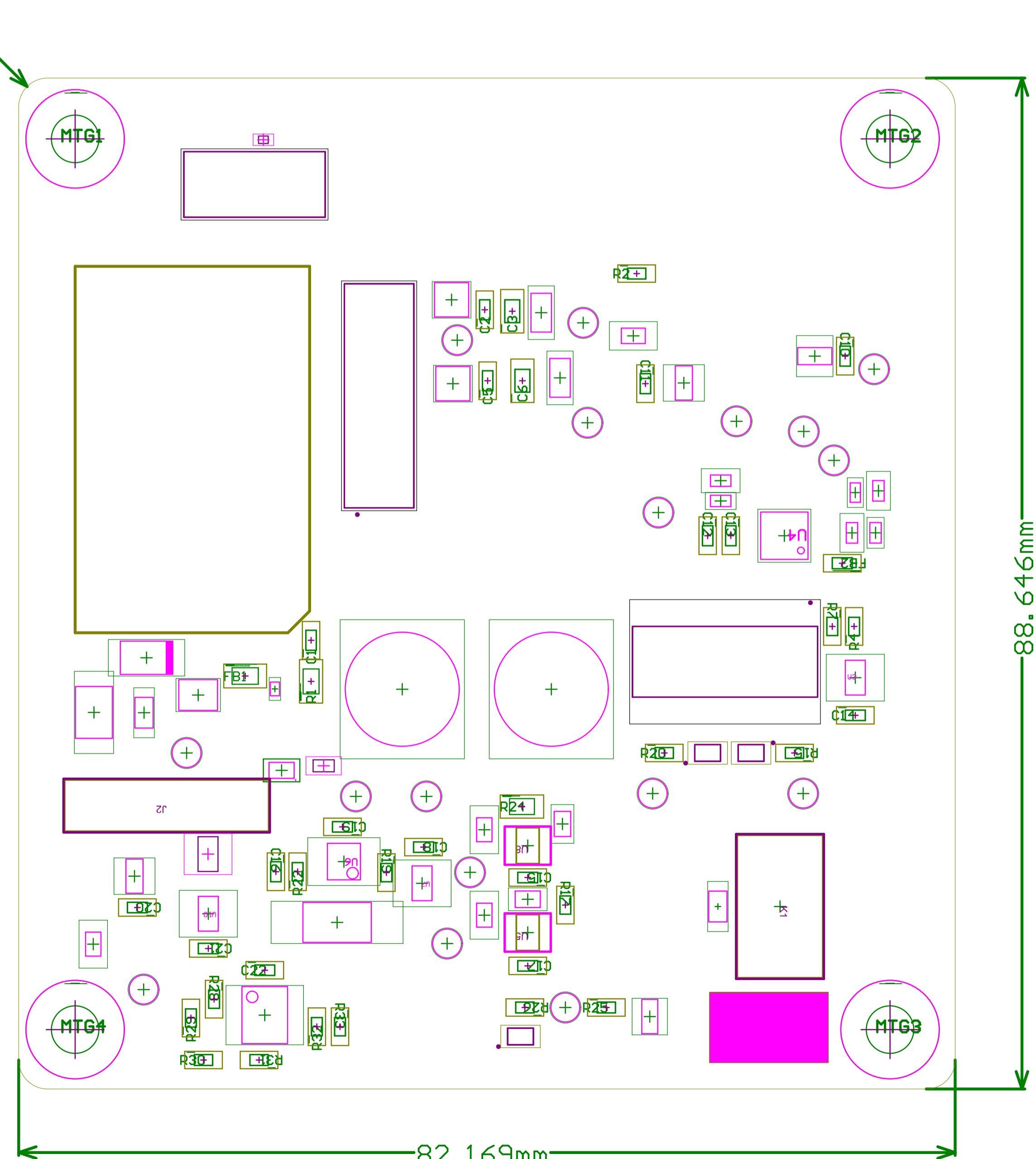
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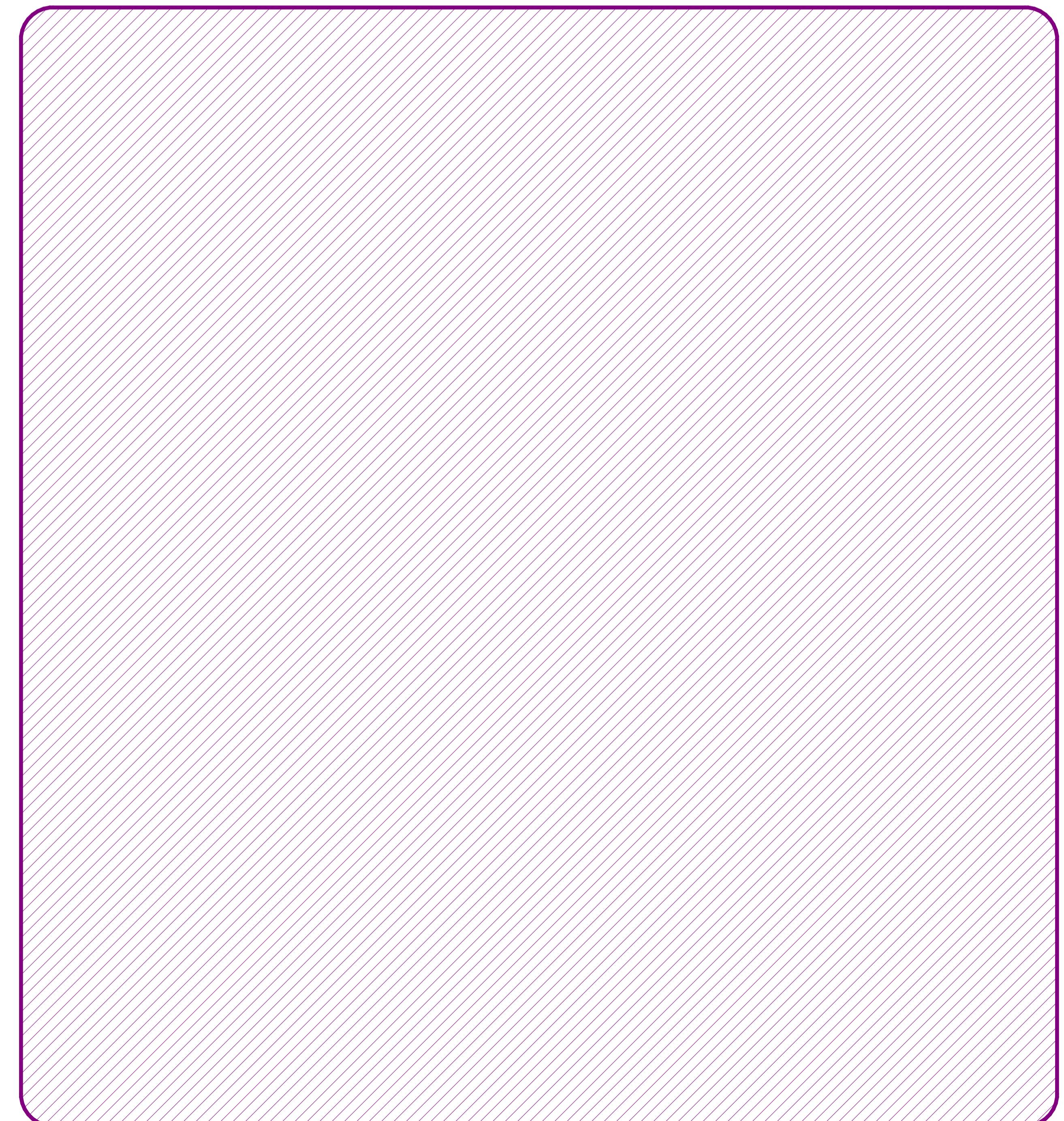
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
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	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

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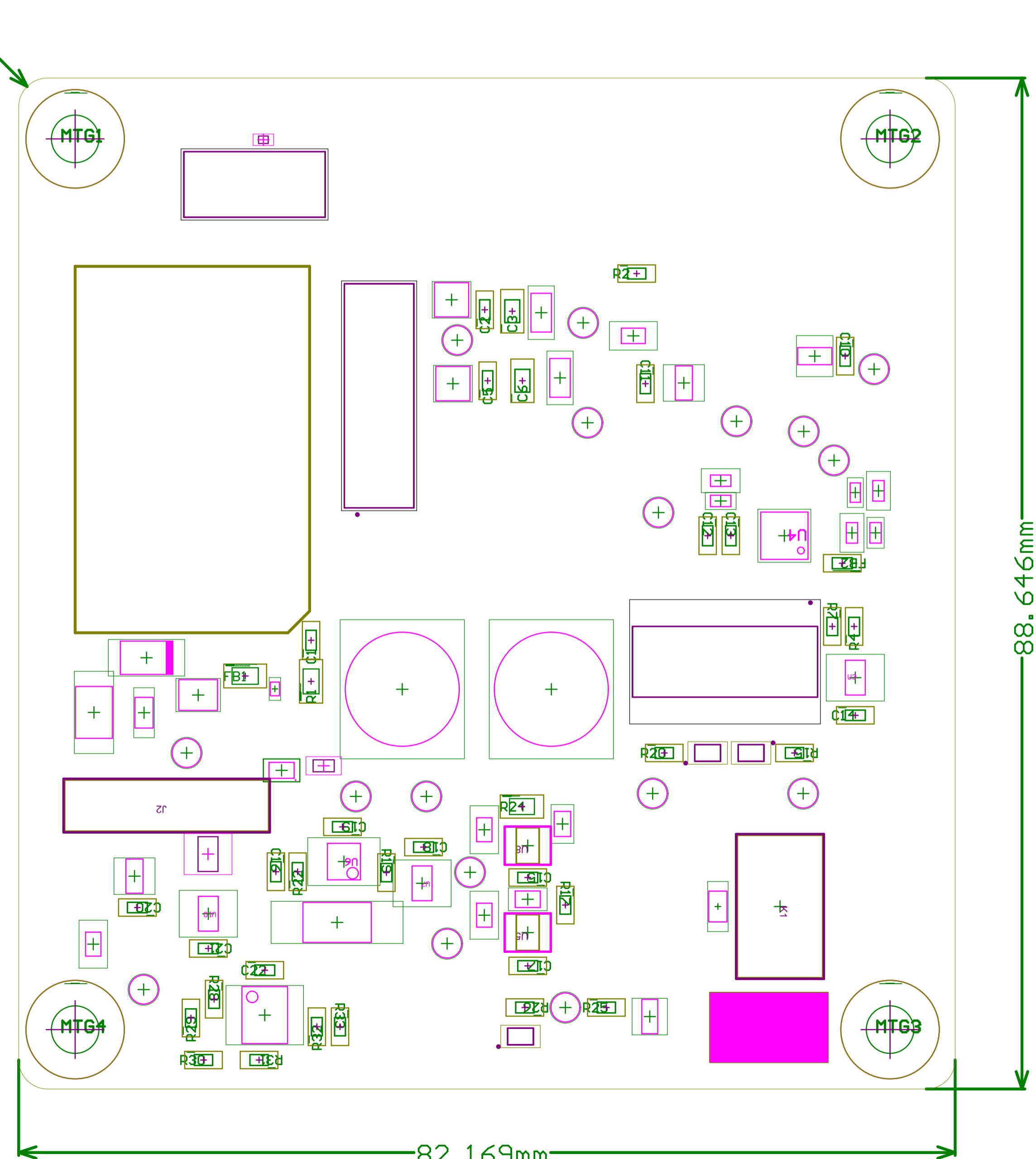
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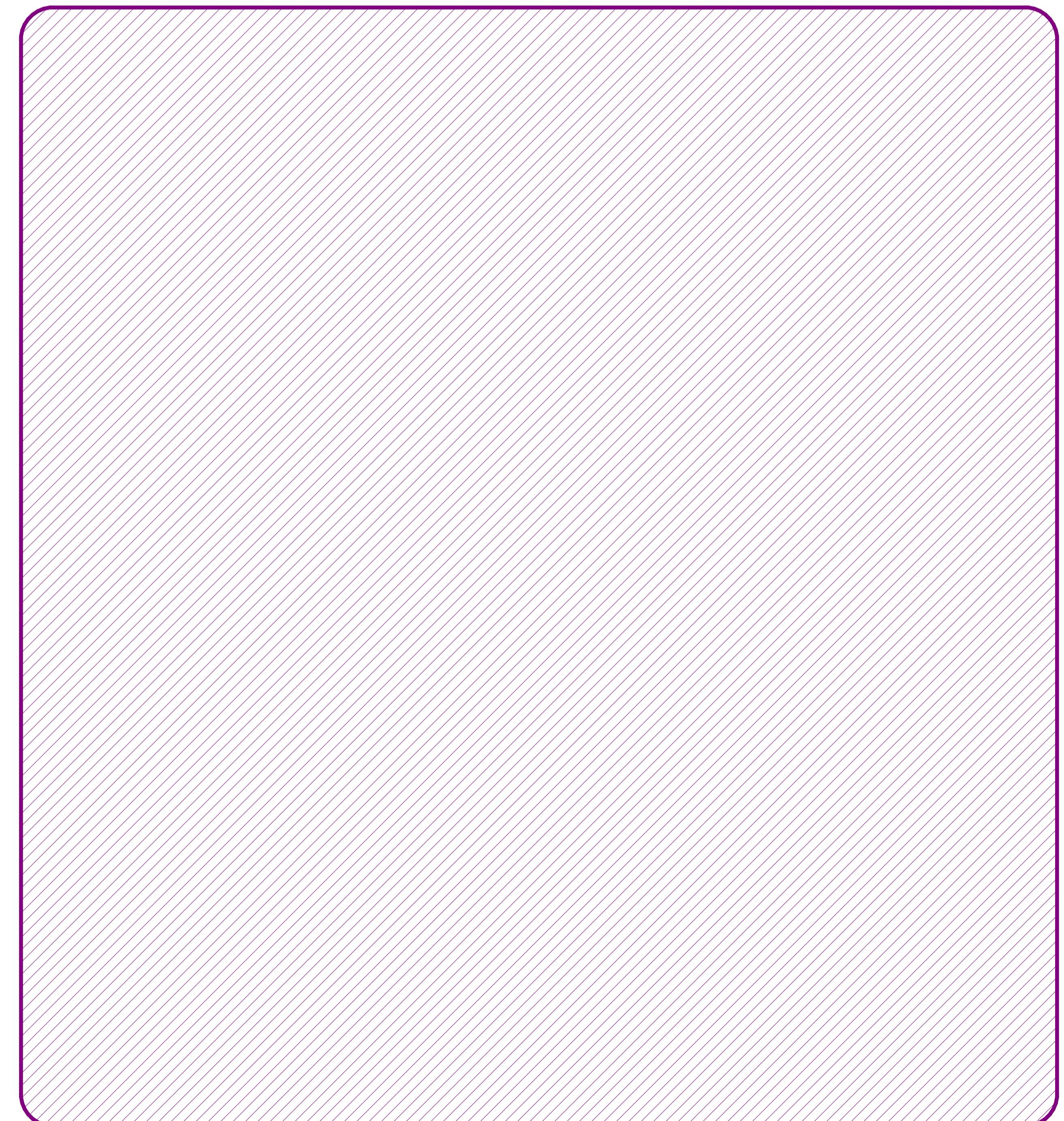
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
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	Dielectric 1	FR-4	58.00mil	4.2		
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	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil



Title BSPD

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File: UVM AERO BSPD.PcbDoc

Designer:  
Andrew Katz  
aakatz3@gmail.com  
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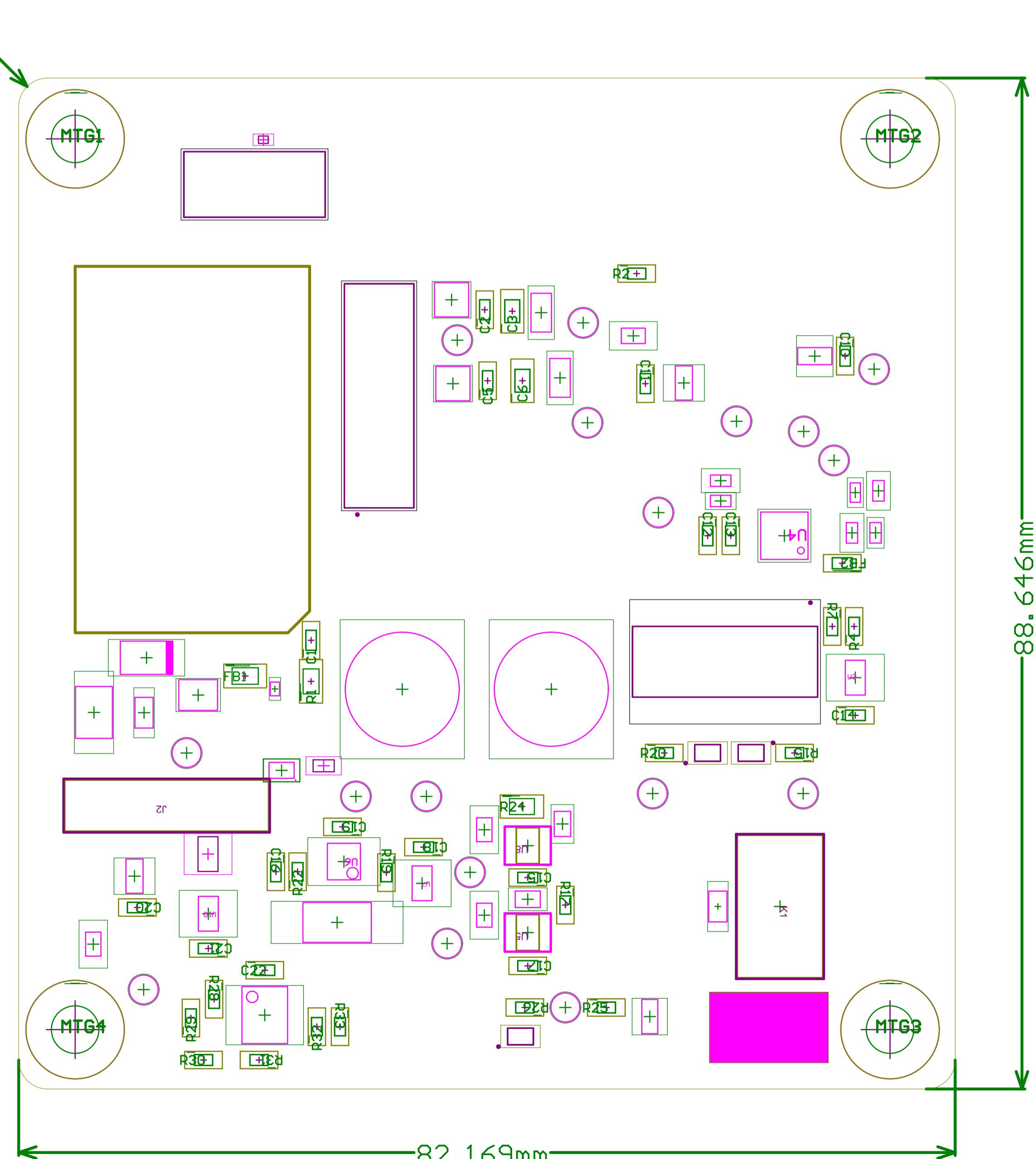
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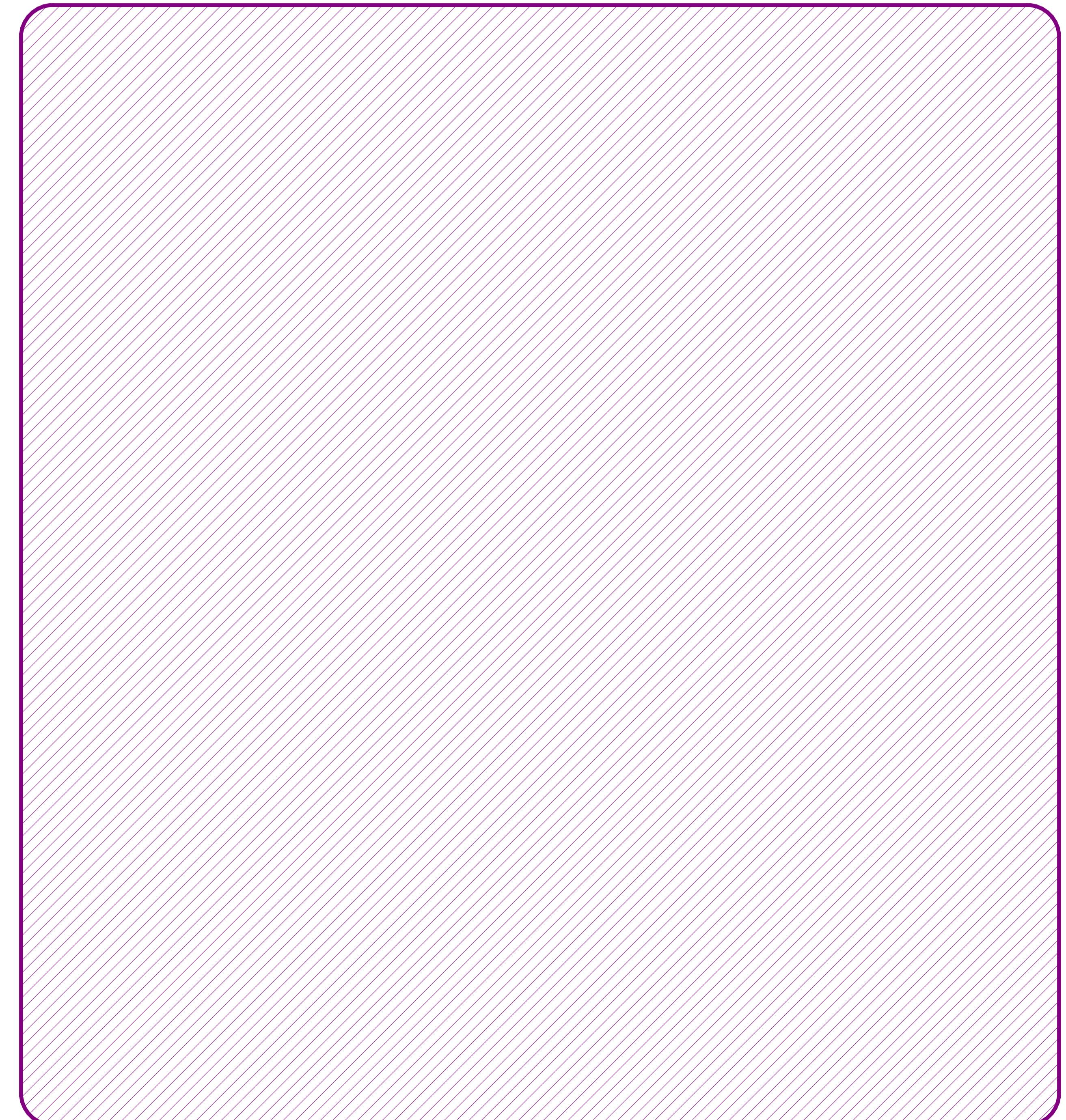
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
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	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil



Title BSPD

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Number:

Designer:  
Andrew Katz  
aakatz3@gmail.com  
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Date: 3/2/2020 Time: 12:50:42 AM Sheet 1 of 1

File: UVM AERO BSPD.PcbDoc

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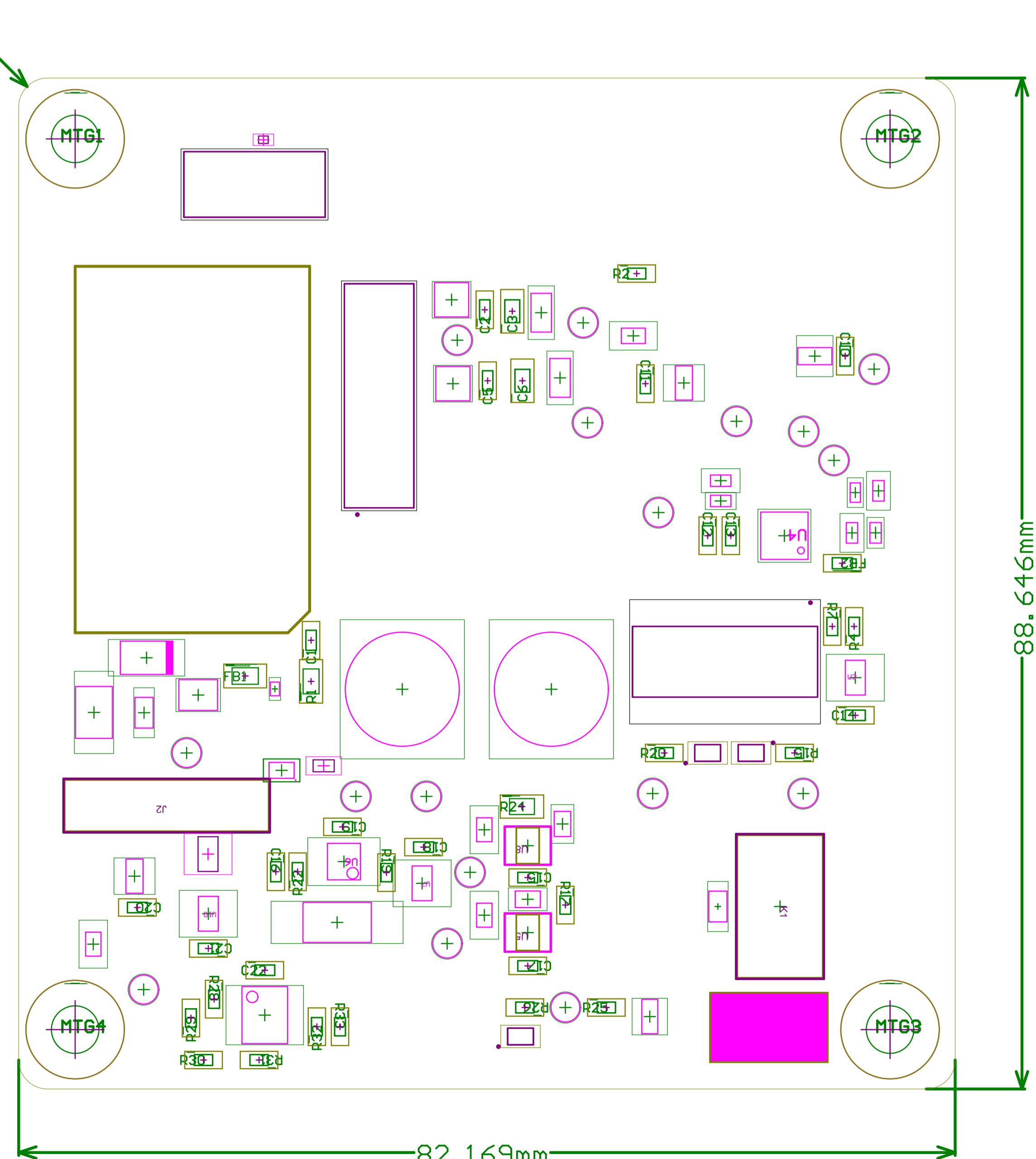
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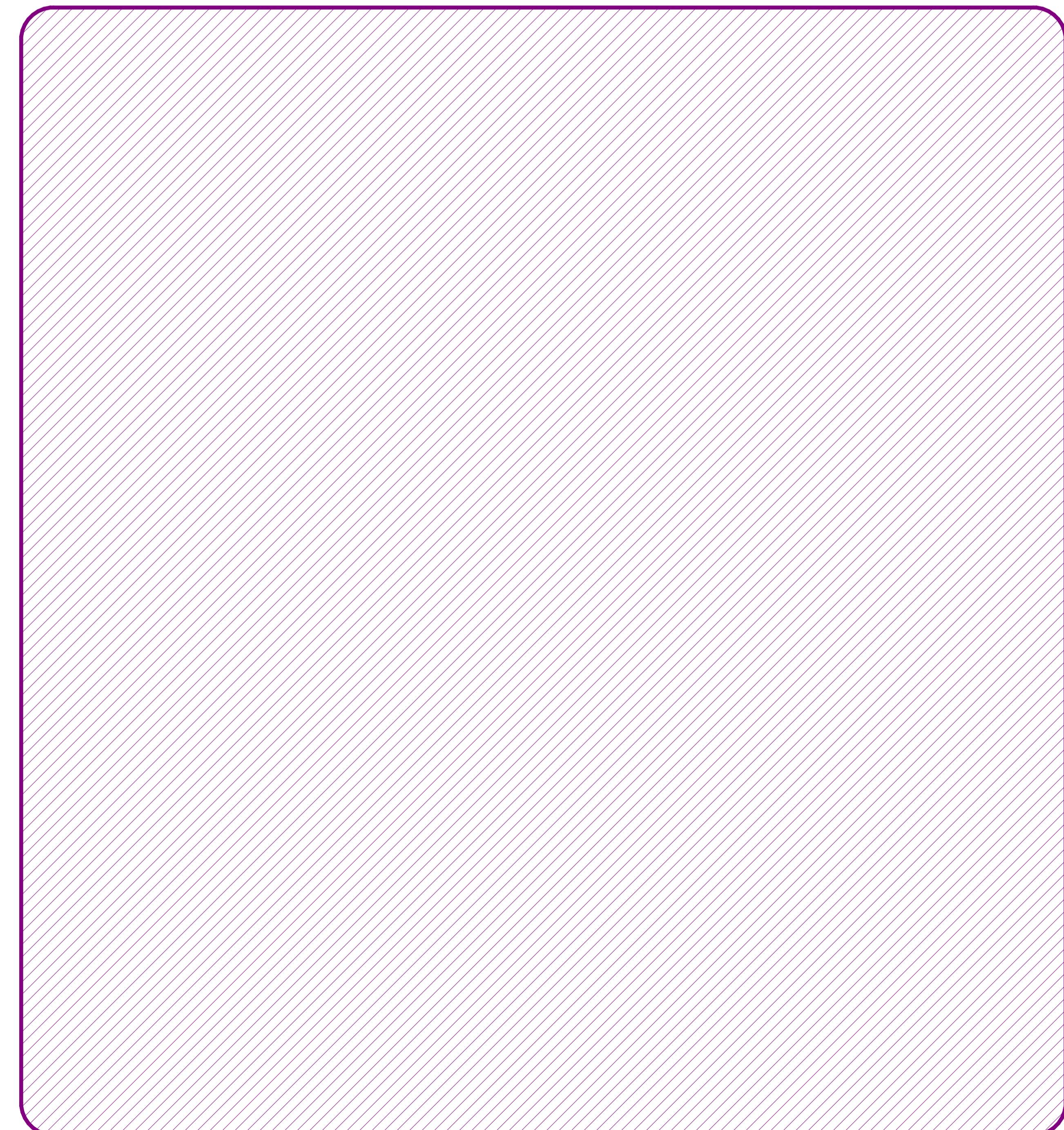
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
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	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

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Designer:  
Andrew Katz  
aakatz3@gmail.com  
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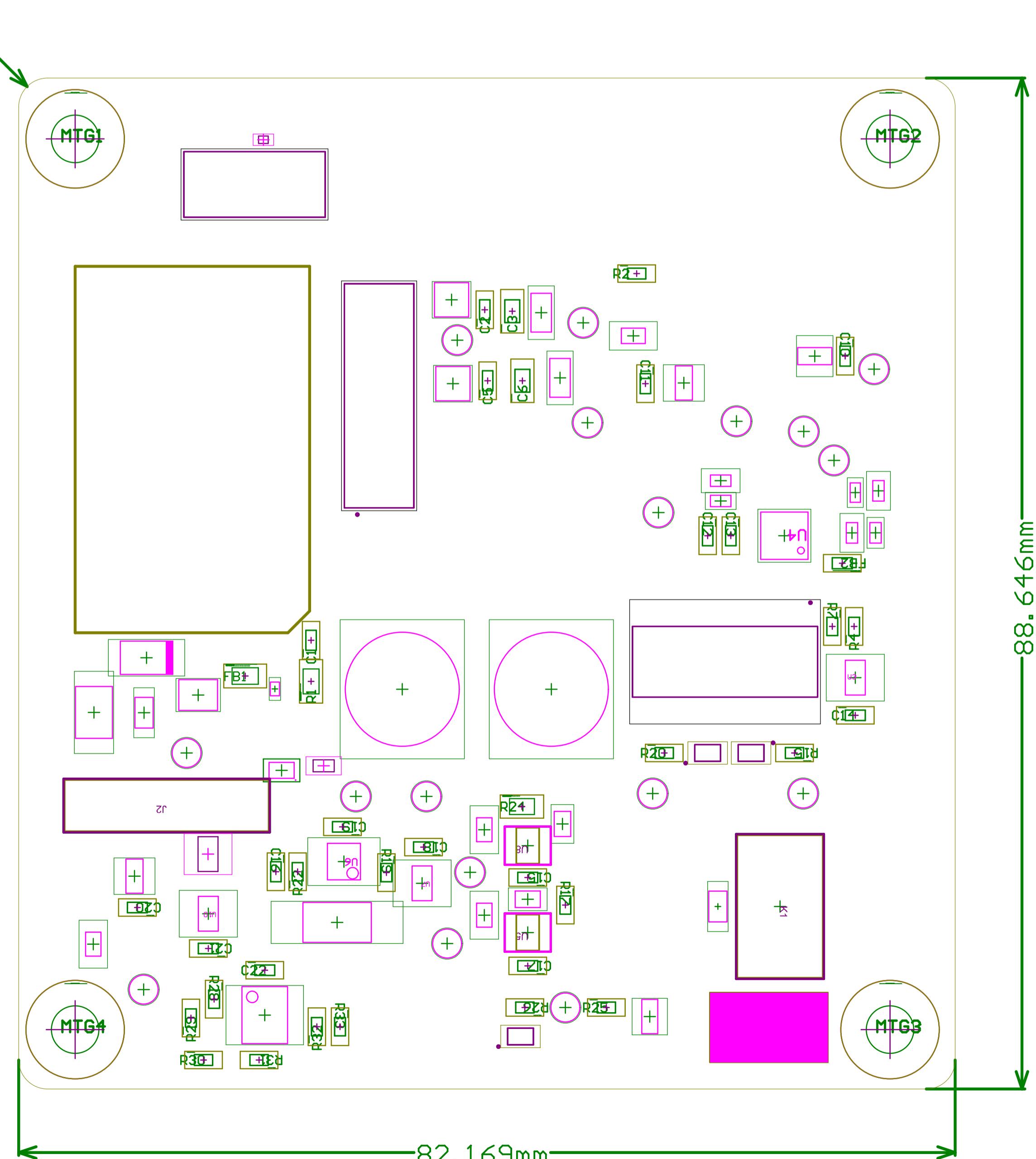
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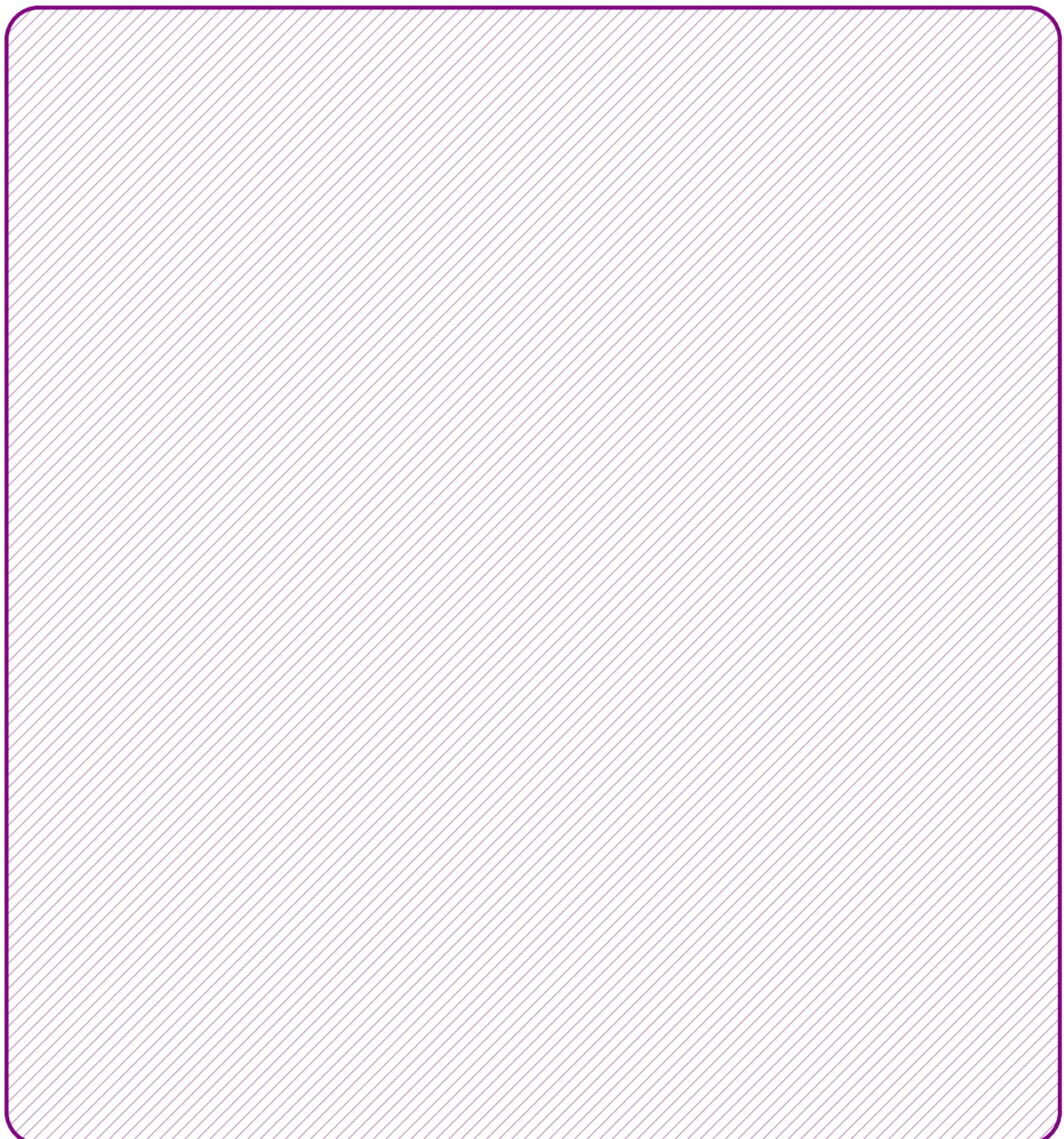
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
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	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

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Title BSPD

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Date: 3/2/2020 Time: 12:50:42 AM Sheet 1 of 1

File: UVM AERO BSPD.PcbDoc

Designer:  
Andrew Katz  
aakatz3@gmail.com  
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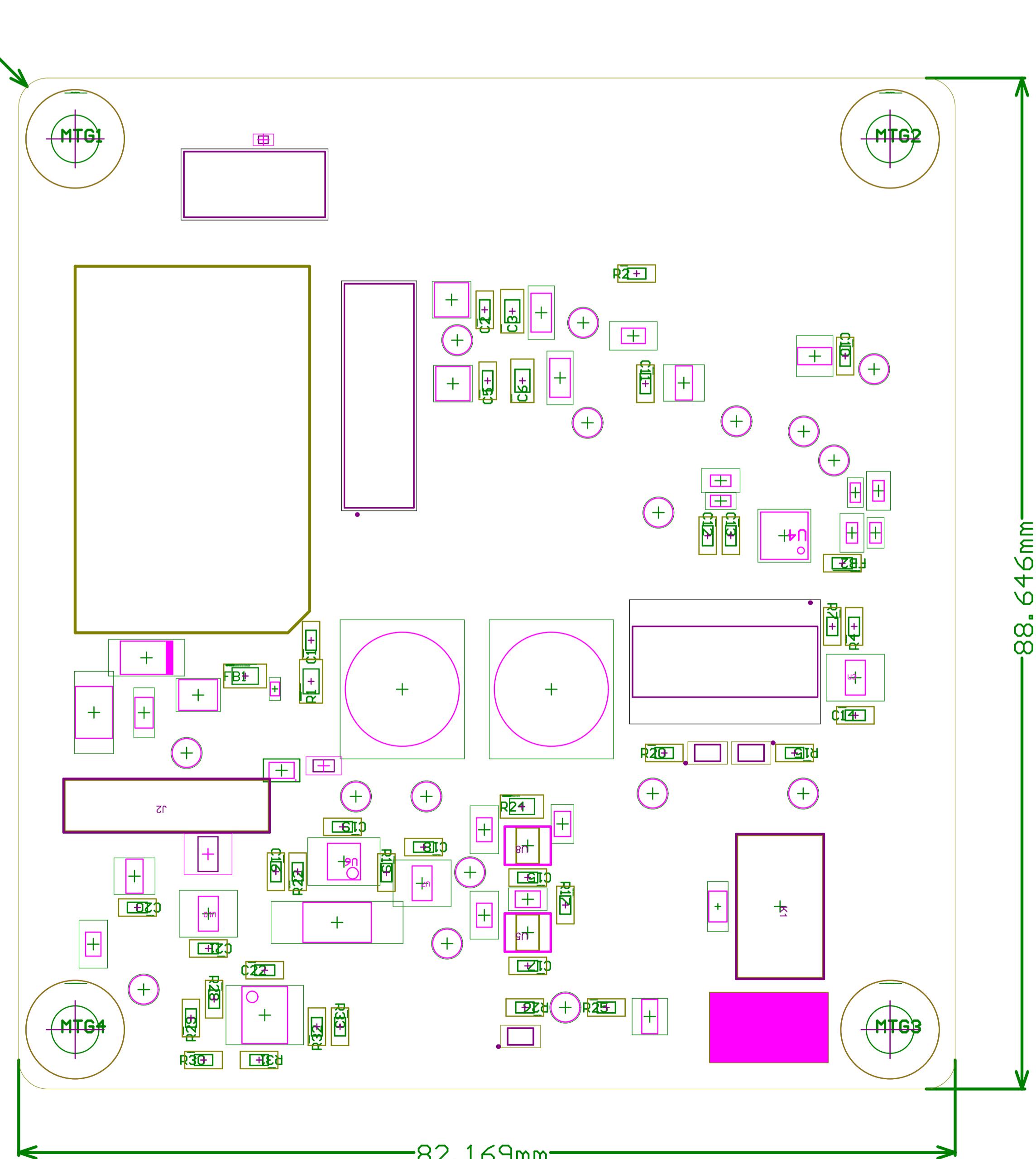
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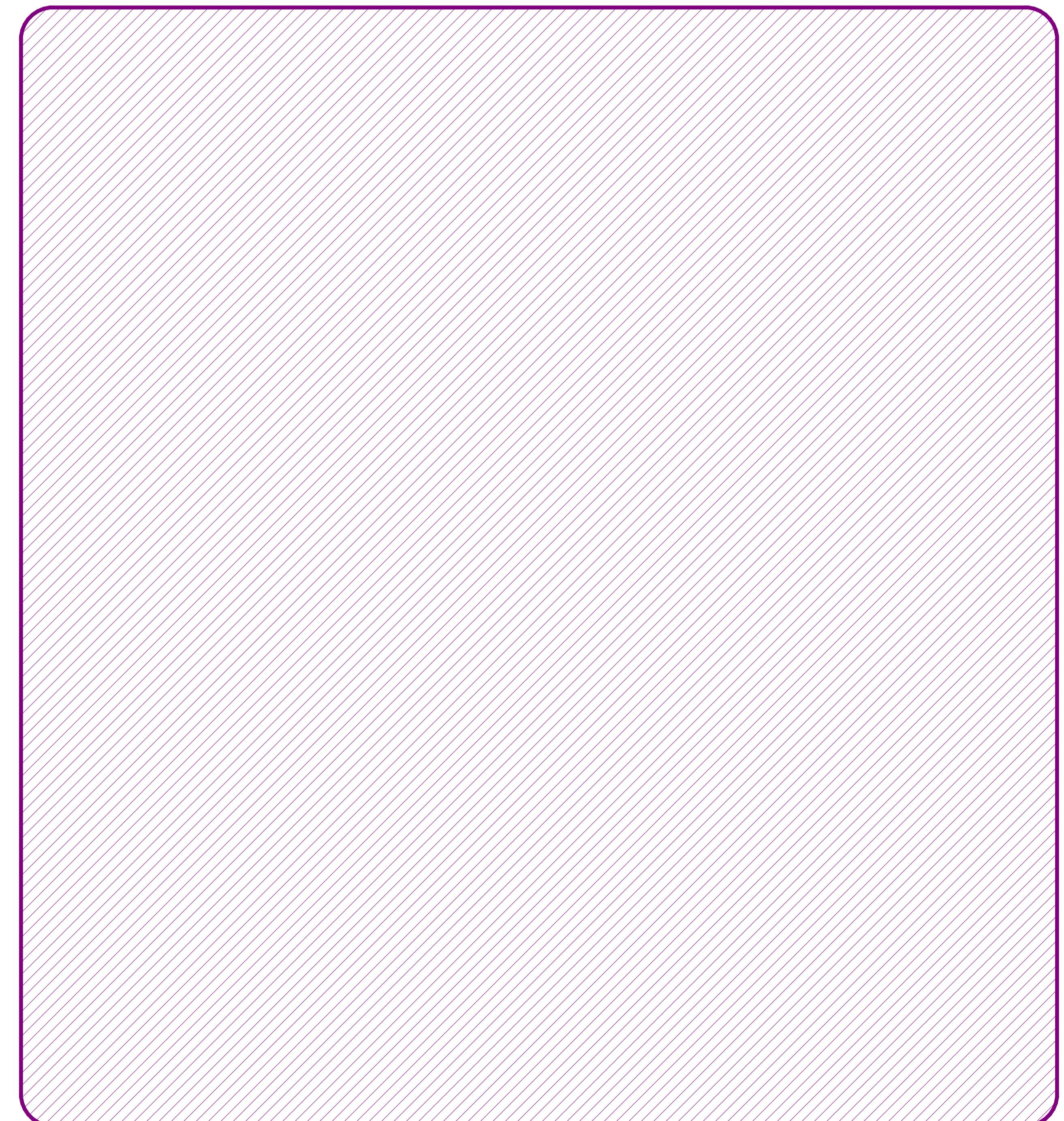
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
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Designer:  
Andrew Katz  
aakatz3@gmail.com  
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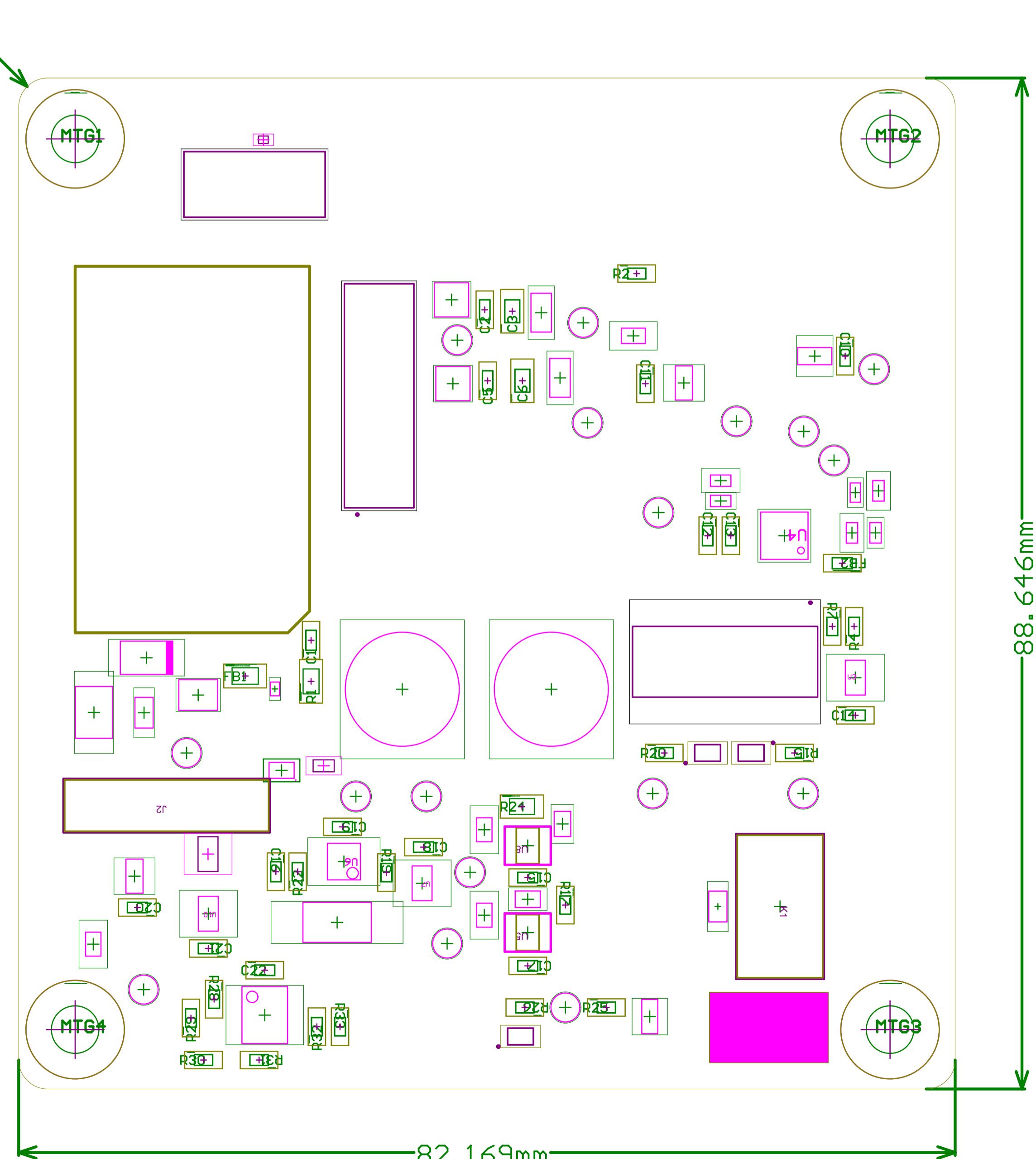
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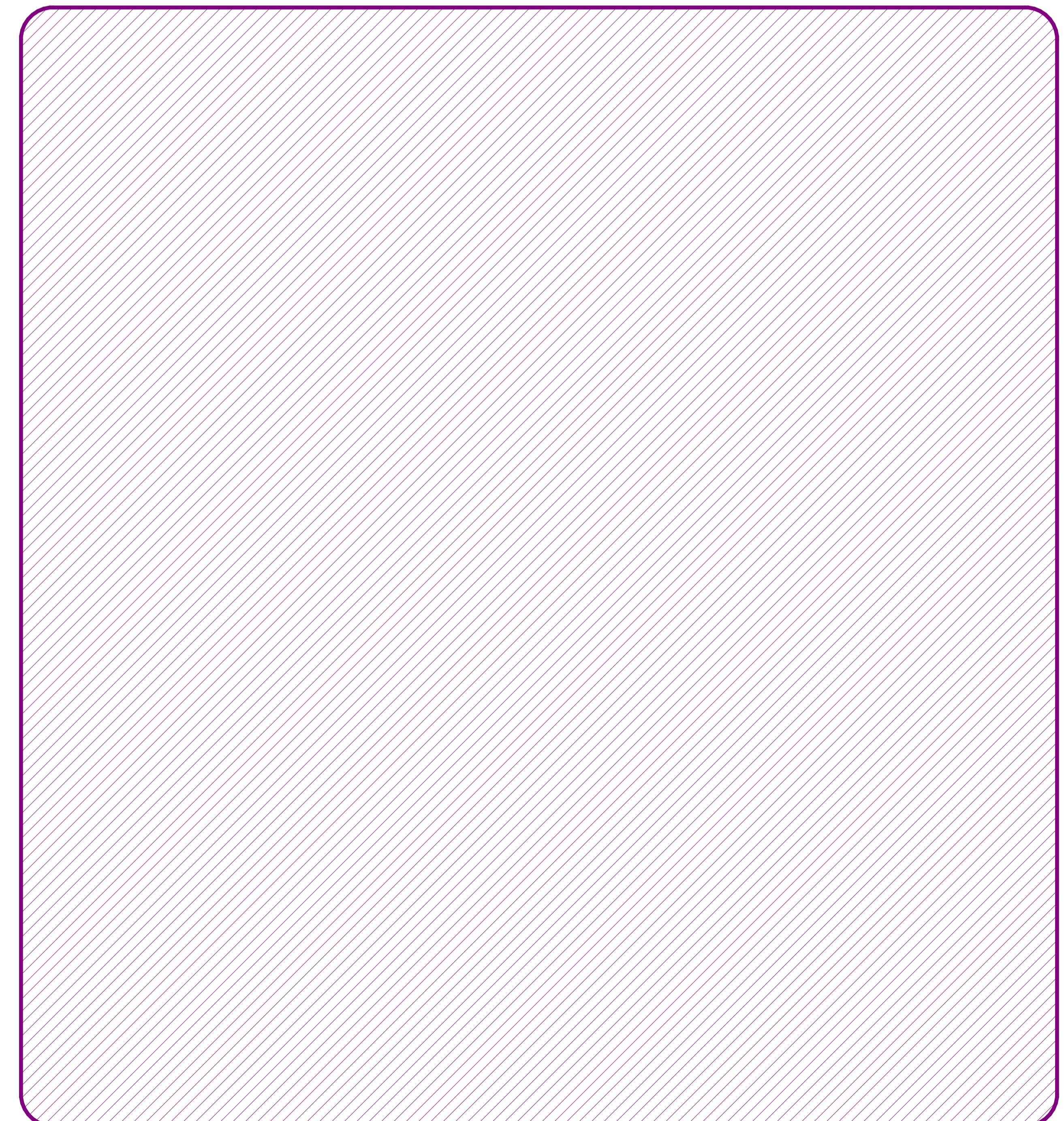
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
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Total board thickness: 62.80mil



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File: UVM AERO BSPD.PcbDoc	*

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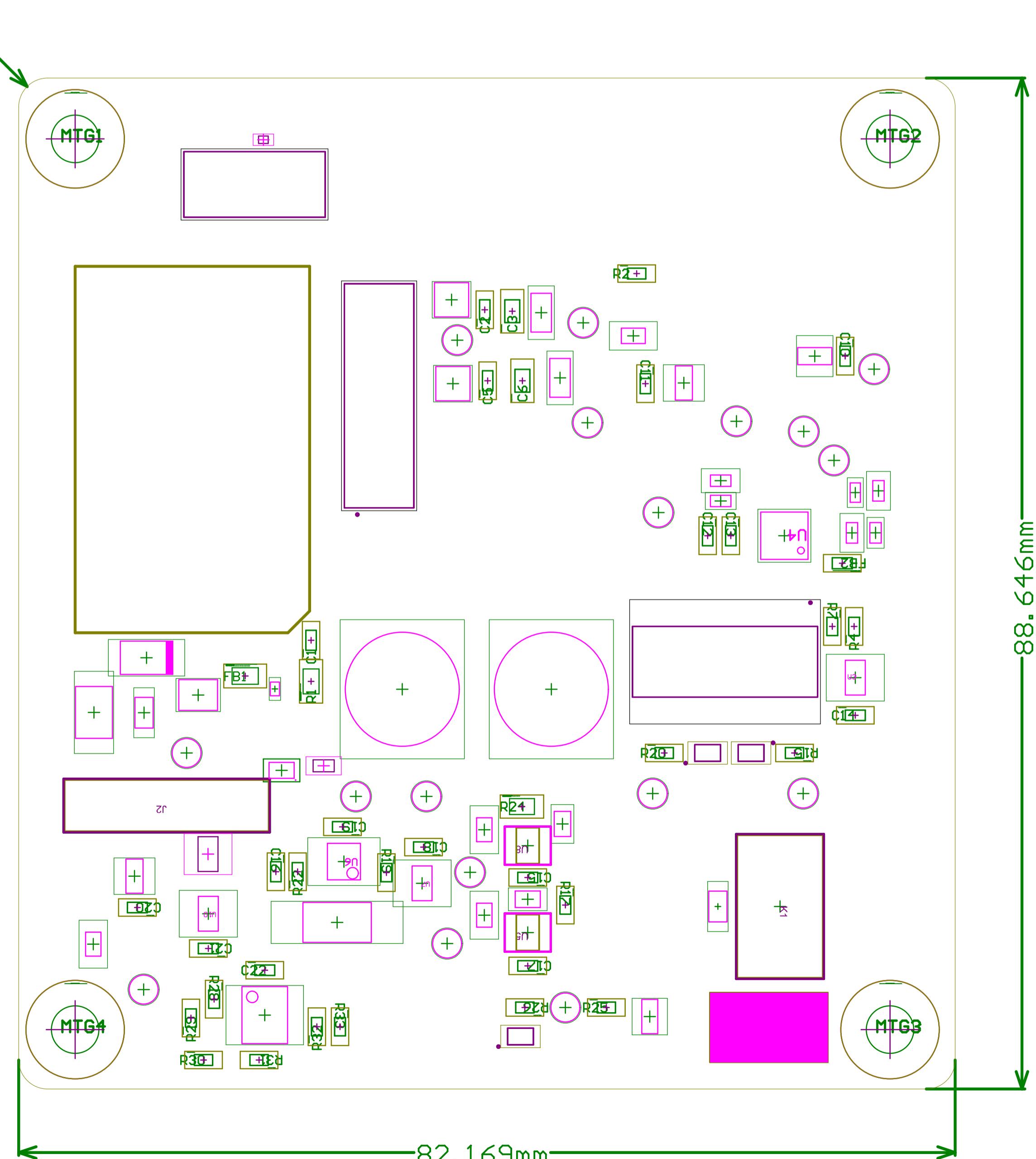
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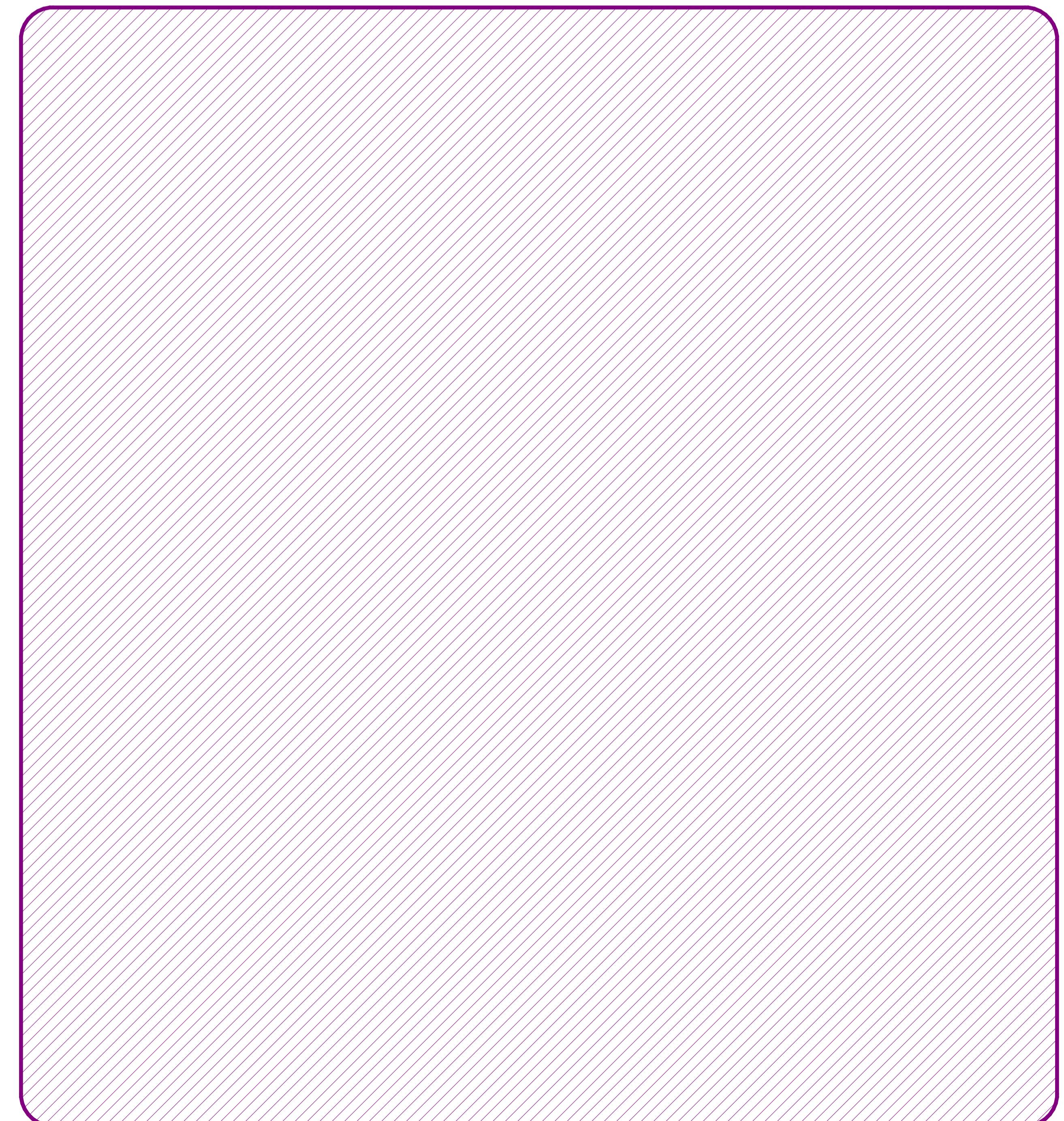
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
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Andrew Katz  
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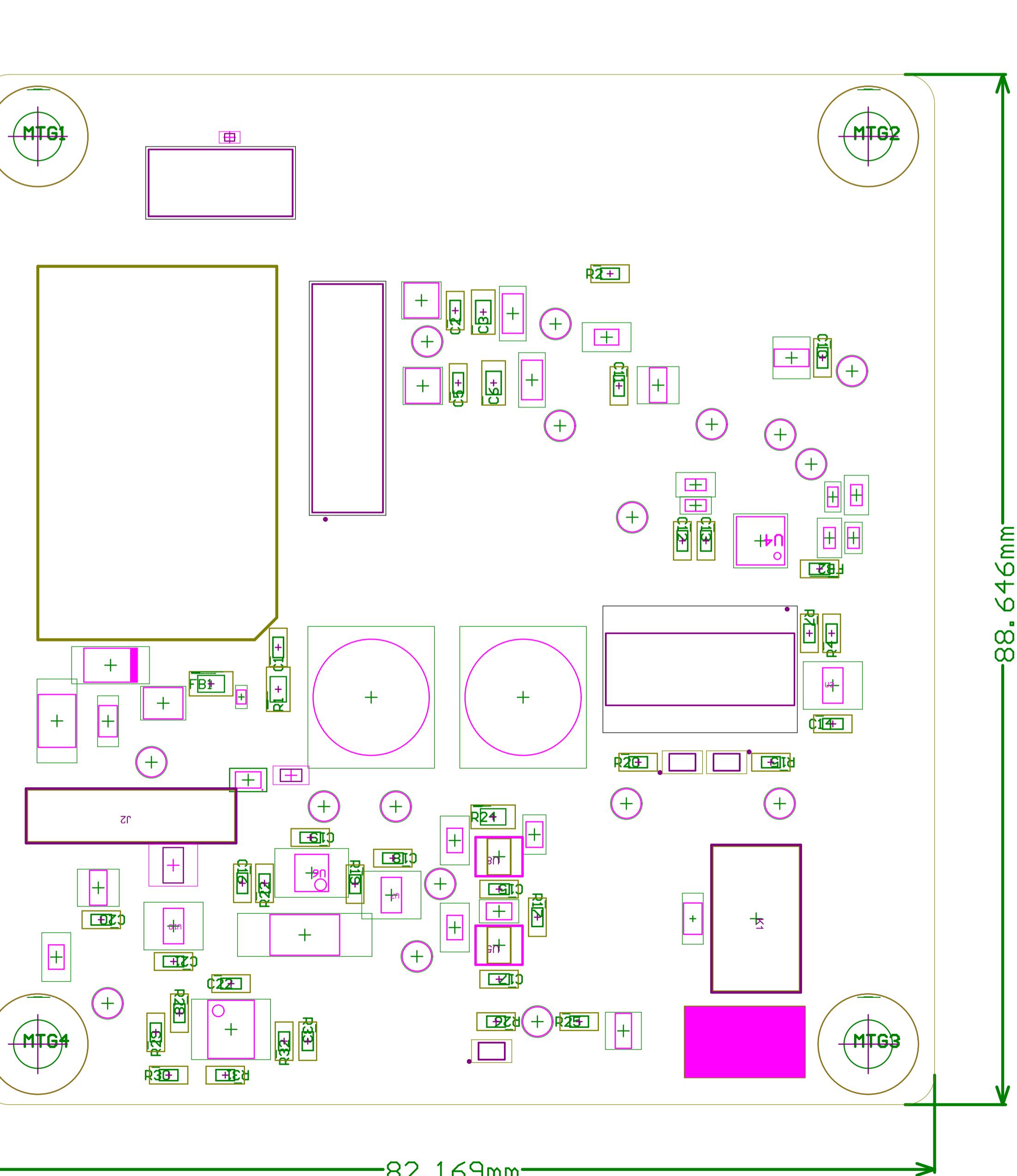
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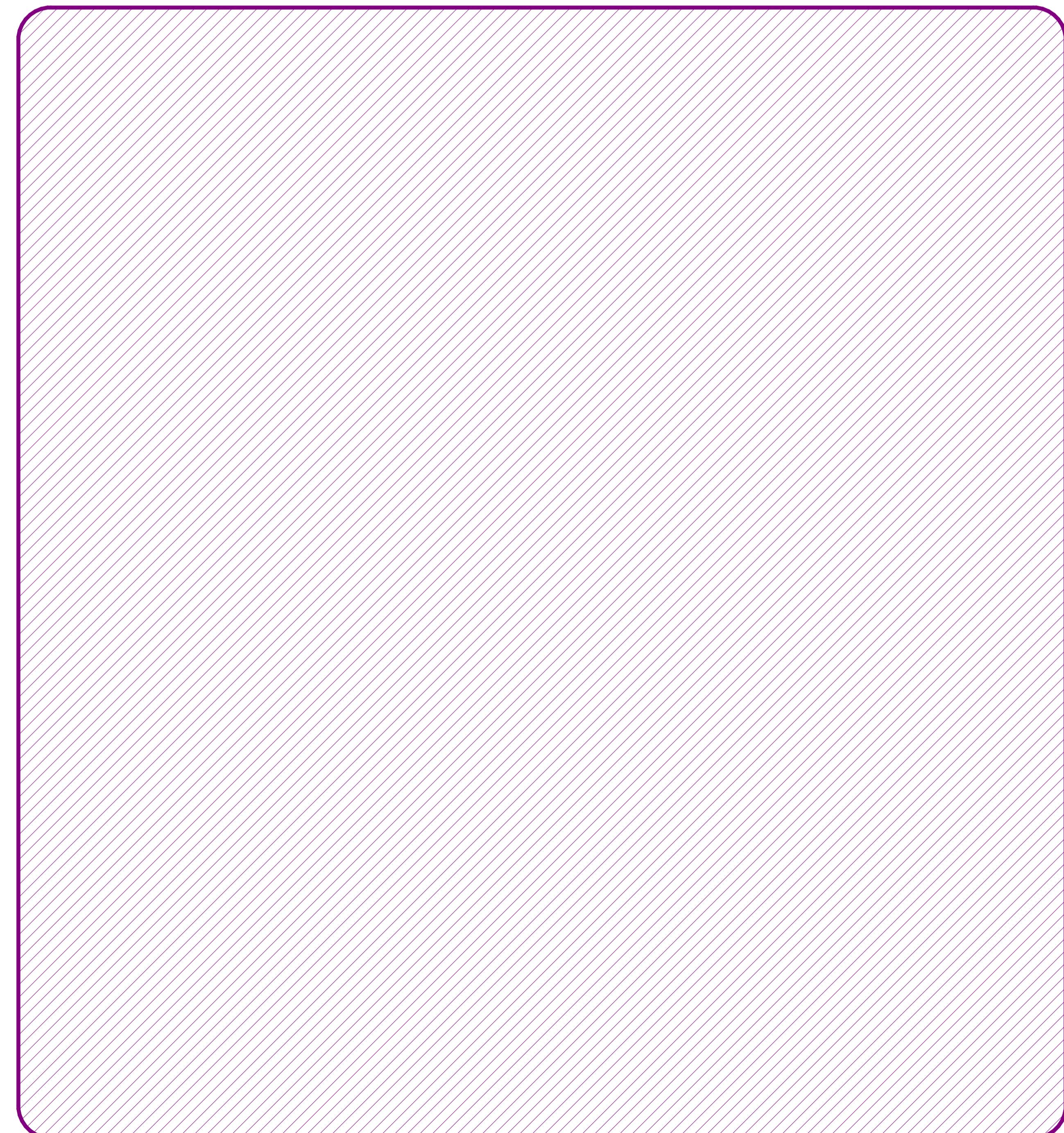
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
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	Top Solder	SM-001	1.00mil	4	GTS	
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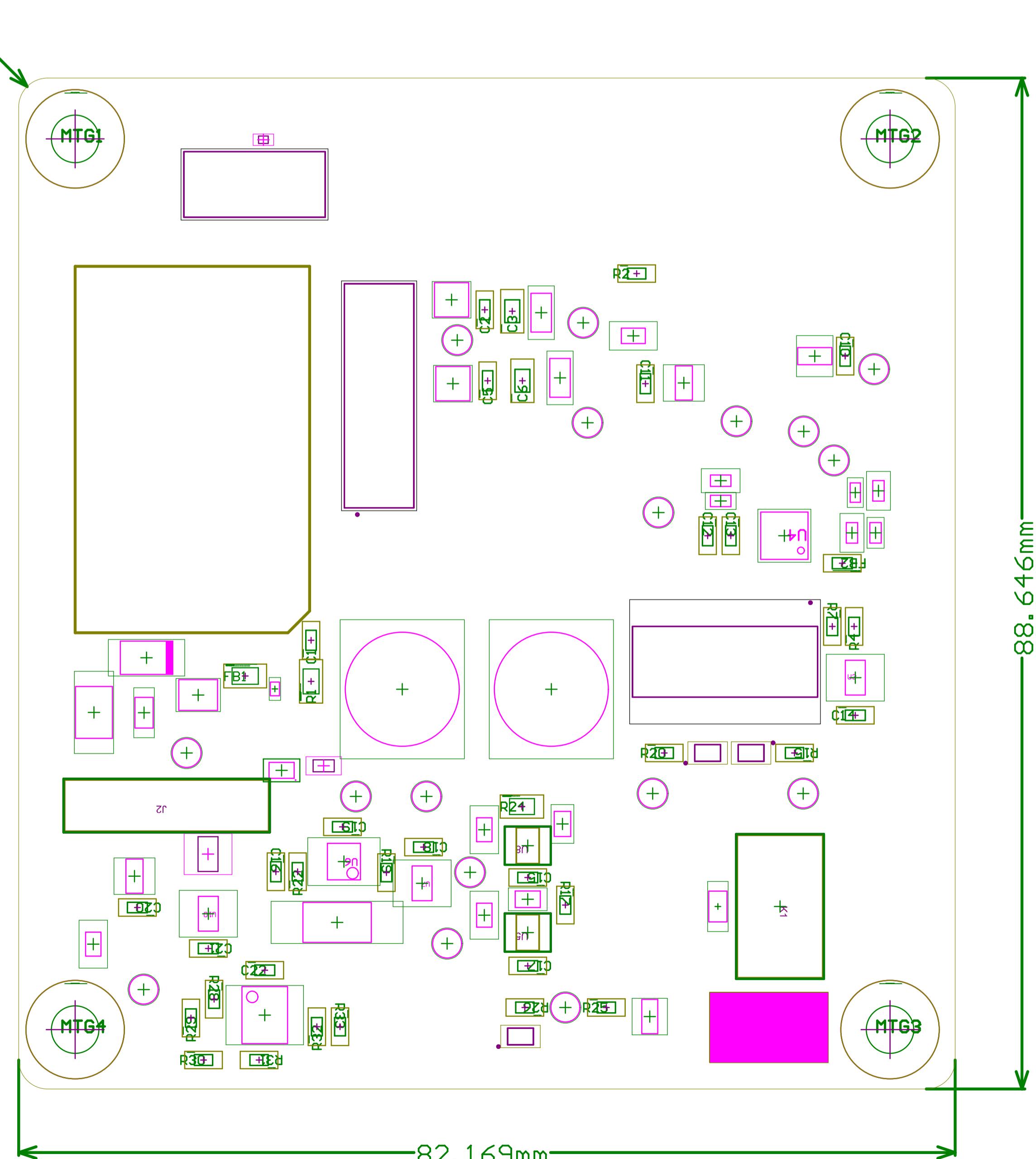
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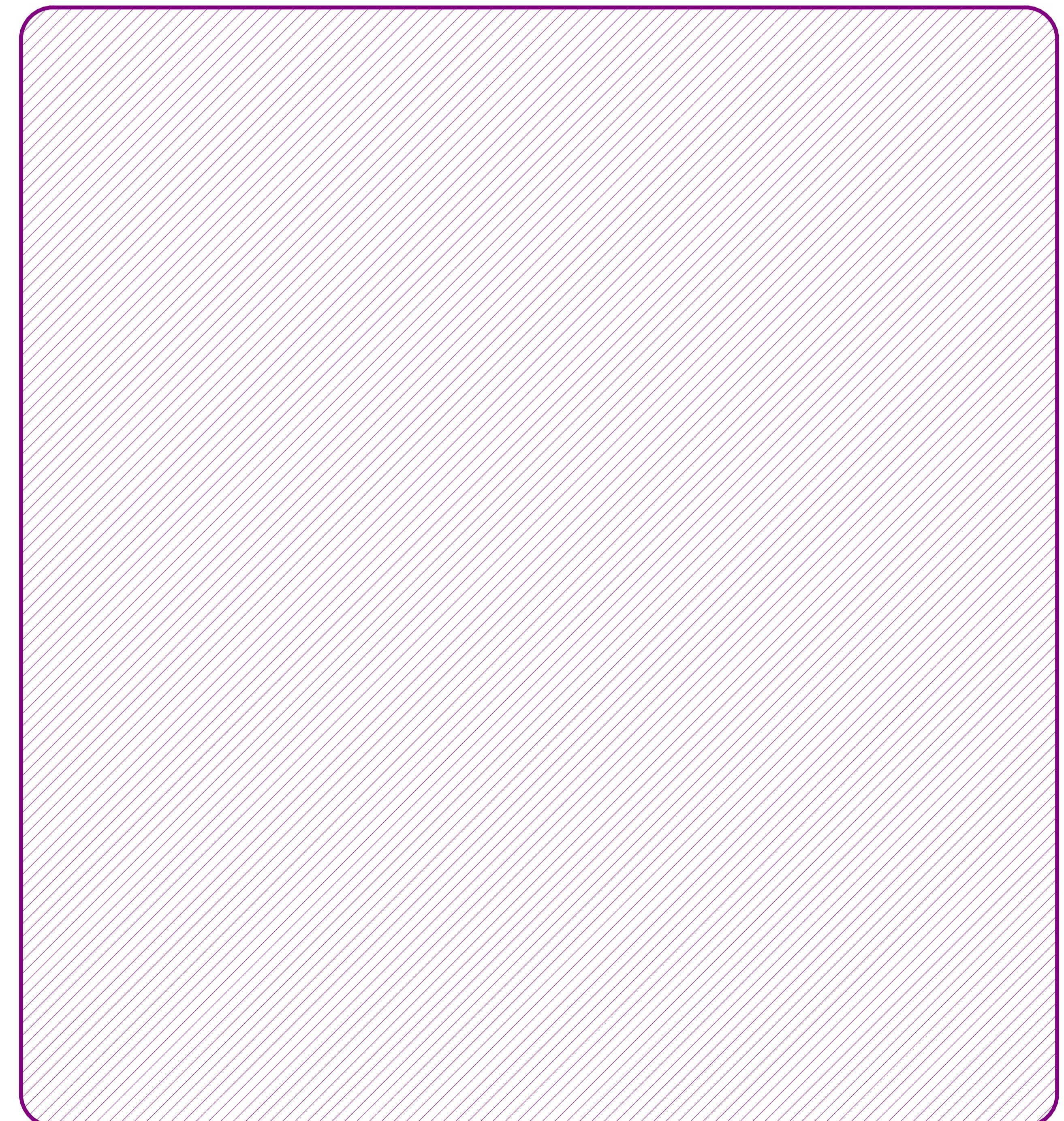
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
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	Top Solder	SM-001	1.00mil	4	GTS	
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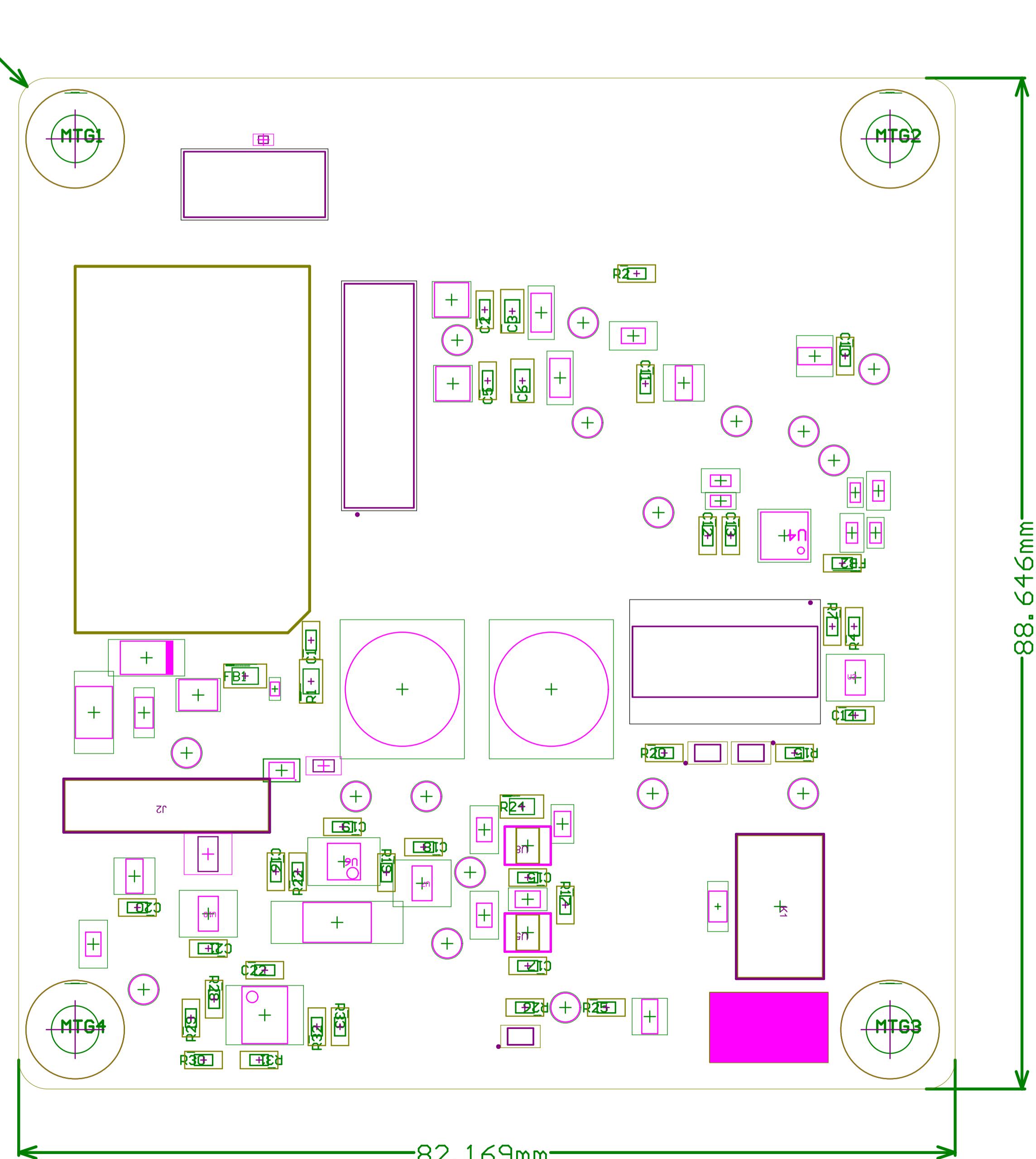
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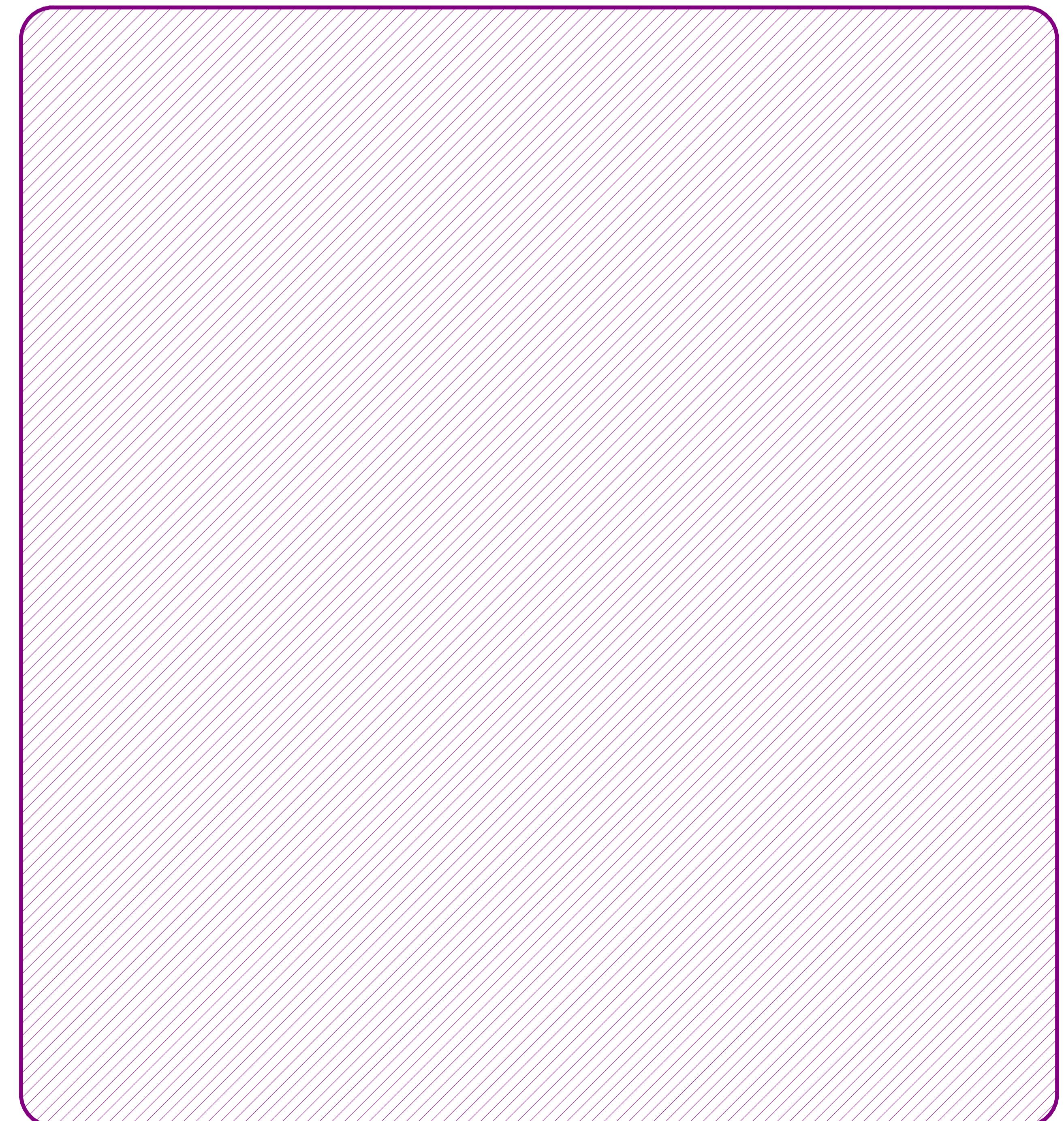
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
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	Top Solder	SM-001	1.00mil	4	GTS	
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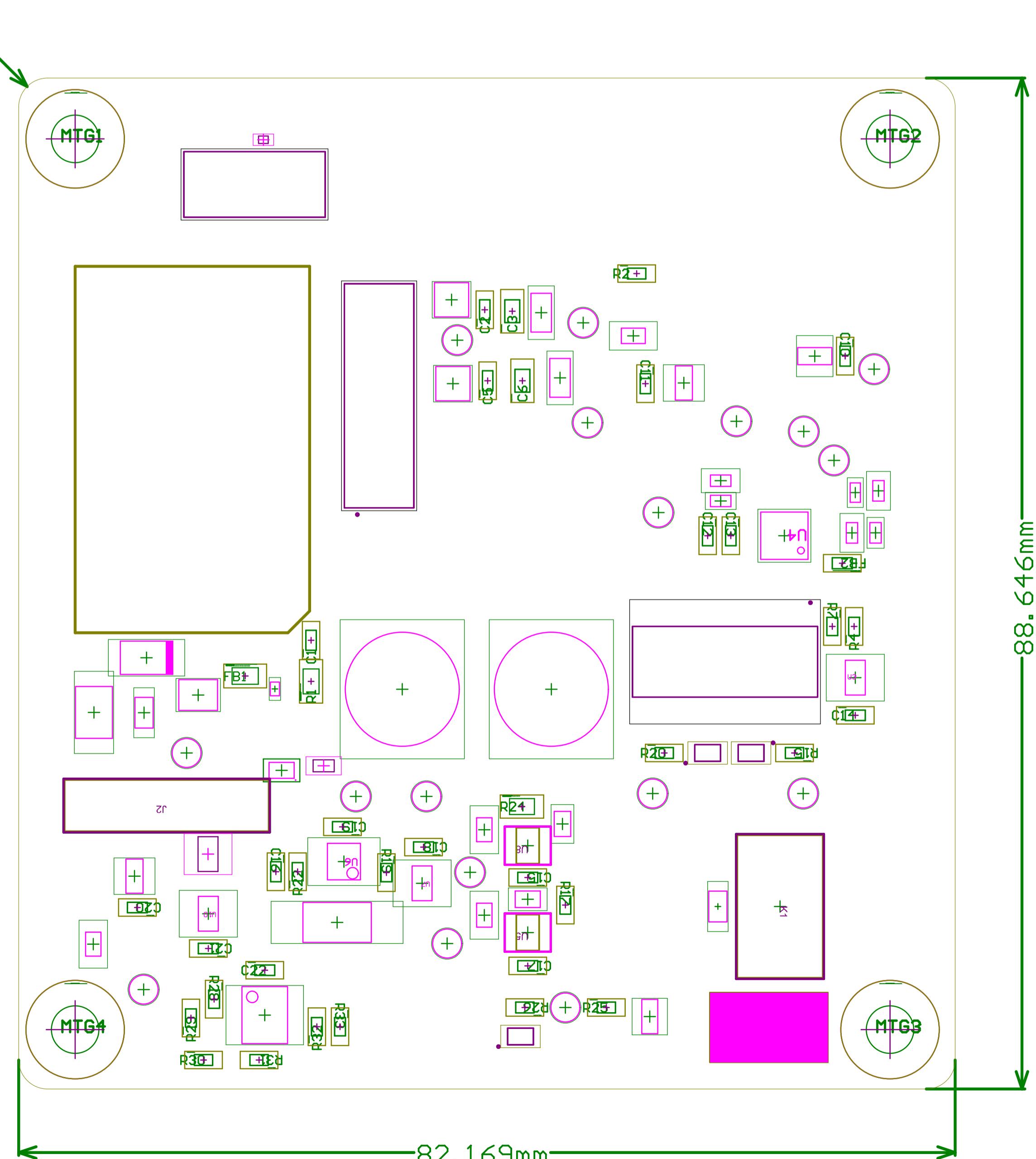
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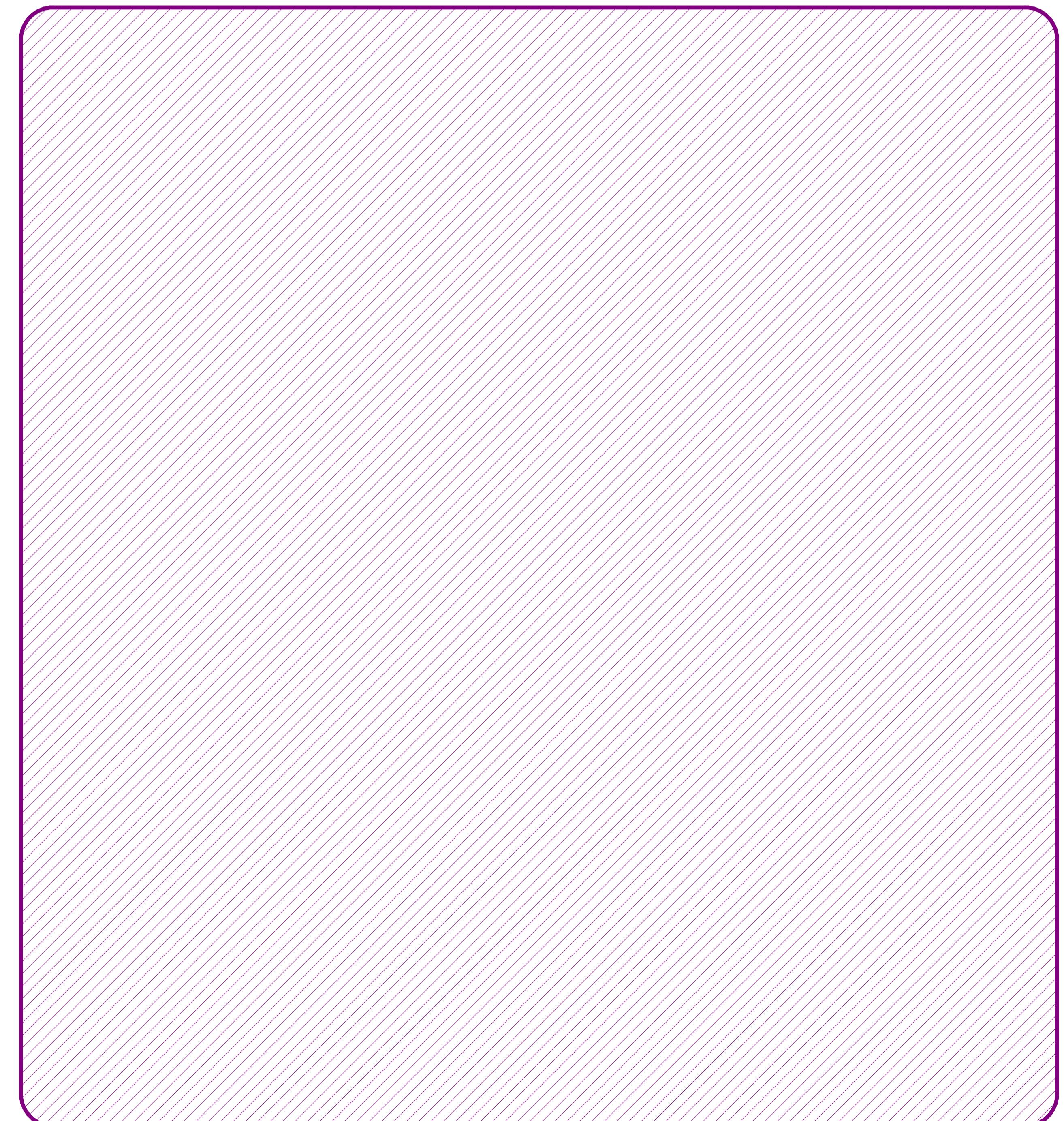
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Andrew Katz  
aakatz3@gmail.com  
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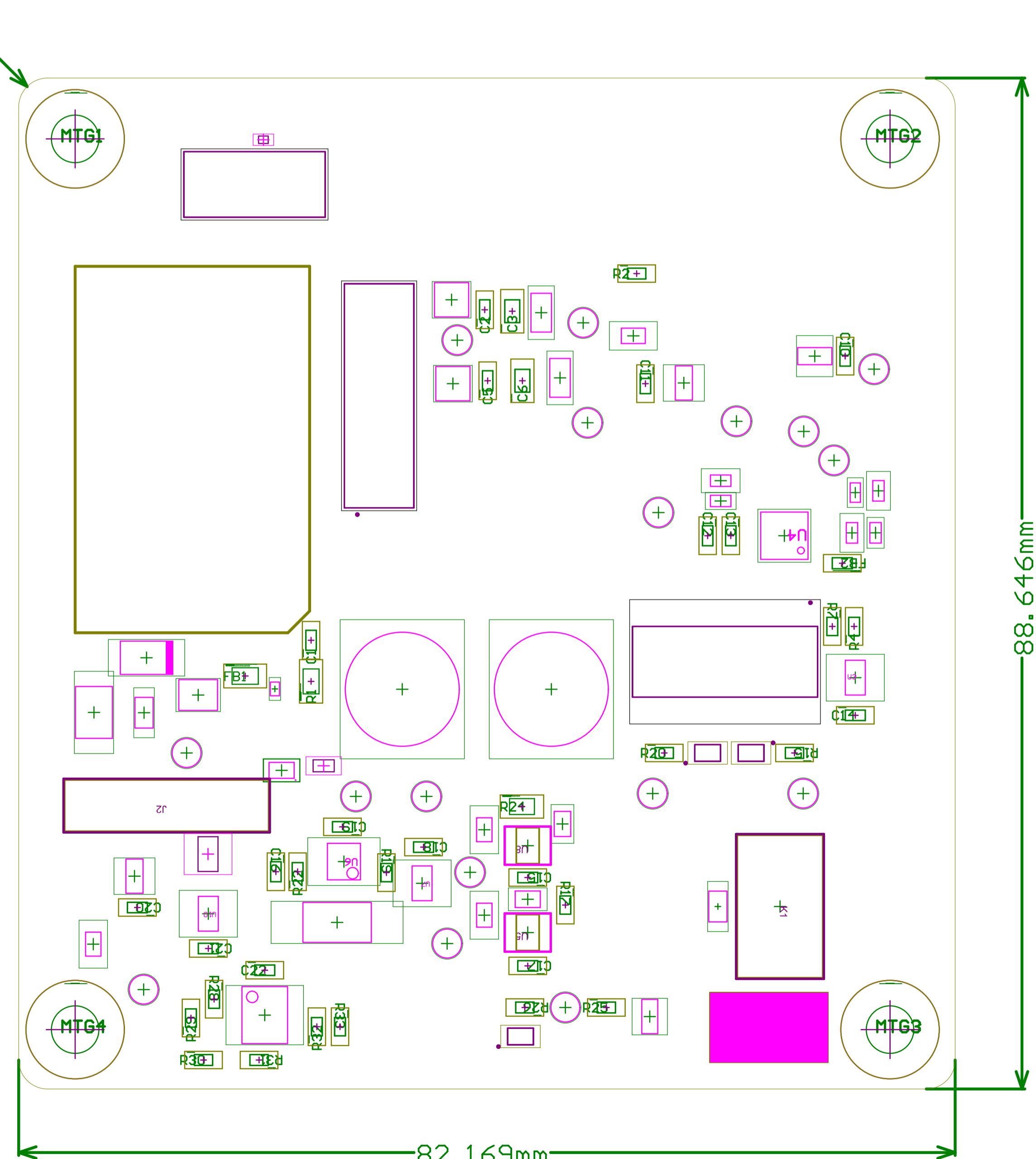
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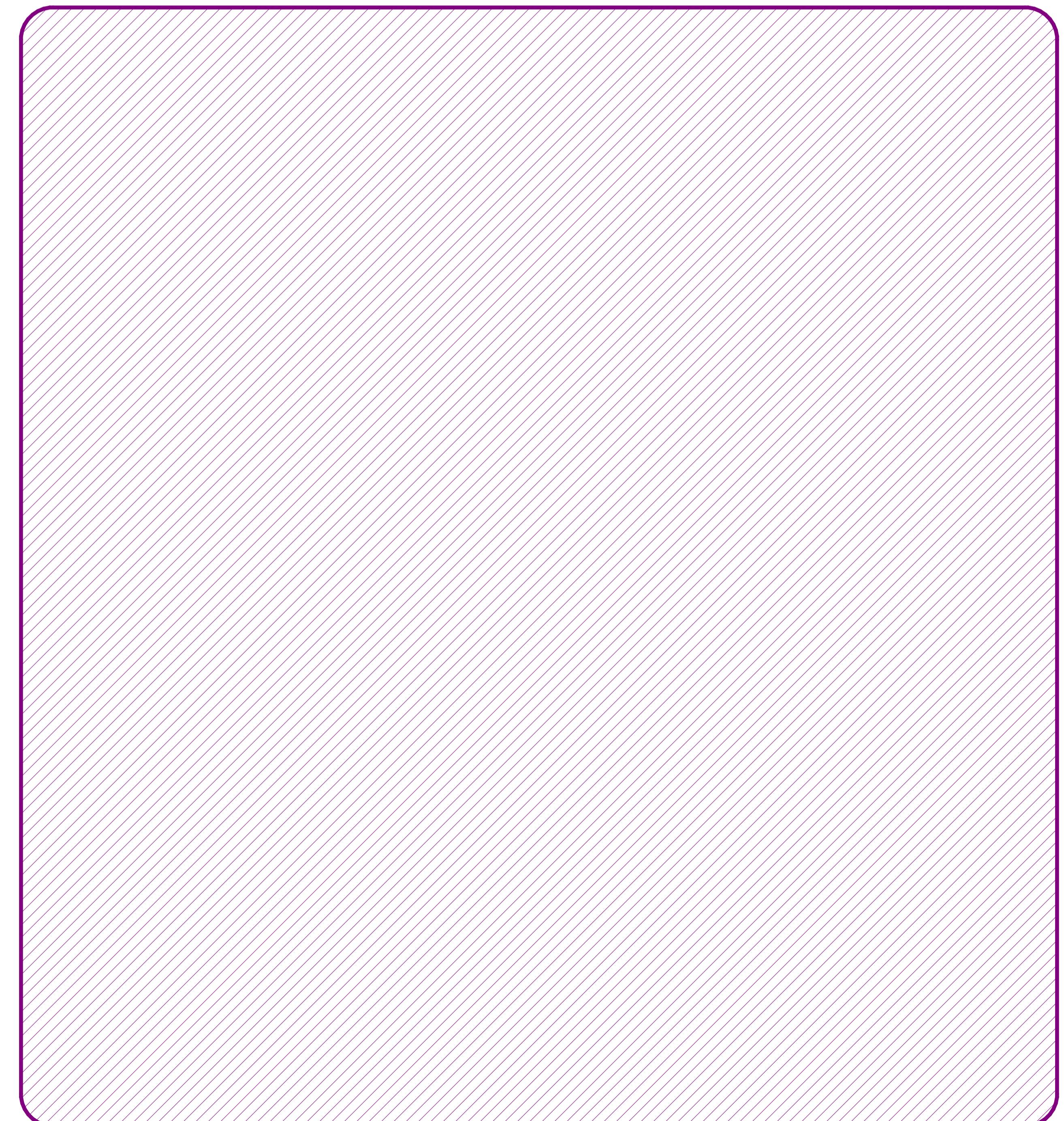
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
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	Top Solder	SM-001	1.00mil	4	GTS	
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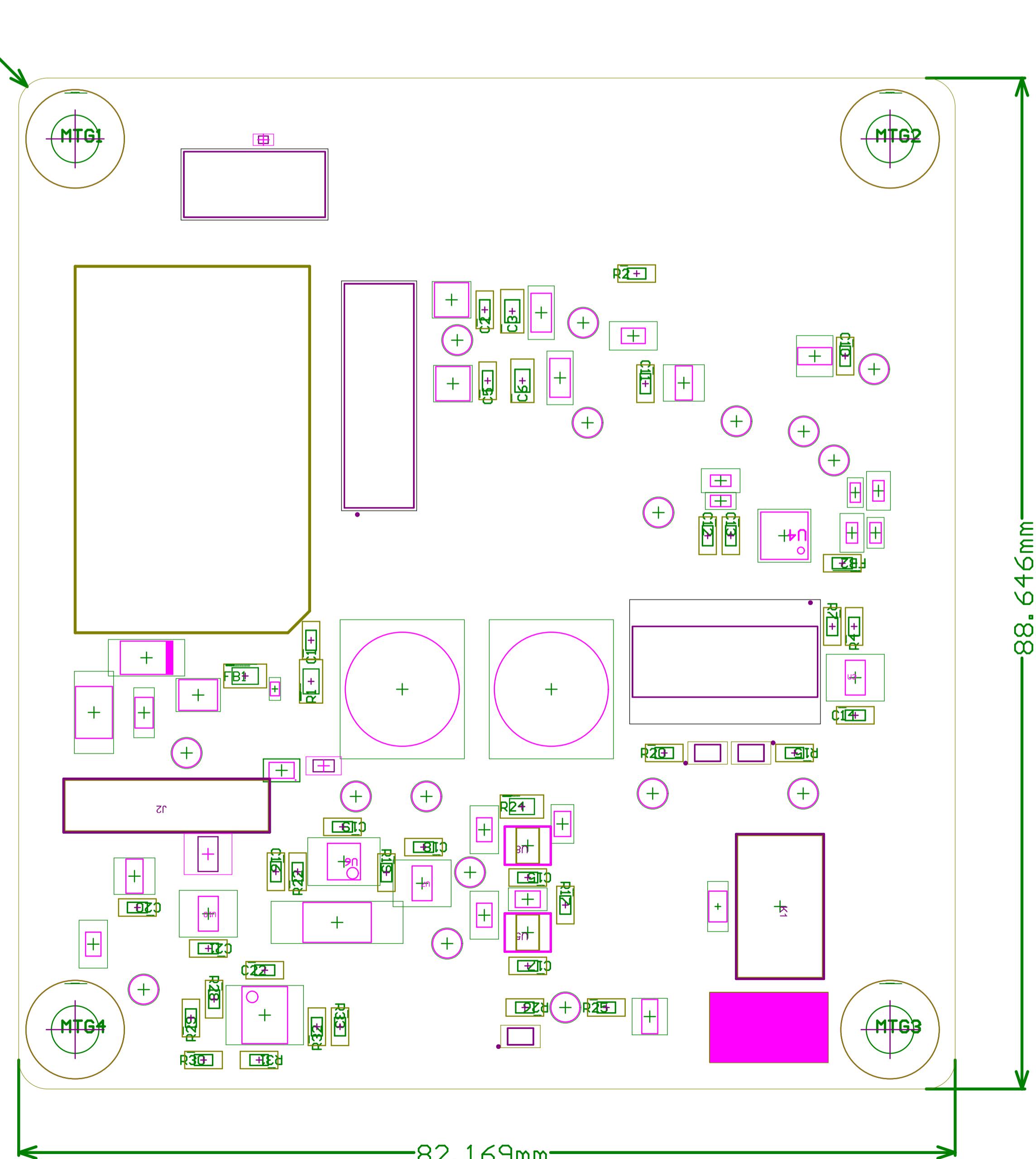
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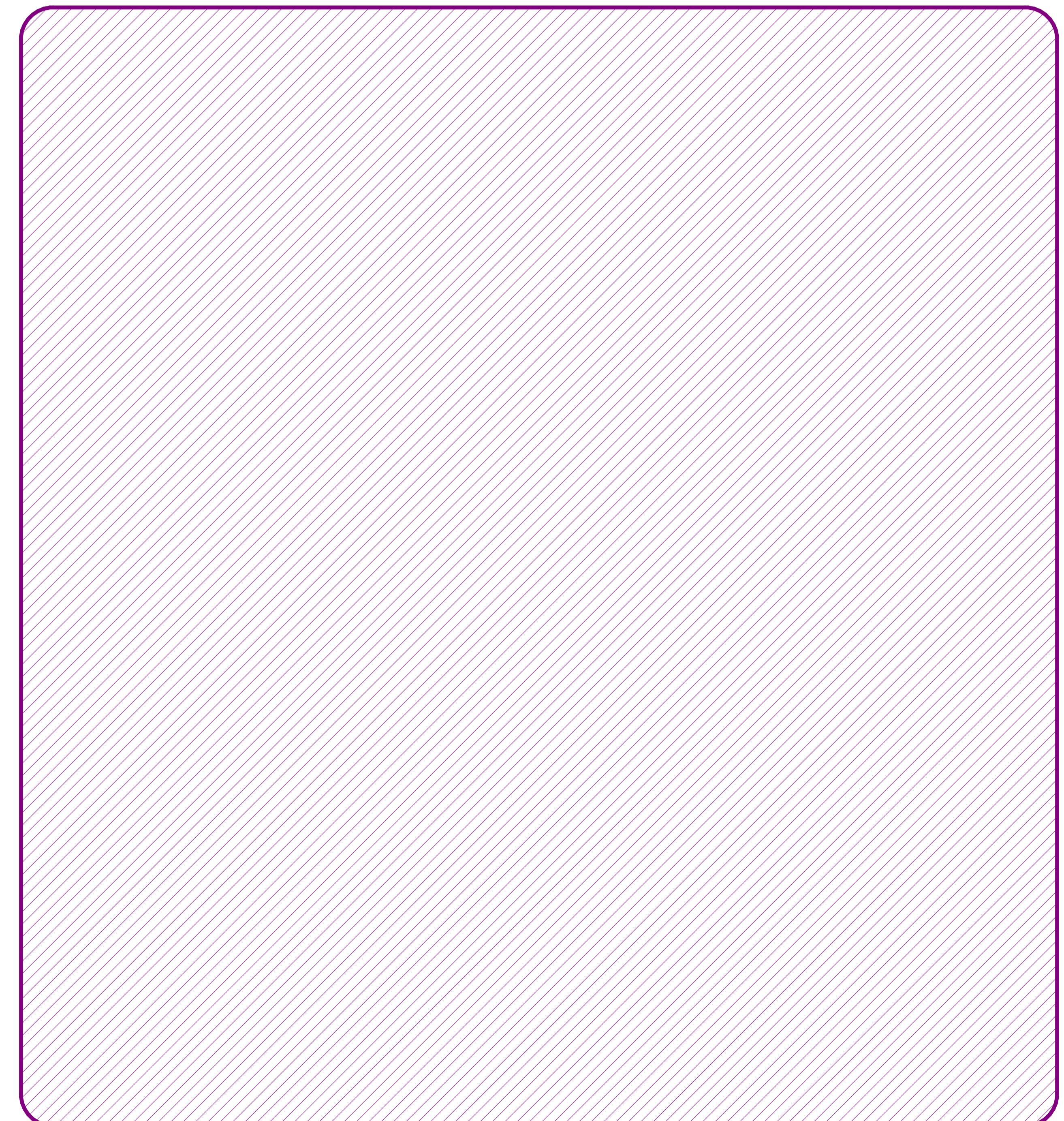
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	Top Solder	SM-001	1.00mil	4	GTS	
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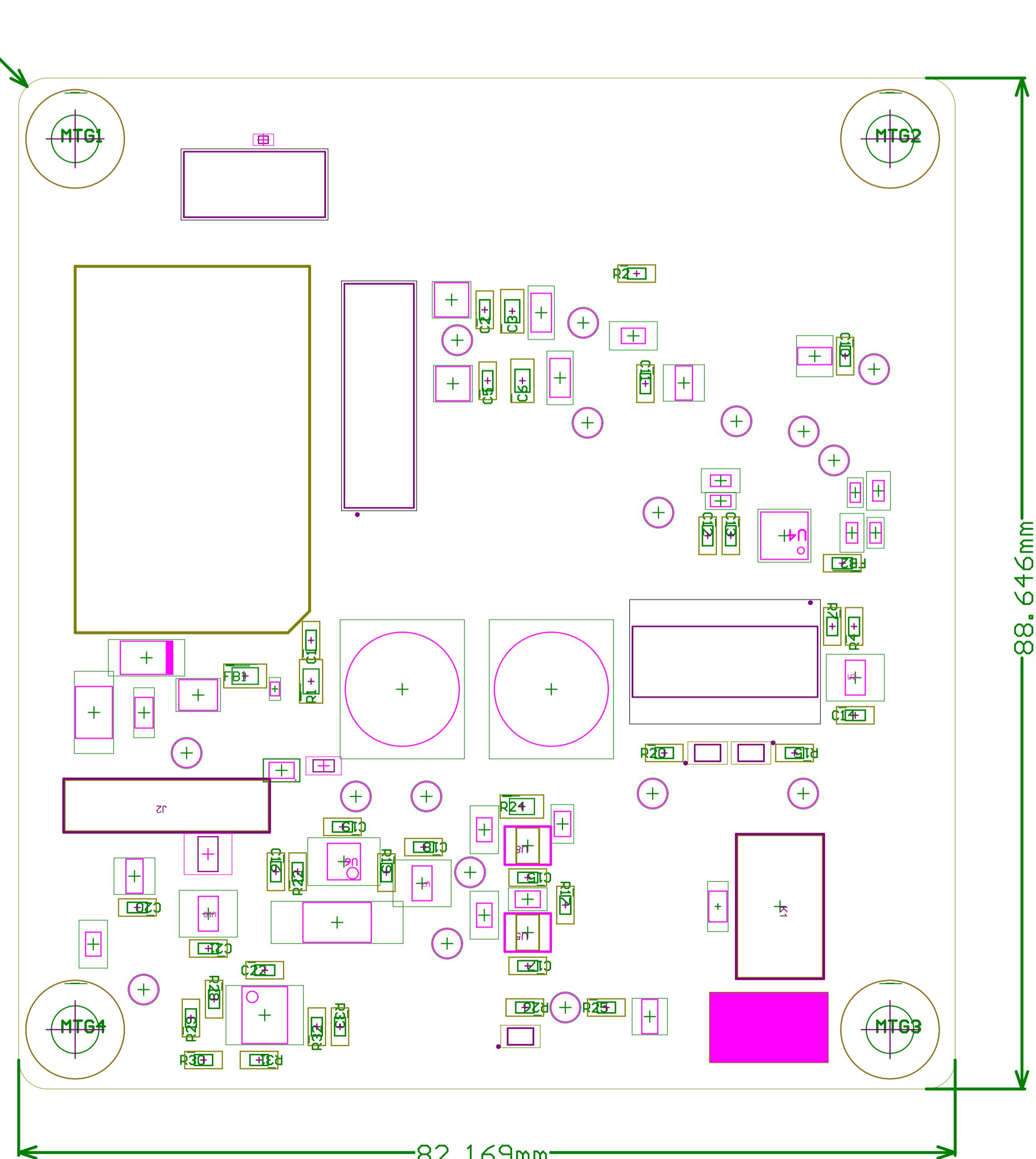
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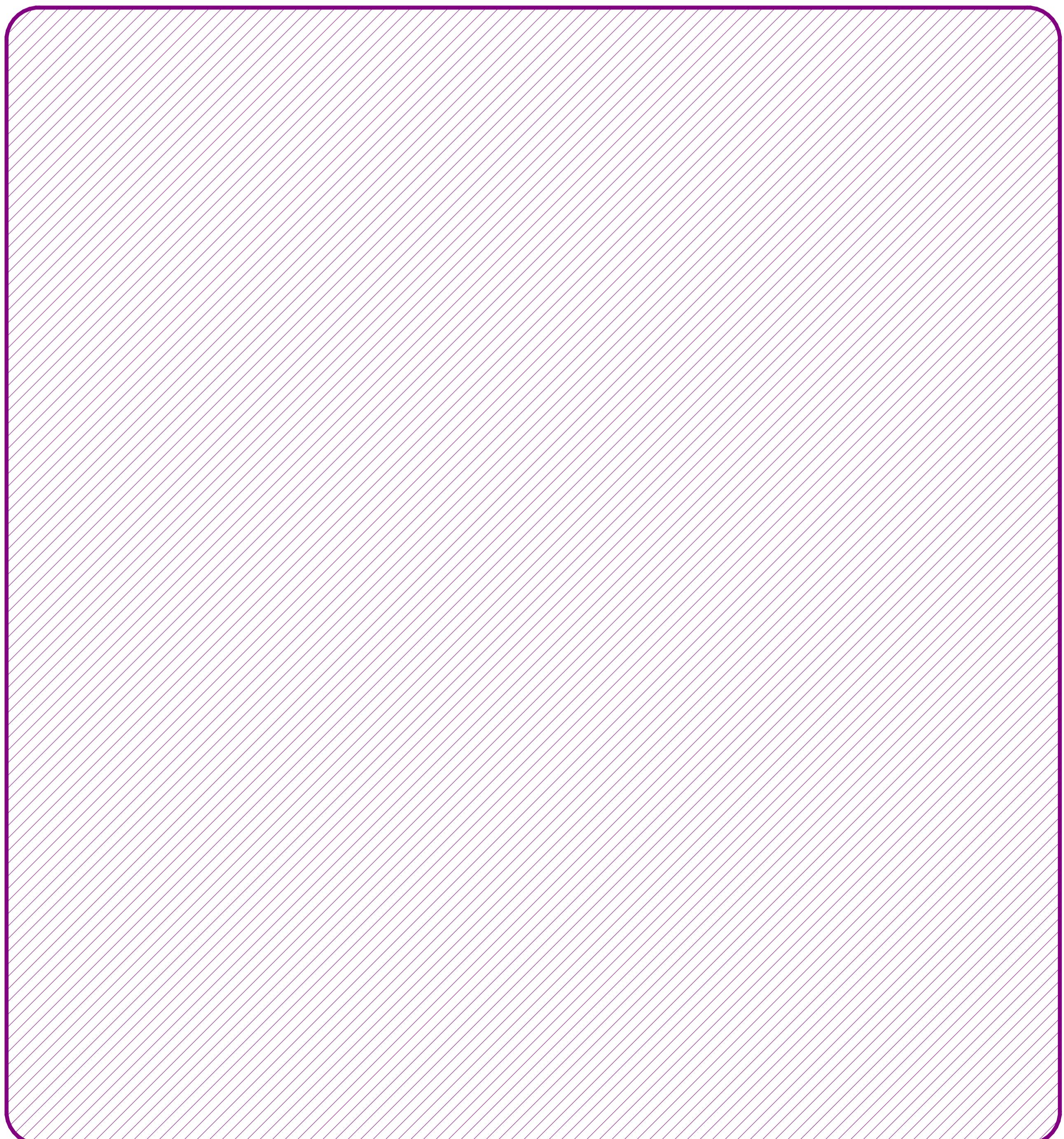
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
2	Bottom Layer	Copper	1.40mil		GBL	
	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil



Title: BSPD	Designer: Andrew Katz aakatz3@gmail.com
Size: Letter	Number:
Date: 3/2/2020	Revision:
Time: 12:50:42 AM	Sheet 1 of 1
File: UVM AERO BSPD.PcbDoc	*

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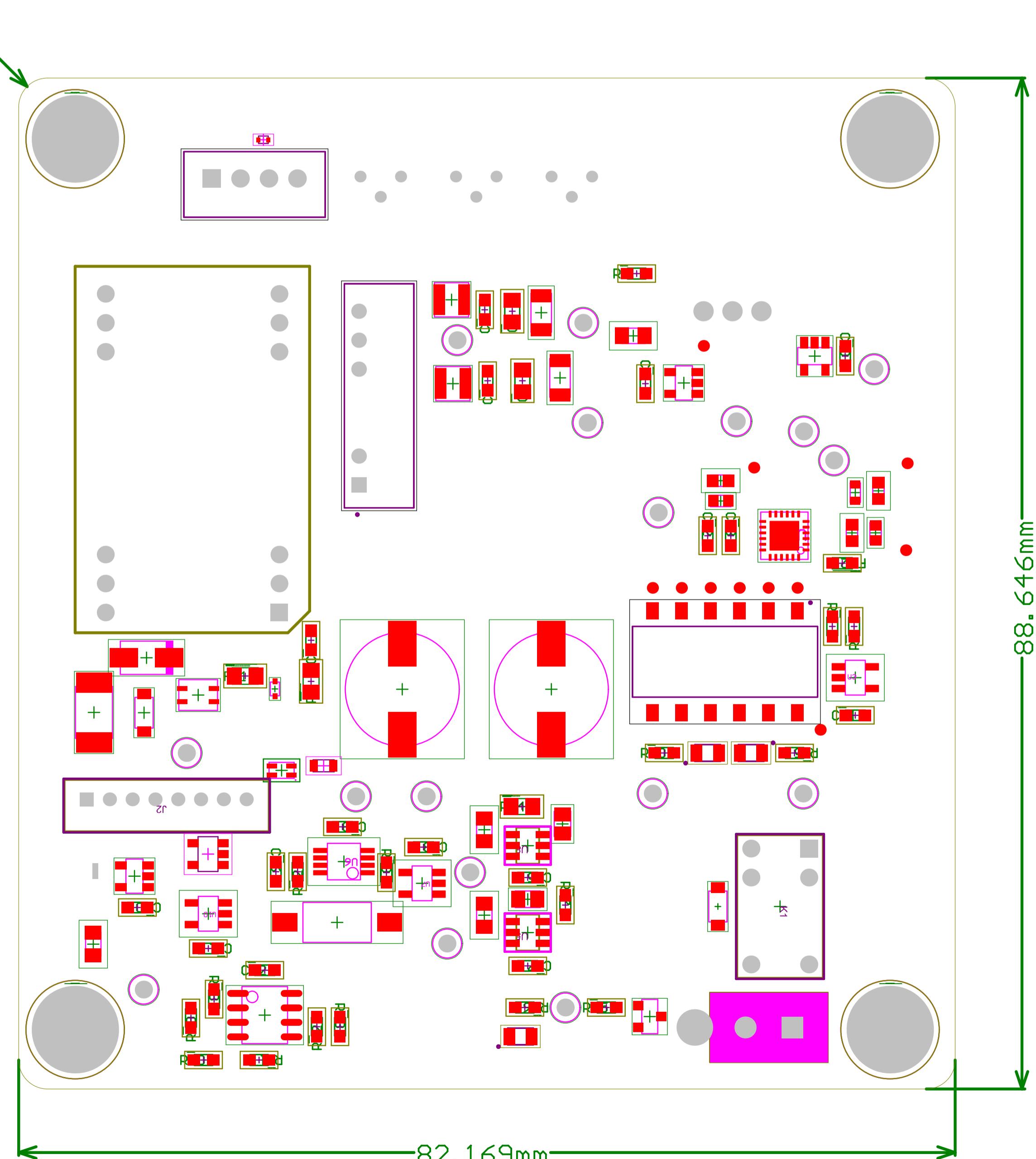
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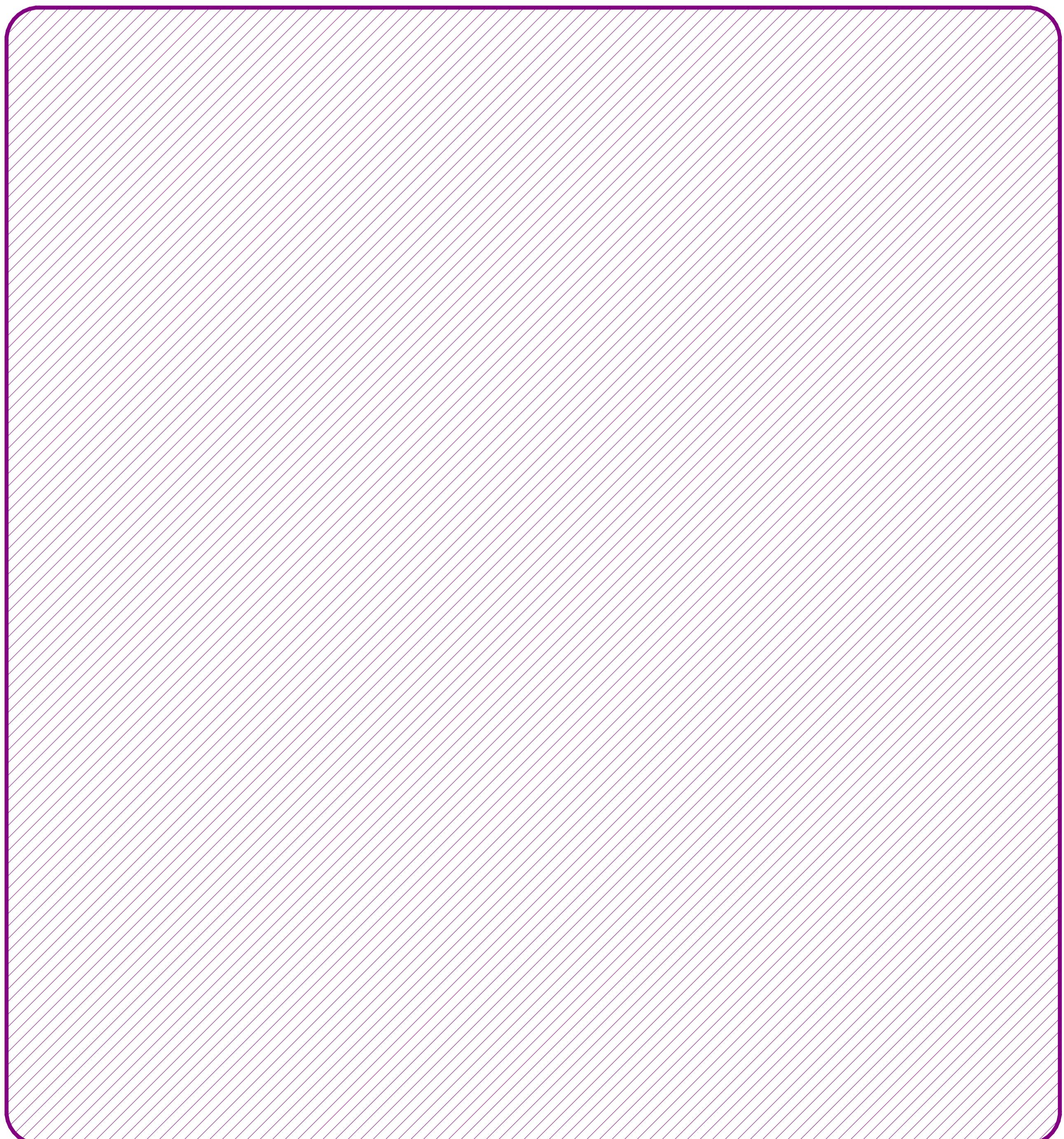
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
2	Bottom Layer	Copper	1.40mil		GBL	
	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil



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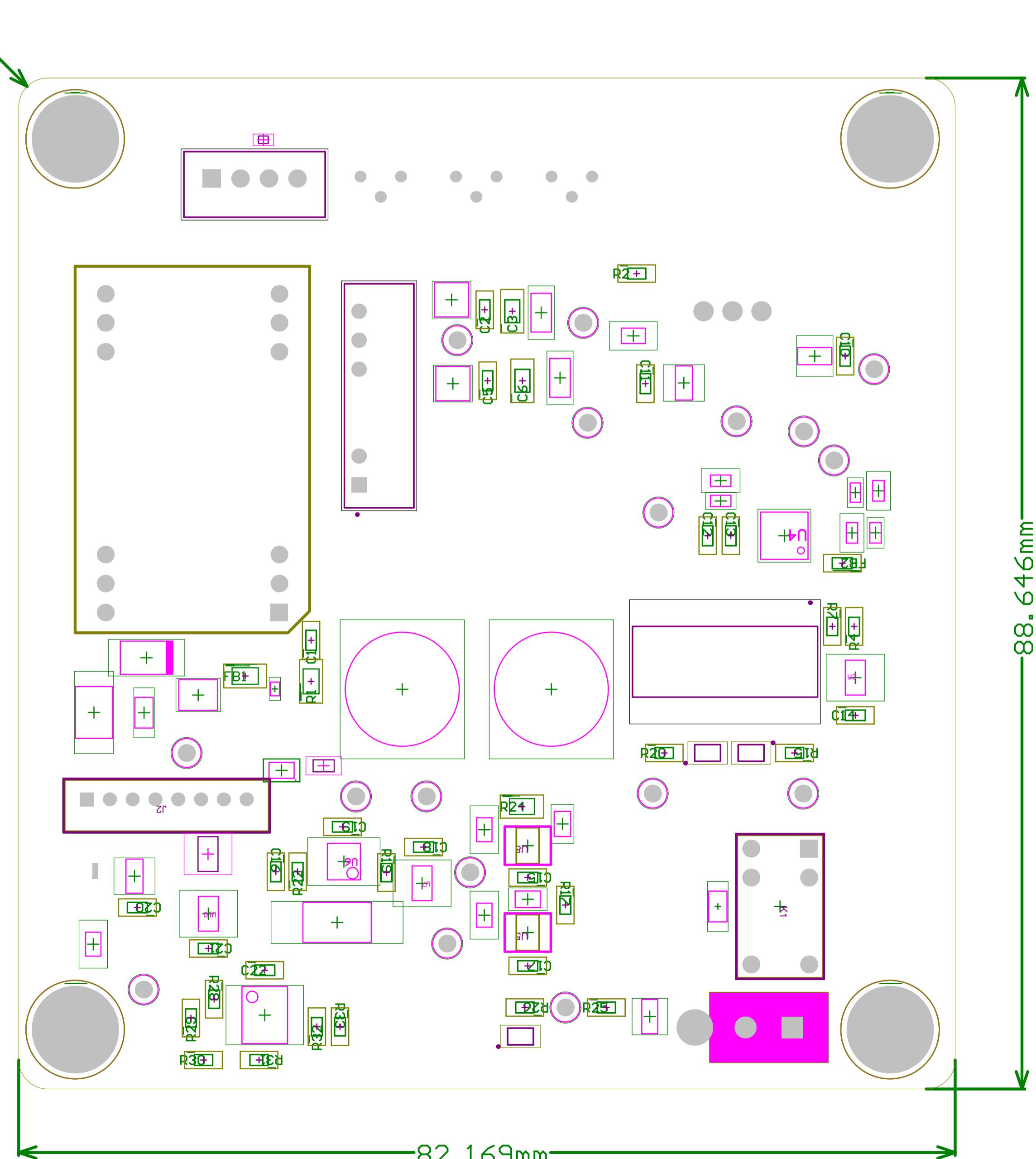
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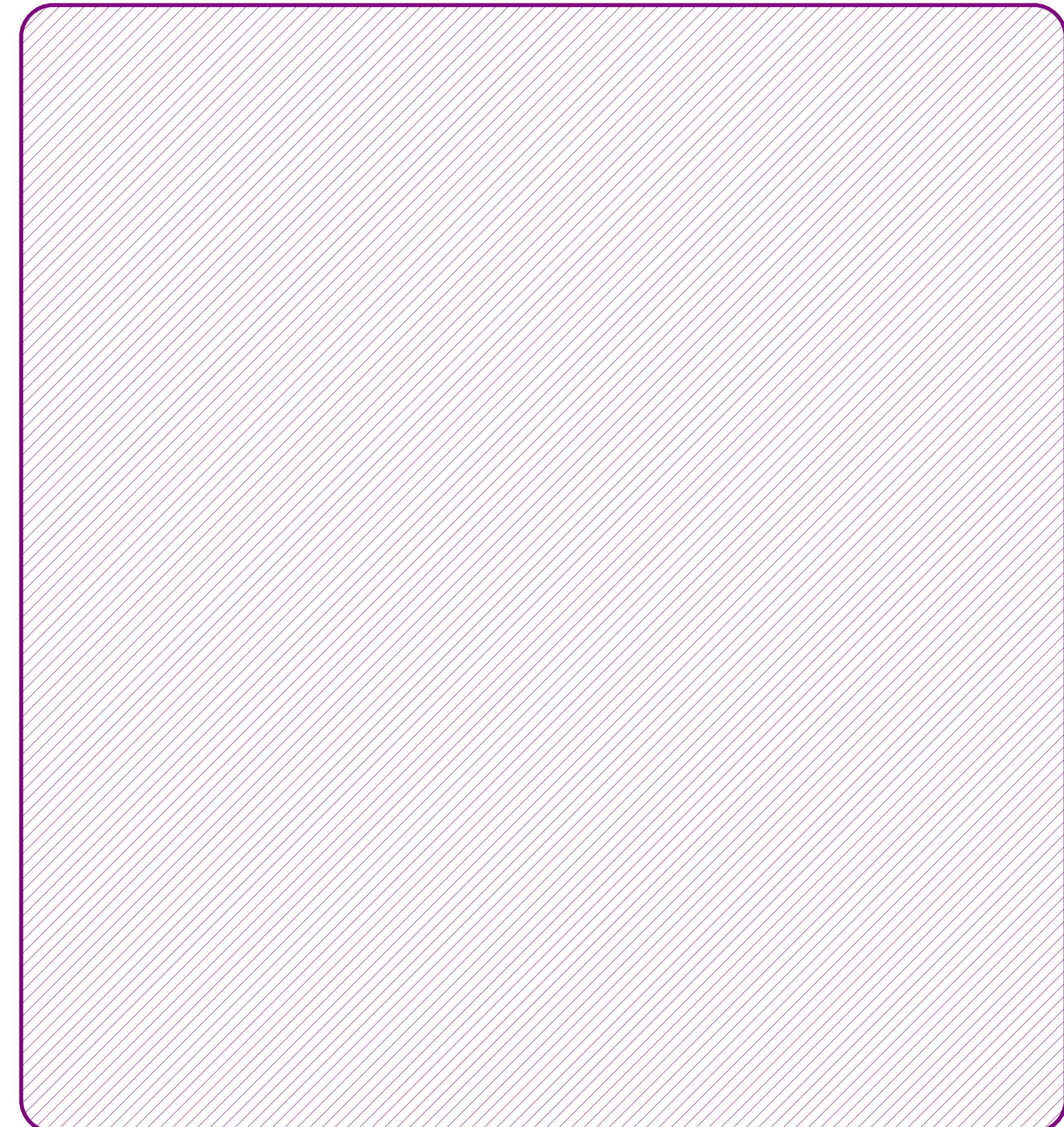
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
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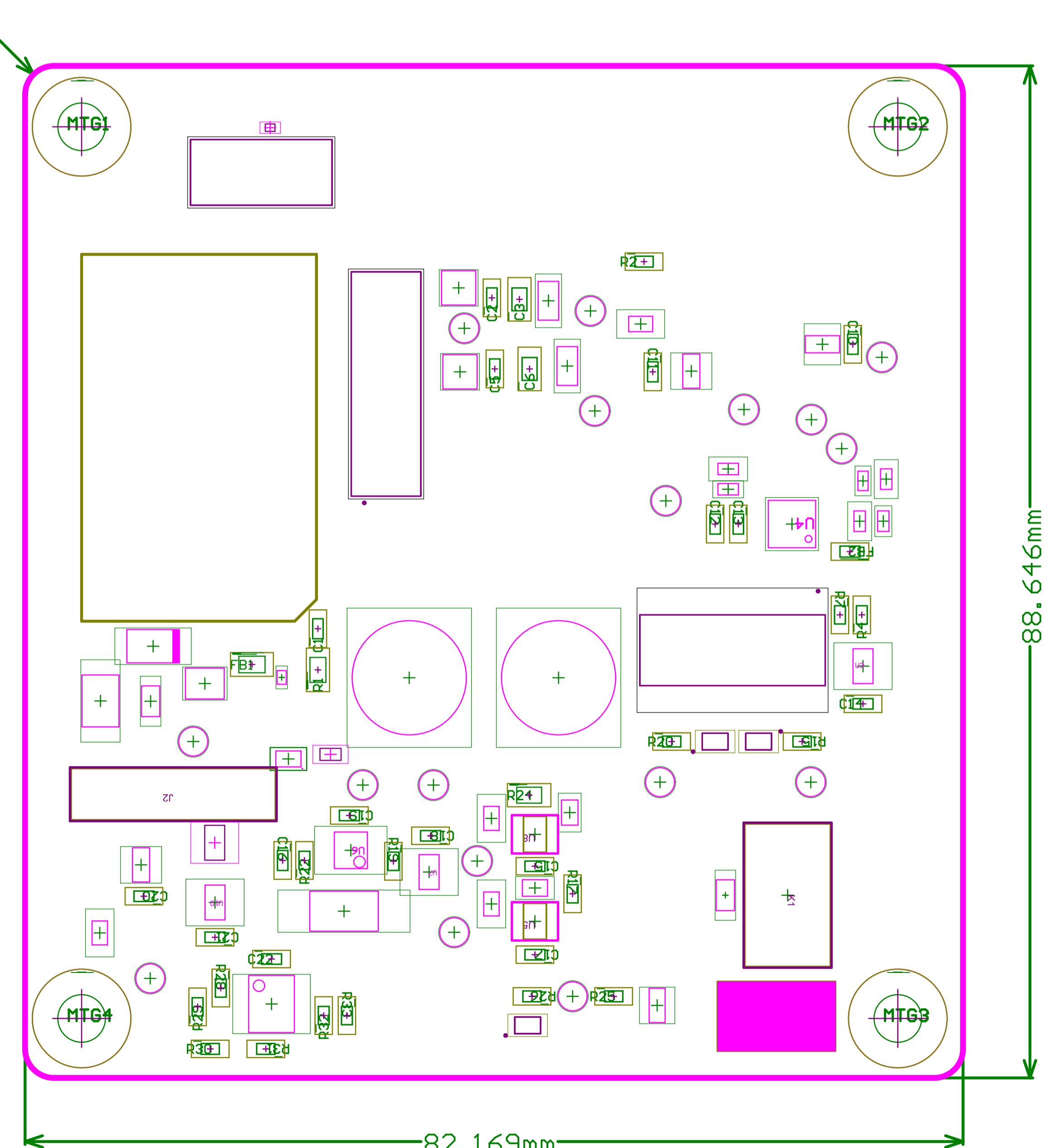
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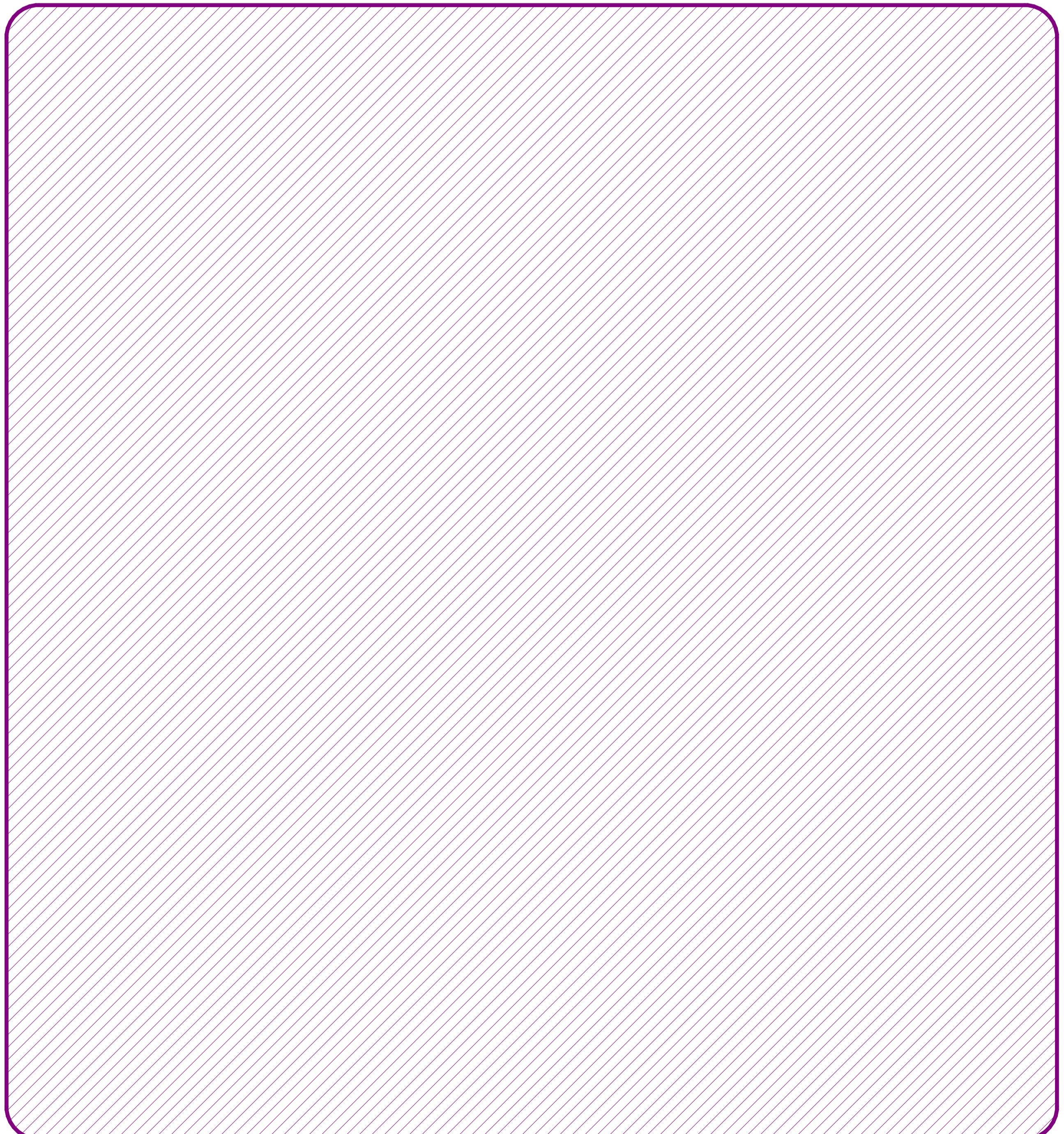
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	Top Solder	SM-001	1.00mil	4	GTS	
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	Bottom Overlay				GBO	

Total board thickness: 62.80mil



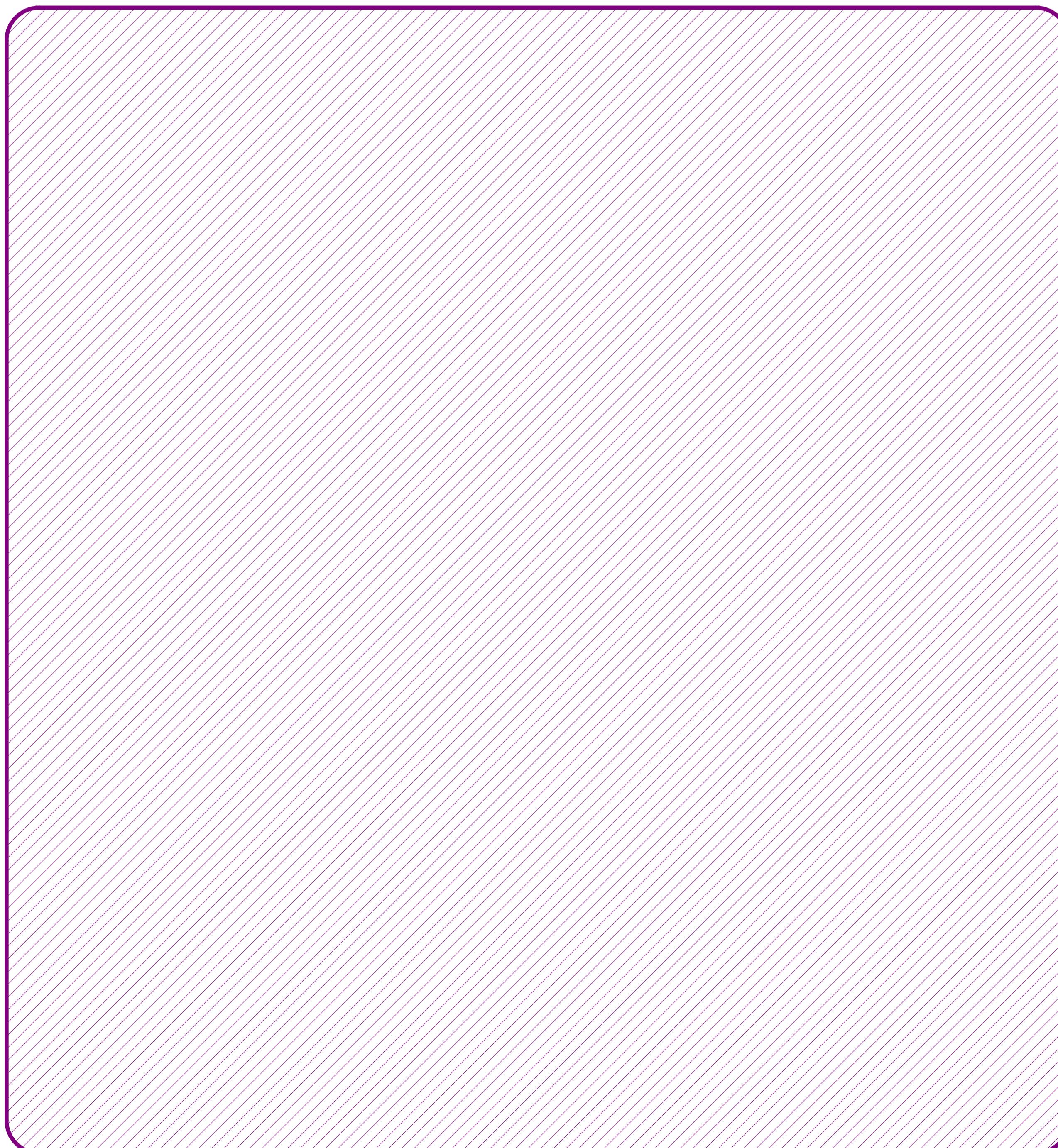
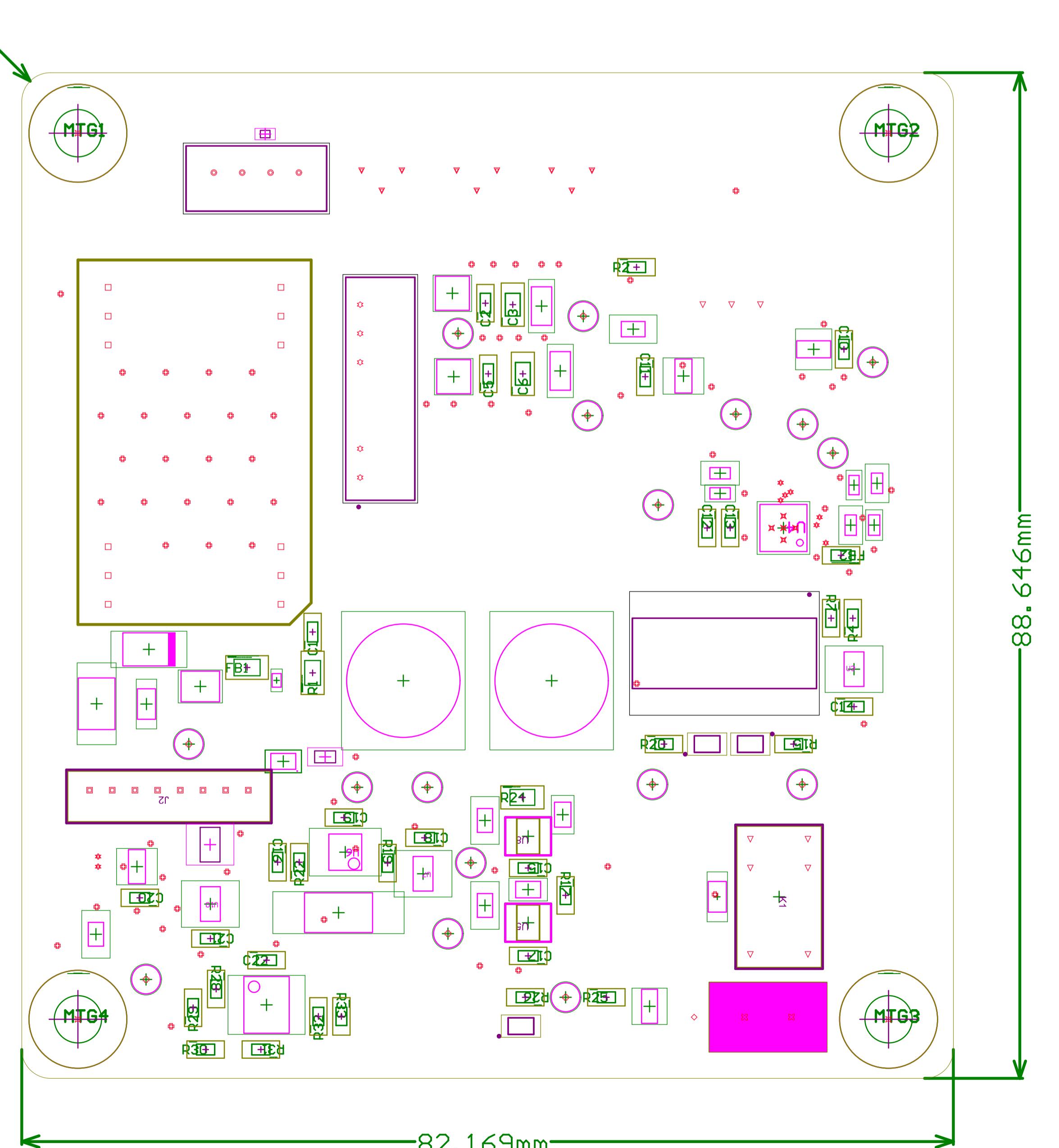
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Size:	Letter	Number:	aakatz3@gmail.com
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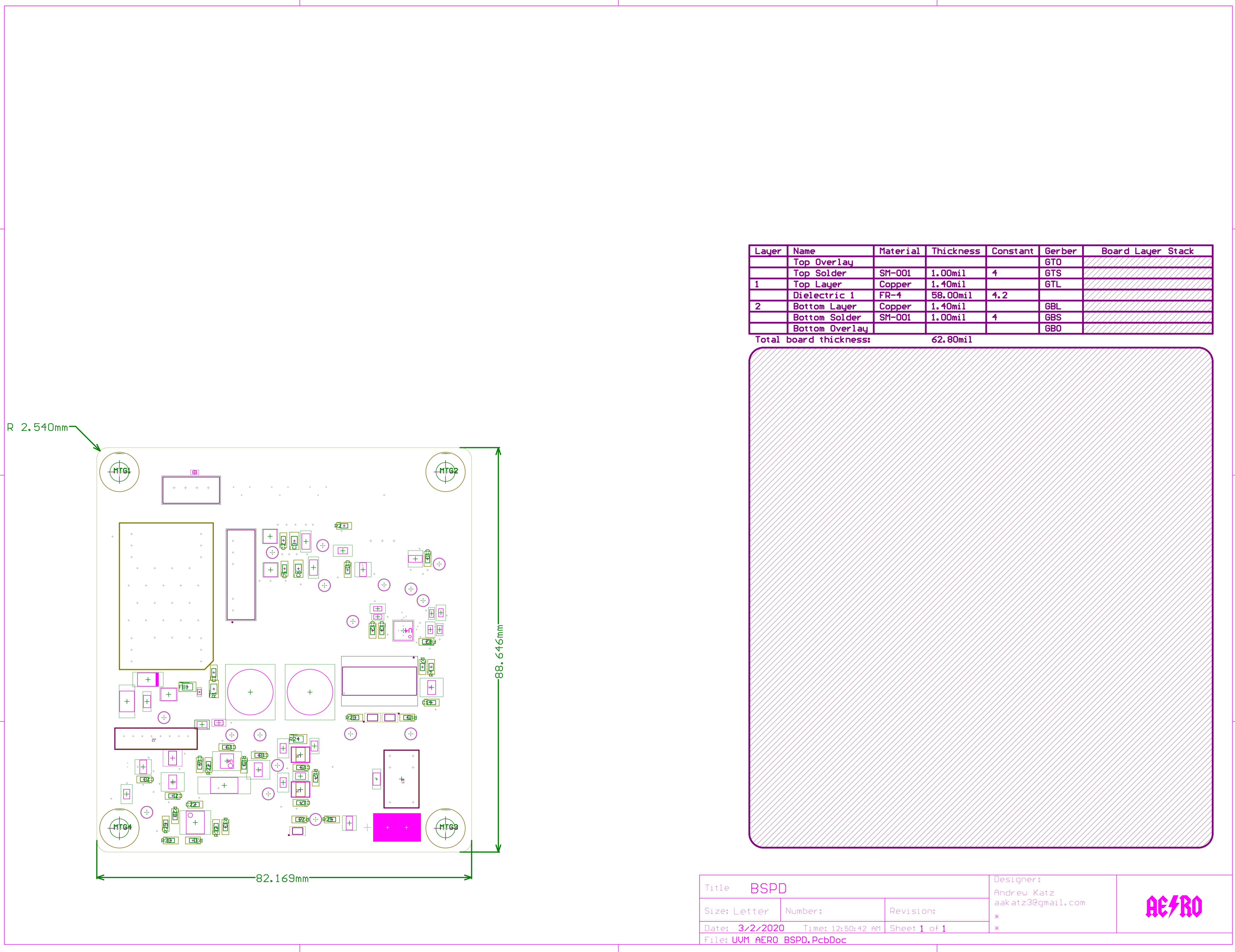
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Symbol	Count	Hole Size	Plated	Hole Type	Via/Pad	Pad Shape	Template
◇	1	125.00mil (3.175mm)	NPTH	Round	Pad	Rounded	c318hn318m0mx0
☒	2	55.00mil (1.397mm)	PTH	Round	Pad	(Mixed)	(Mixed)
○	4	41.73mil (1.060mm)	PTH	Round	Pad	(Mixed)	(Mixed)
☒	4	142.00mil (3.607mm)	PTH	Round	Pad	Rounded	c762h361
☒	5	7.87mil (0.200mm)	PTH	Round	Via	Rounded	v50h20
☒	5	32.28mil (0.820mm)	PTH	Round	Pad	(Mixed)	(Mixed)
□	8	27.56mil (0.700mm)	PTH	Round	Pad	(Mixed)	(Mixed)
☒	9	9.00mil (0.229mm)	PTH	Round	(Mixed)	(Mixed)	(Mixed)
▽	9	20.00mil (0.508mm)	PTH	Round	Pad	Rounded	c102h51p25502
▽	9	39.37mil (1.000mm)	PTH	Round	Pad	(Mixed)	(Mixed)
□	12	30.00mil (0.762mm)	PTH	Round	Pad	(Mixed)	(Mixed)
✚	17	40.00mil (1.016mm)	PTH	Round	Pad	Rounded	c155h102
☒	79	15.00mil (0.381mm)	PTH	Round	Via	Rounded	v76h38
164 Total							

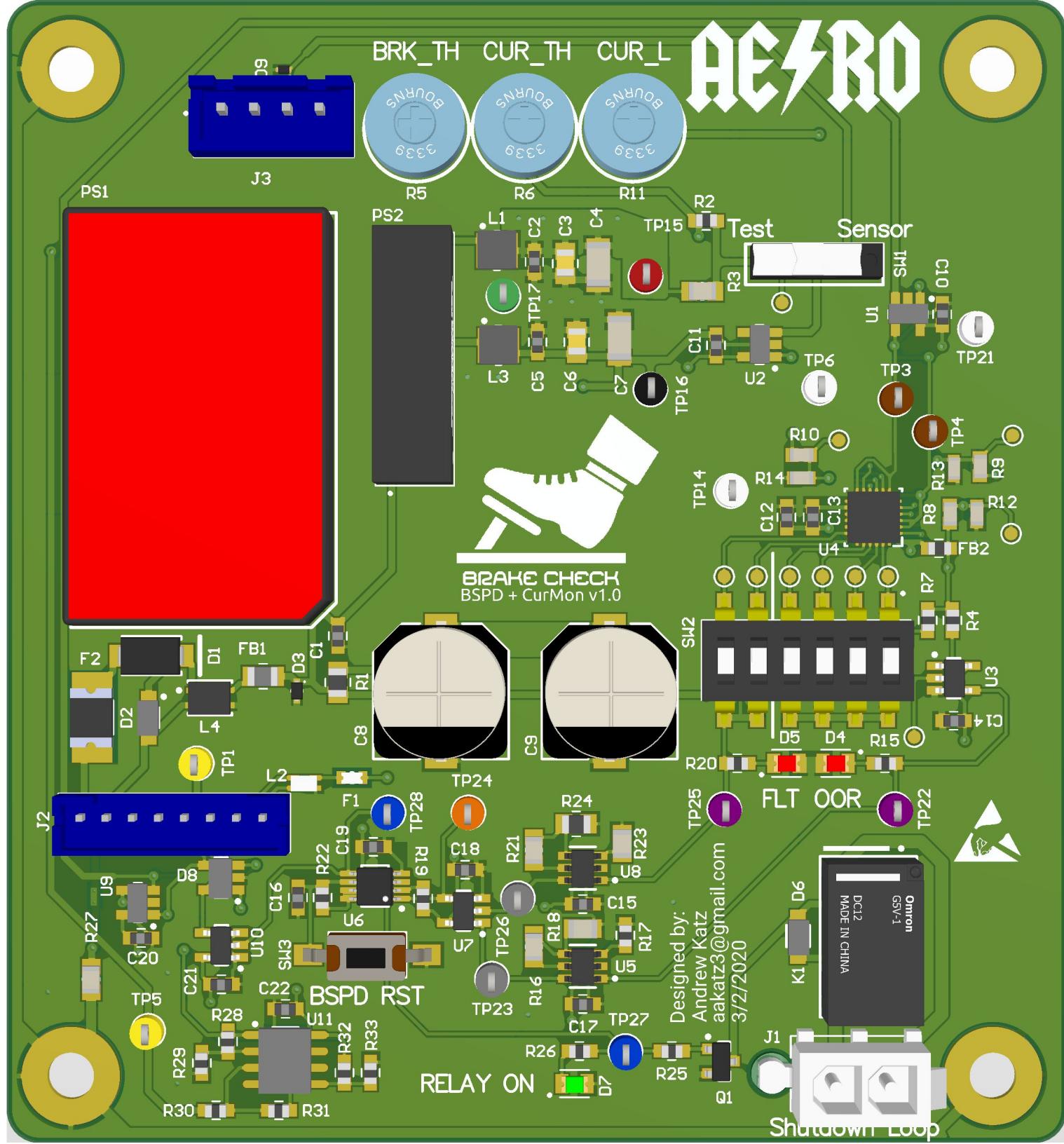
Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
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	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

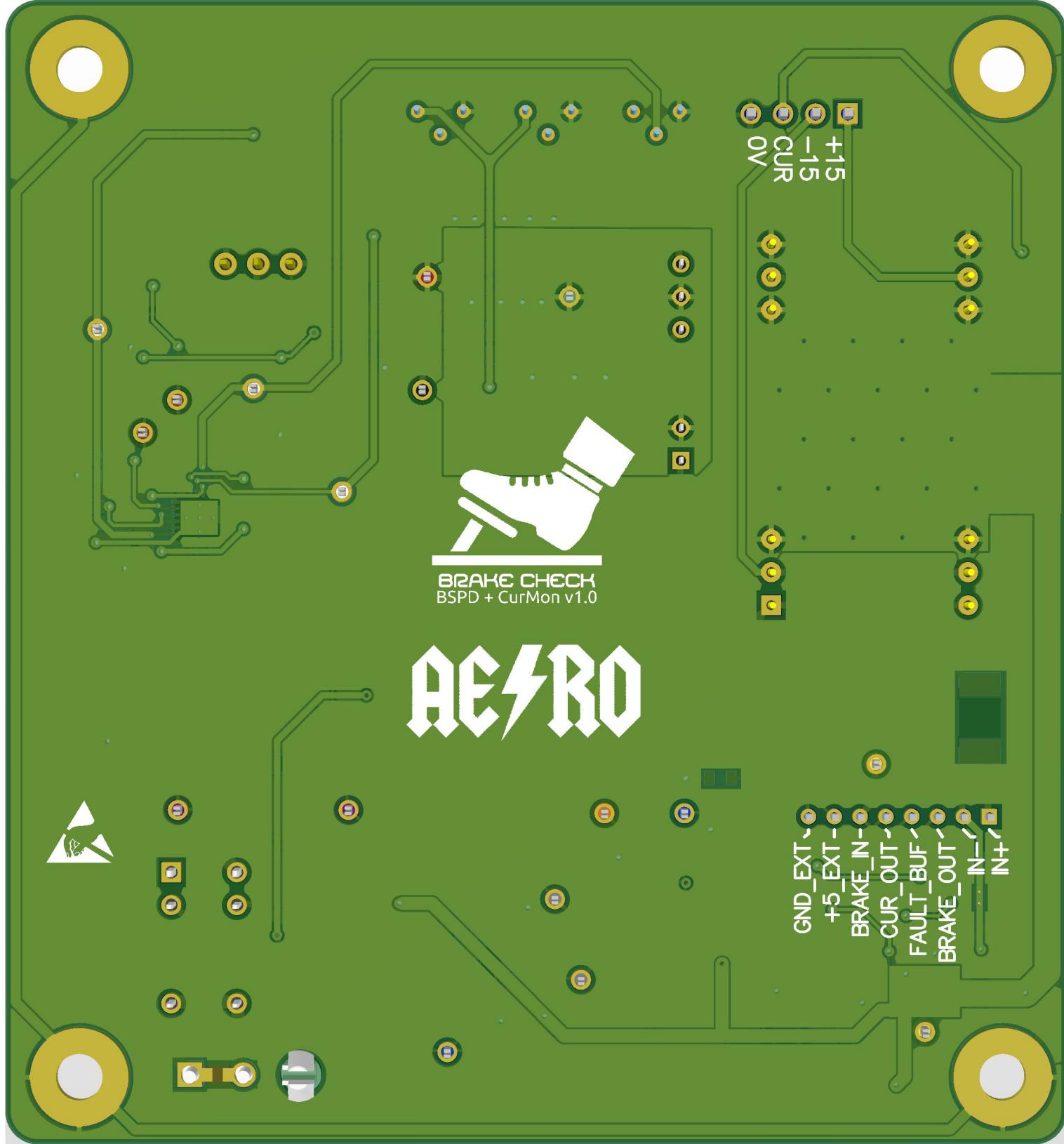
Total board thickness: 62.80mil











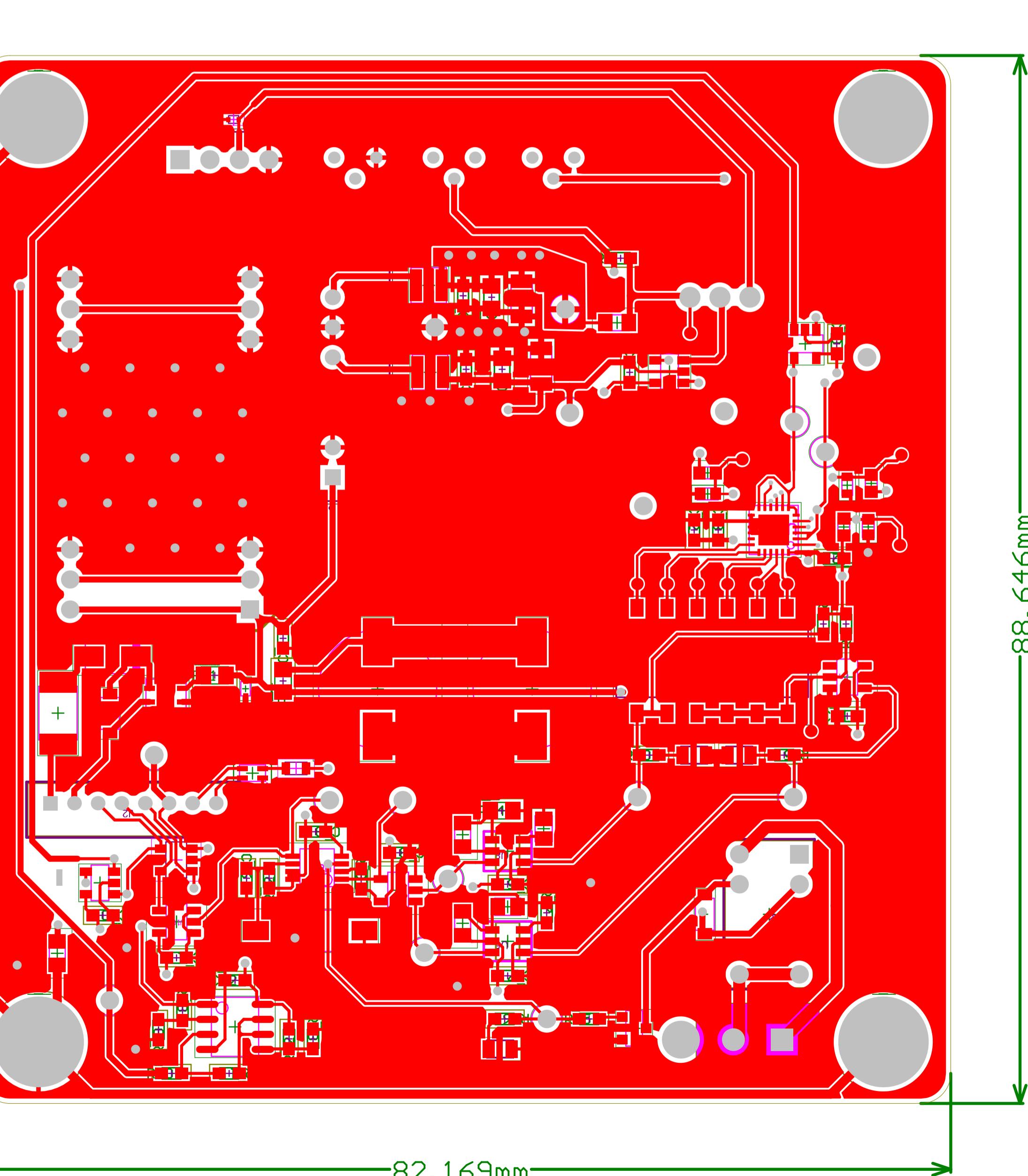
Line #	Name	Designator	Quantity	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
	Ferrite Chip 1000 Ohms	FB1	1				
	UUUD1V331MNL1GS	C8, C9	2	Nichicon	UUUD1V331MNL1GS	Digi-Key	493-2293-1-ND
1	1-770872-0	J1	1	TE Connectivity	1-770872-0	Digi-Key	A32449-ND
2	1N4148W-TP	D6	1	MCC	1N4148W-TP	Mouser	833-1N4148W-TP
4	2N7002-7-F	Q1	1	Diodes	2N7002-7-F	Mouser	621-2N7002-F
5	1812L050/30PR	F2	1	Littelfuse	1812L050/30PR	Mouser	576-1812L050/30PR
6	3339H-1-103LF	R5, R6, R11	3	Bourns	3339H-1-103LF	Digi-Key	3339H-103LF-ND
7	5000	TP15	1	Keystone Electronics	5000	Digi-Key	36-5000-ND
8	5001	TP16	1	Keystone Electronics	5001	Digi-Key	36-5001-ND
9	5002	TP6, TP14, TP21	3	Permbond	5002	Digi-Key	36-5002-ND
10	5003	TP24	1	Keystone Electronics	5003	Digi-Key	36-5003-ND
11	5004	TP1, TP5	2	Keystone Electronics	5004	Digi-Key	36-5004-ND
12	5115	TP3, TP4	2	Keystone Electronics	5115	Digi-Key	36-5115-ND
13	5116	TP17	1	Keystone Electronics	5116	Digi-Key	36-5116-ND
14	5117	TP27, TP28	2	Keystone Electronics	5117	Digi-Key	36-5117-ND
15	5118	TP23, TP26	2	Keystone Electronics	5118	Digi-Key	36-5118-ND
16	5119	TP22, TP25	2	Keystone Electronics	5119	Digi-Key	36-5119-ND
21	744231261	L2	1	Wurth Electronics	744231261	Digi-Key	732-1467-6-ND
23	ACP3225-102-2P-T000	L4	1	TDK	ACP3225-102-2P-T000	Mouser	810-ACP32251022PT000
24	B4B-XH-A(LF)(SN)	J3	1	JST	B4B-XH-AM(LF)(SN)	Digi-Key	455-2237-ND
25	BBB-PH-K-S(LF)(SN)	J2	1	JST	BBB-PH-K-S(LF)(SN)	Digi-Key	455-1710-ND
26	B340A-13-F	D1	1	Diodes	B340A-13-F	Digi-Key	B340A-FDIDKR-ND
27	CAP 47uF 10V 1206(3216)	C4, C7	2	KEMET	C1206C476M8PACTU	Digi-Key	399-5508-1-ND
28	CAP 0603 0.1uF 16V 10% X7R	C10, C11, C12, C14, C18, C19, C20, C21, C22	9	Kyocera AVX	0603YC104KAT2A	Mouser	581-060316C104K
29	CAP 0603 1PF 50V 0.05PF MLO	C16	1	Kyocera AVX	ML03511R0BAT2A	Mouser	581-ML03511R0BAT2A
30	CAP 0603 1uF 50V 10% X7R	C2, C5	2	TDK	C1608X5R1H105K080AB	Digi-Key	445-7468-6-ND
31	CAP 0603 10uF 25V 20% X5R	C1, C13, C15, C17	4	Murata	GRM188R61E106MA73J	Mouser	81-GRM188R61E106MA3J
32	CAP 0805 4.7uF 35V 10% X7R	C3, C6	2	TDK	C2012X7R1V475K125AC	Mouser	810-C2012X7R1V475KAC
33	CL-SA-12C-02	SW1	1	Nidec Copal	CL-SA-12C-02	Digi-Key	563-1388-ND
34	DF2B6.8AFS	D9	1	Toshiba	DF2B6.8AFS,L3M	Digi-Key	DF2B6.8AFSL3MCT-ND
35	DS04-254-2-06BK-SMT-TR	SW2	1	CUI Devices	DS04-254-2-06BK-SMT-TR	Mouser	490-DS04254206BK-STR
36	ERA6AE6813V	R18, R23	2	Panasonic	ERA-6AE6813V	Digi-Key	P681KDADKR-ND
37	ESD5Z12T1G	D3	1	ON Semiconductor	ESD5Z12T1G	Digi-Key	ESD5Z12T1GOSCT-ND
38	Ferrite Chip 120 Ohms	FB2	1	TDK	MMZ1608S121ATA00	Digi-Key	445-2173-6-ND
40	FSMSMTR	SW3	1	TE Connectivity	FSMSMTR	Digi-Key	450-1758-1-ND
41	G5V-1-DC12	K1	1	Omron	G5V-1-DC12	Mouser	653-G5V-1-DC12
42	LMV7231SQE/NO PB	U4	1	TI National Semiconductor	LMV7231SQE/NOPBCT-ND	Digi-Key	LMV7231SQE/NOPBCT-ND
43	LTC6994CS6-1#TRMPBF	U5, U8	2	Analog Devices / Linear Technology	LTC6994CS6-1#TRMPBF	Digi-Key	LTC6994CS6-1#TRMPBFCT-ND
44	MCP6002T-I/SN	U11	1	Microchip	MCP6002T-I/SN	Digi-Key	MCP6002T-I/SNDKR-ND
45	MF-FSMF010X-2	F1	1	Bourns	MF-FSMF010X-2	Digi-Key	MF-FSMF010X-2CT-ND
46	NCS2003SN2T1G	U1, U2, U9	3	ON Semiconductor	NCS2003SN2T1G	Digi-Key	NCS2003SN2T1GOSDKR-ND
47	NMK1205SC	PS2	1	Murata	NMK1205SC	Digi-Key	811-3393-5-ND
49	RES 0603 10K 1%	R4, R7	2	Yageo	RC0603FR-0710KL	Mouser	603-RC0603FR-0710KL
50	RES 0603 47K 1%	R22	1	Panasonic	ERJ3EKF4702V	Digi-Key	P47.0KHDKR-ND
51	RES 0603 49.9K 0.1%	R17	1	Panasonic	ERA-3AEB4992V	Digi-Key	P49.9KDBDKR-ND
52	RES 0603 62.6K 0.1%	R28, R31	2	Vishay	TNPW06362K6BEEN	Mouser	71-TNPW06362K6BEEN
53	RES 0603 100K 0.1%	R29, R30, R32, R33	4	Panasonic	ERA-3AEB104V	Digi-Key	P100KDBDKR-ND
54	RES 0603 200 1%	R19, R25	2	Panasonic	ERJ-3EKF2000V	Mouser	667-ERJ-3EKF2000V
55	RES 0603 330K 1%	R2	1	Panasonic	ERJ-3EKF3303V	Mouser	667-ERJ-3EKF3303V
56	RES 0603 620 1%	R15, R20, R26	3	Yageo	RC0603FR-07620RL	Digi-Key	311-620HRDKR-ND
57	RES 0805 2 1%	R1	1	Panasonic	ERJ-6ENF2001V	Mouser	667-ERJ-6ENF2001V
58	RES 0805 523K 0.1%	R24	1	Panasonic	ERJPB6B523V	Digi-Key	P20904DKR-ND
59	RR0816P-183-D	R9	1	Susumu	RR0816P-183-D	Digi-Key	RR0816P-18.0KDC-ND
60	RR0816P-272-D	R12, R14	2	Susumu	RR0816P-272-D	Digi-Key	RR08P2.7KDC-ND
61	RR0816P-301-D	R8, R10	2	Susumu	RR0816P-301-D	Digi-Key	RR08P300DCT-ND
62	RT0603DRE072KL	R13	1	Yageo	RT0603DRE072KL	Digi-Key	311-2525-1-ND
63	RT0805BRE071ML	R3, R16, R21, R27	4	Yageo	RT0805BRE071ML	Digi-Key	YAG4967DKR-ND
64	SM0805GCL	D7	1	Bivar	SM0805GCL	Digi-Key	492-2525-1-ND
65	SM0805HCL	D4, D5	2	Bivar	SM0805HCL	Digi-Key	492-2281-1-ND
66	SN74AHCT1G32DBVR	U7	1	Texas Instruments	SN74AHCT1G32DBVR	Digi-Key	296-1115-1-ND
67	SN74LV1T125DBVR	U10	1	Texas Instruments	SN74LV1T125DBVR	Digi-Key	296-37172-6-ND
68	SN74LVC1G04DBVR	U3	1	Texas Instruments	SN74LVC1G04DBVR	Digi-Key	296-11599-1-ND
69	SN74LVC2G74DCTR	U6	1	Texas Instruments	SN74LVC2G74DCTR	Digi-Key	296-13273-1-ND
70	SP0504BAHTG	D8	1	Littelfuse	SP0504BAHTG	Digi-Key	F3157CT-ND
71	SRN3015-220M	L1, L3	2	Bourns	SRN3015-220M	Digi-Key	SRN3015-220MCT-ND
73	SZMMS25243BT1G	D2	1	ON Semiconductor	SZMMS25243BT1G	Digi-Key	SZMMS25243BT1GOSDKR-ND
74	TEL 3-1223	PS1	1	Traco Power	TEL3-1223	Digi-Key	1951-2538-ND

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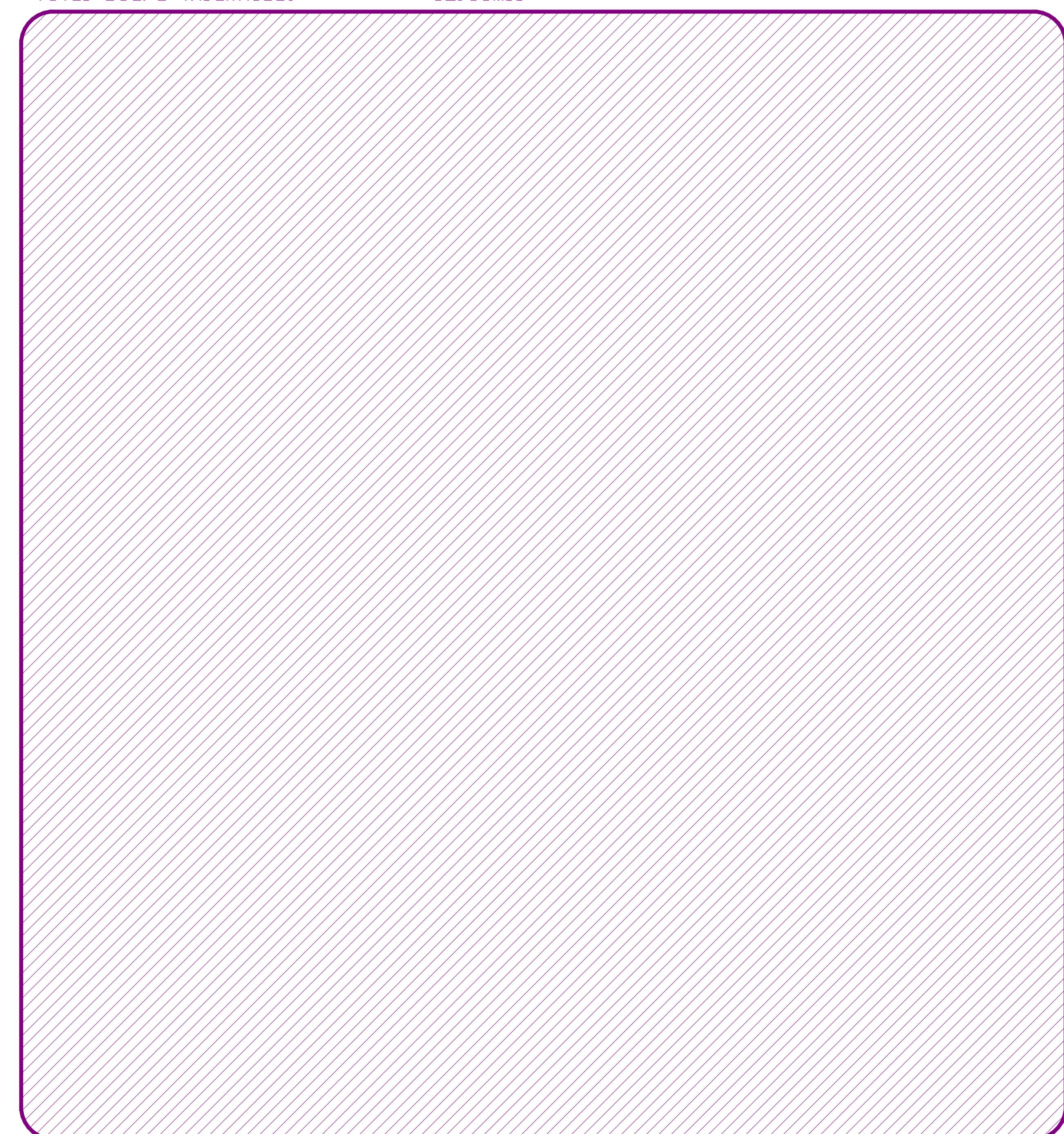
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D



Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
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	Bottom Overlay				GBO	

Total board thickness: 62.80mil



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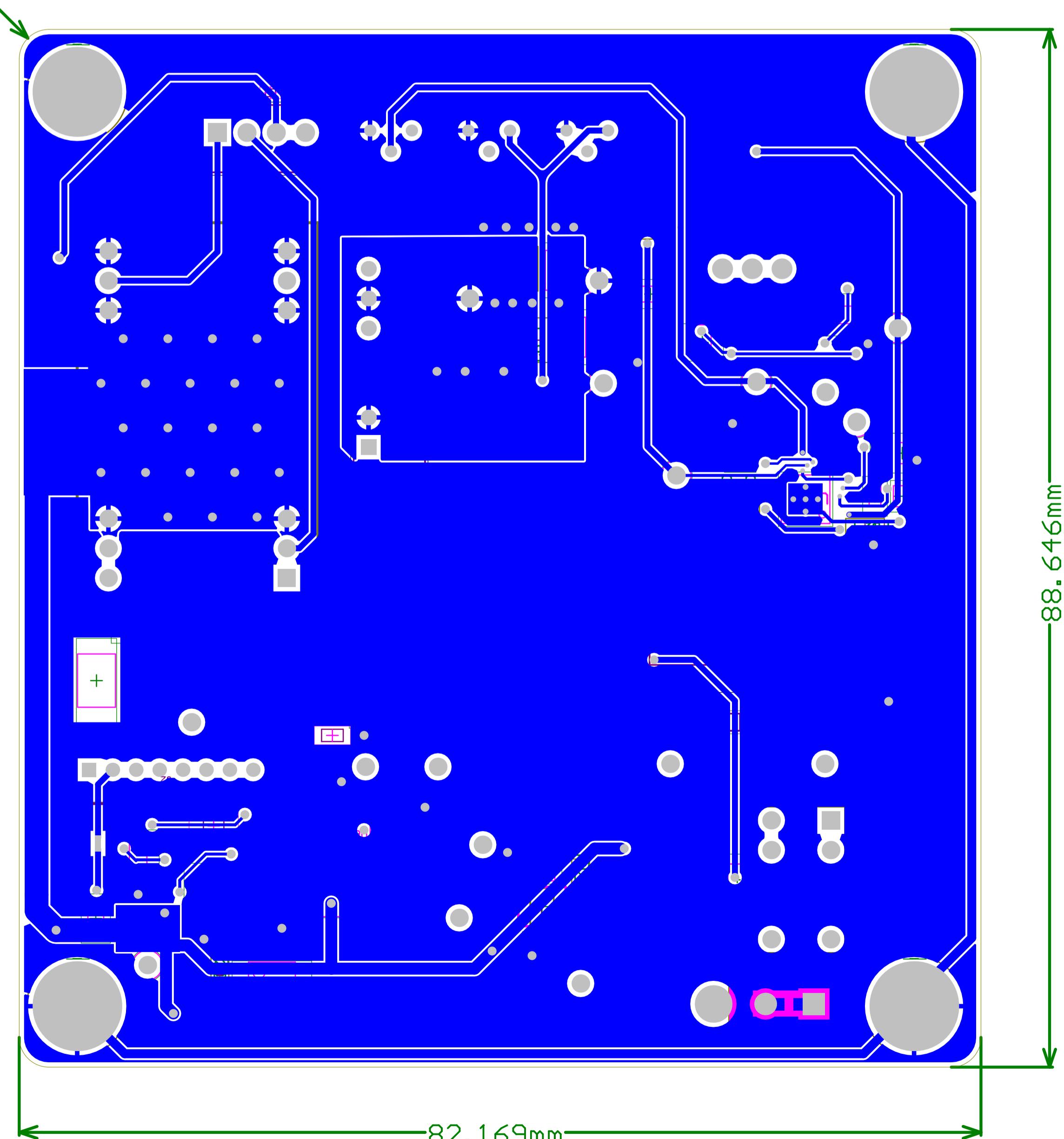
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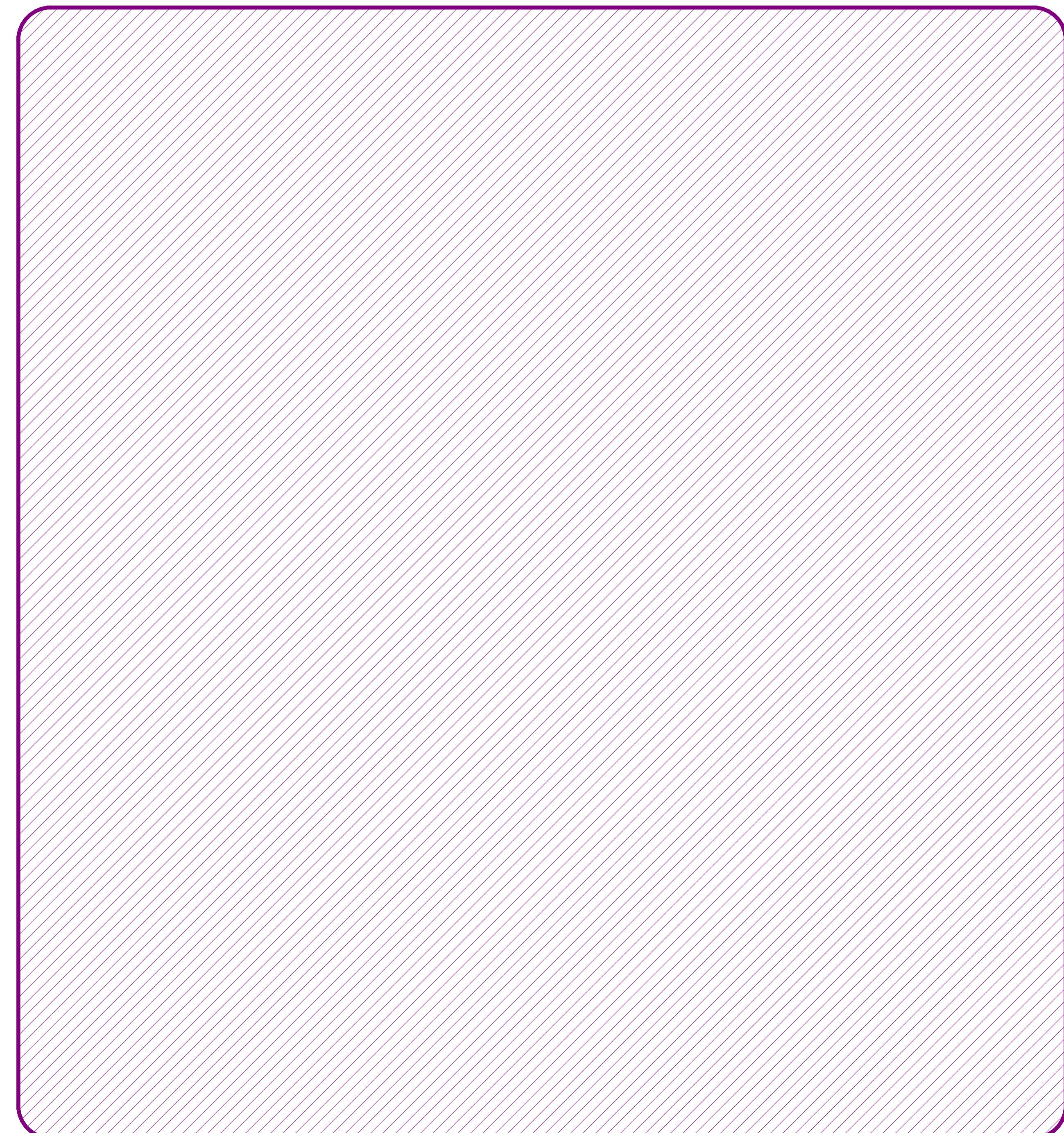
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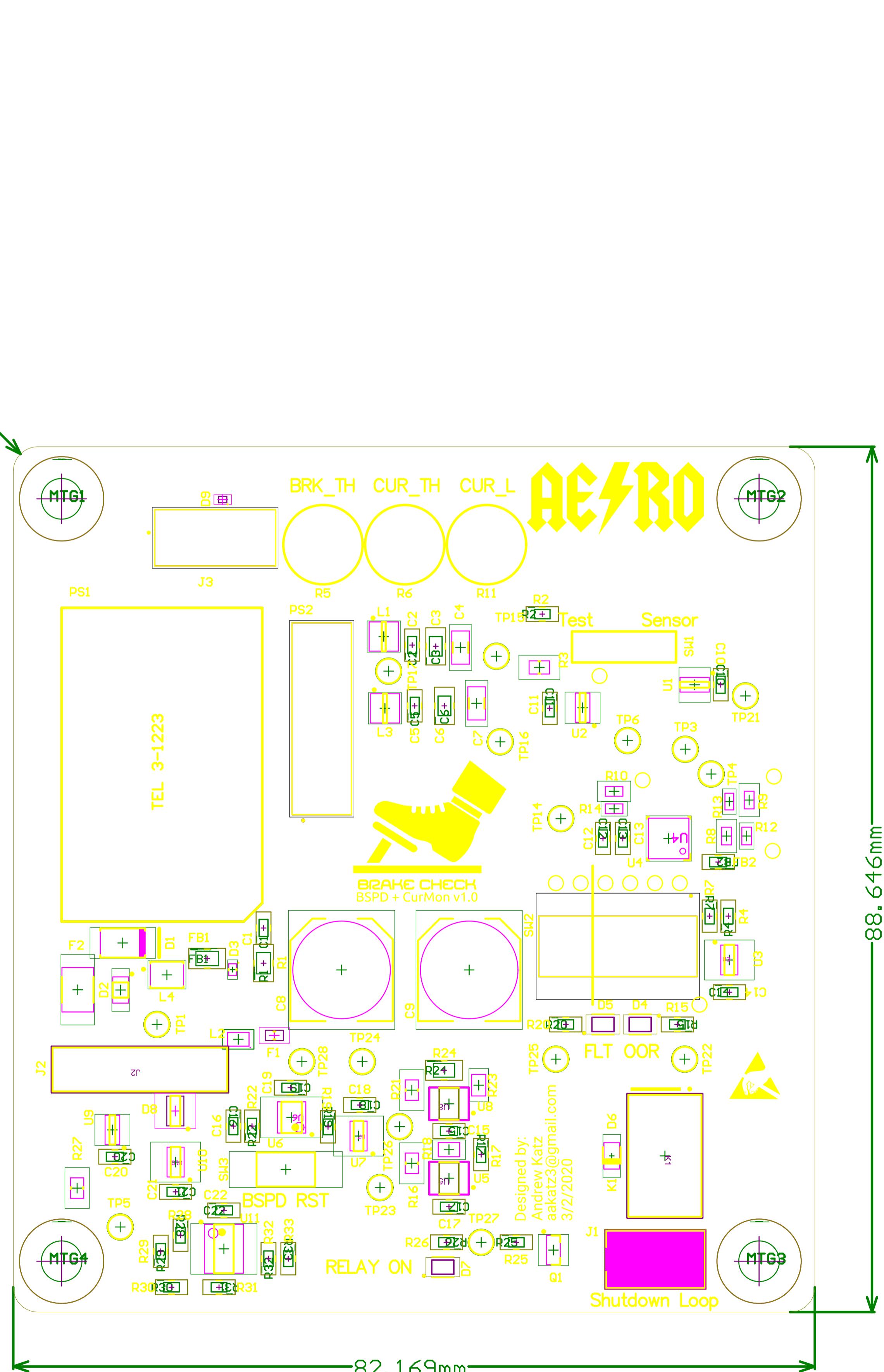
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Total board thickness: 62.80mil

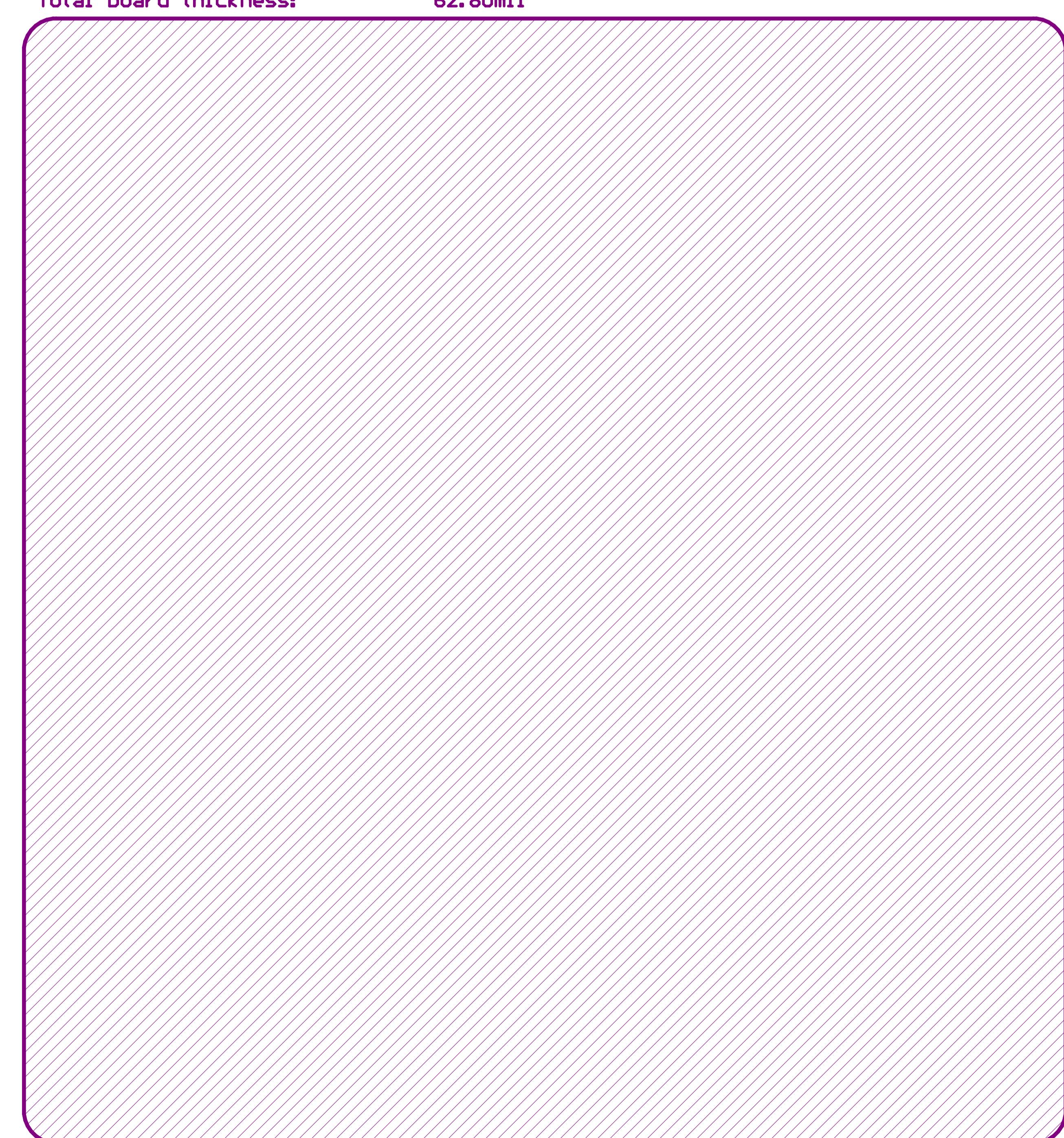


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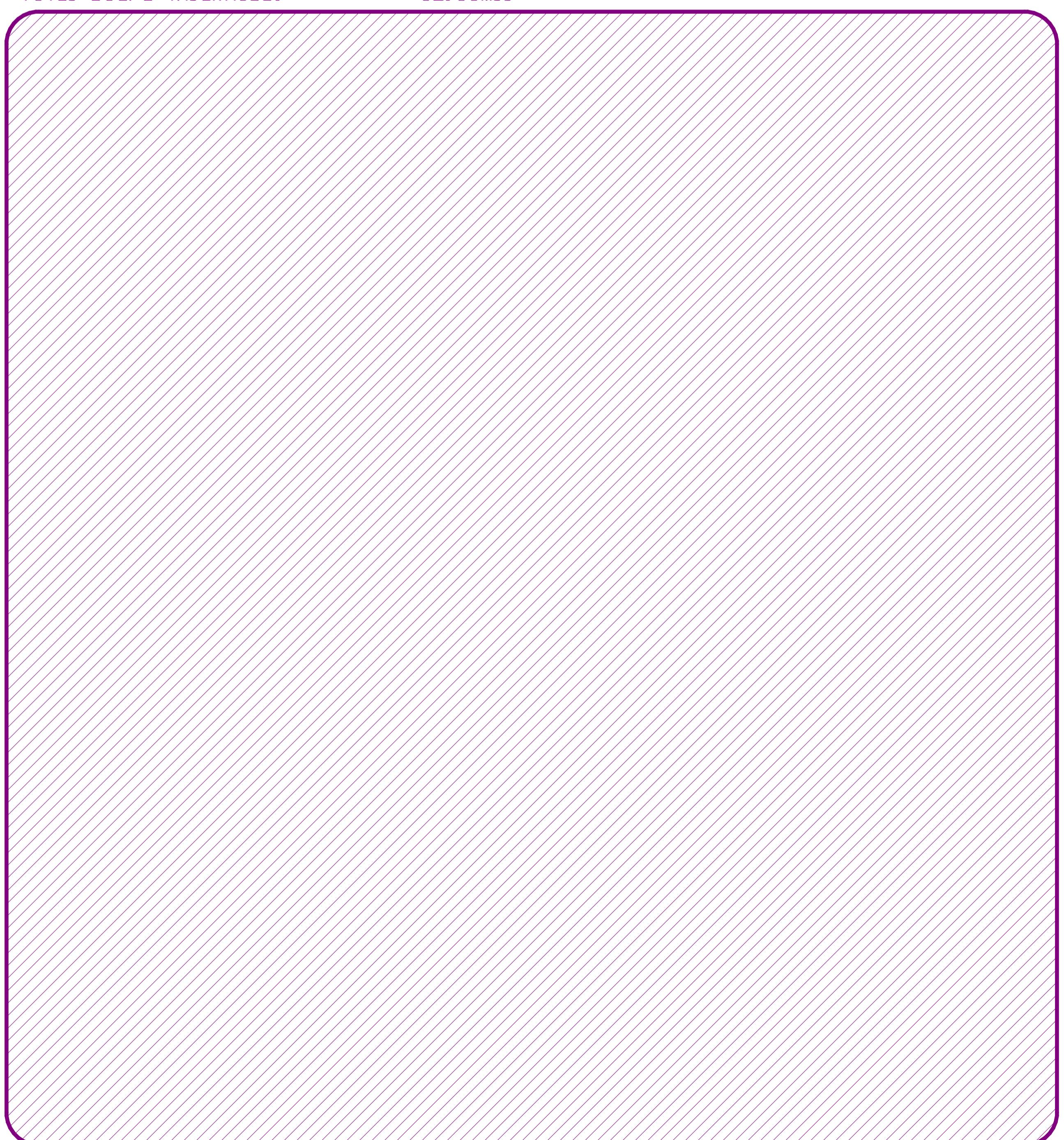
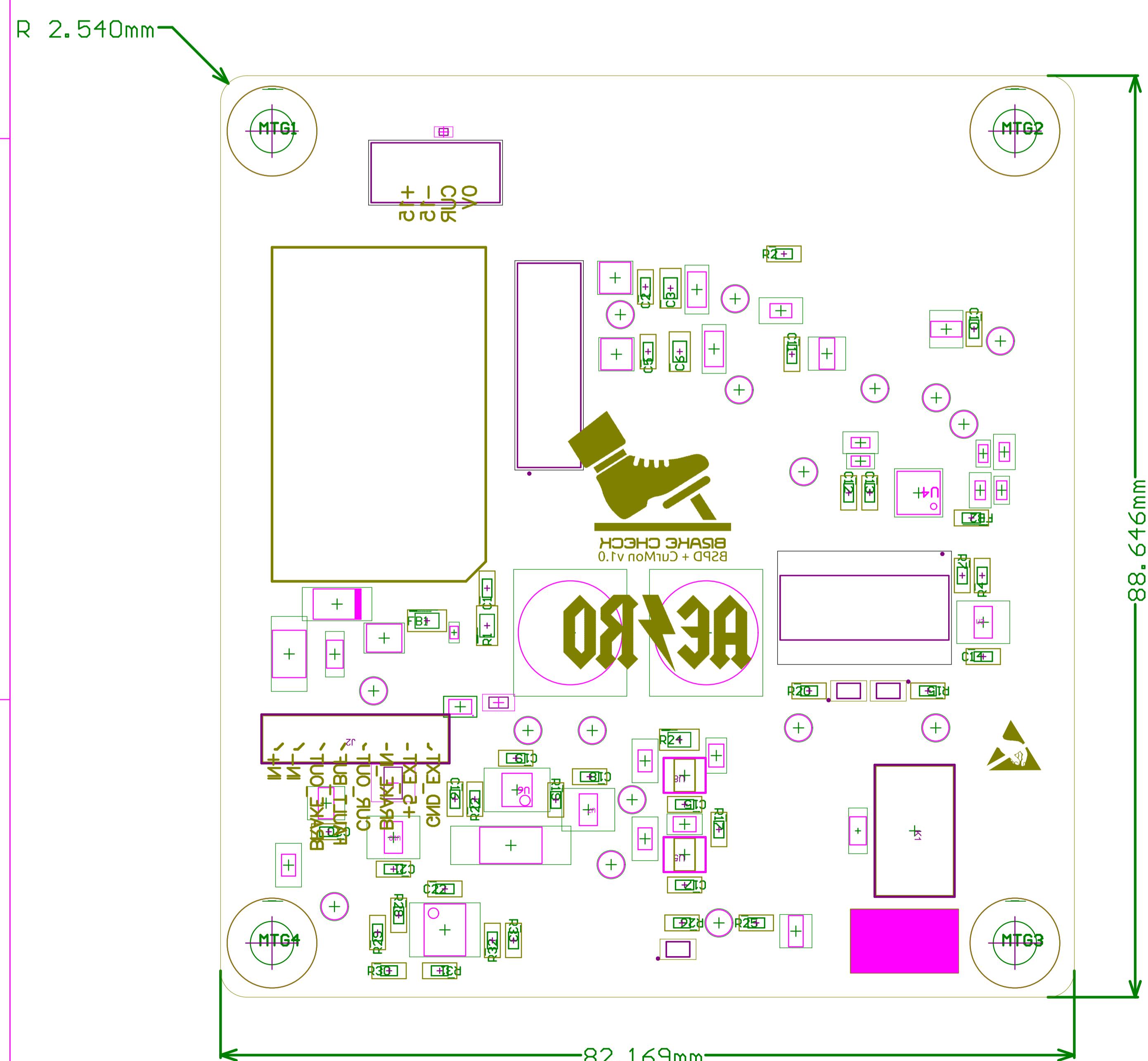
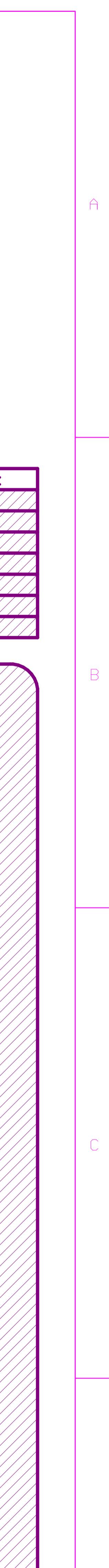
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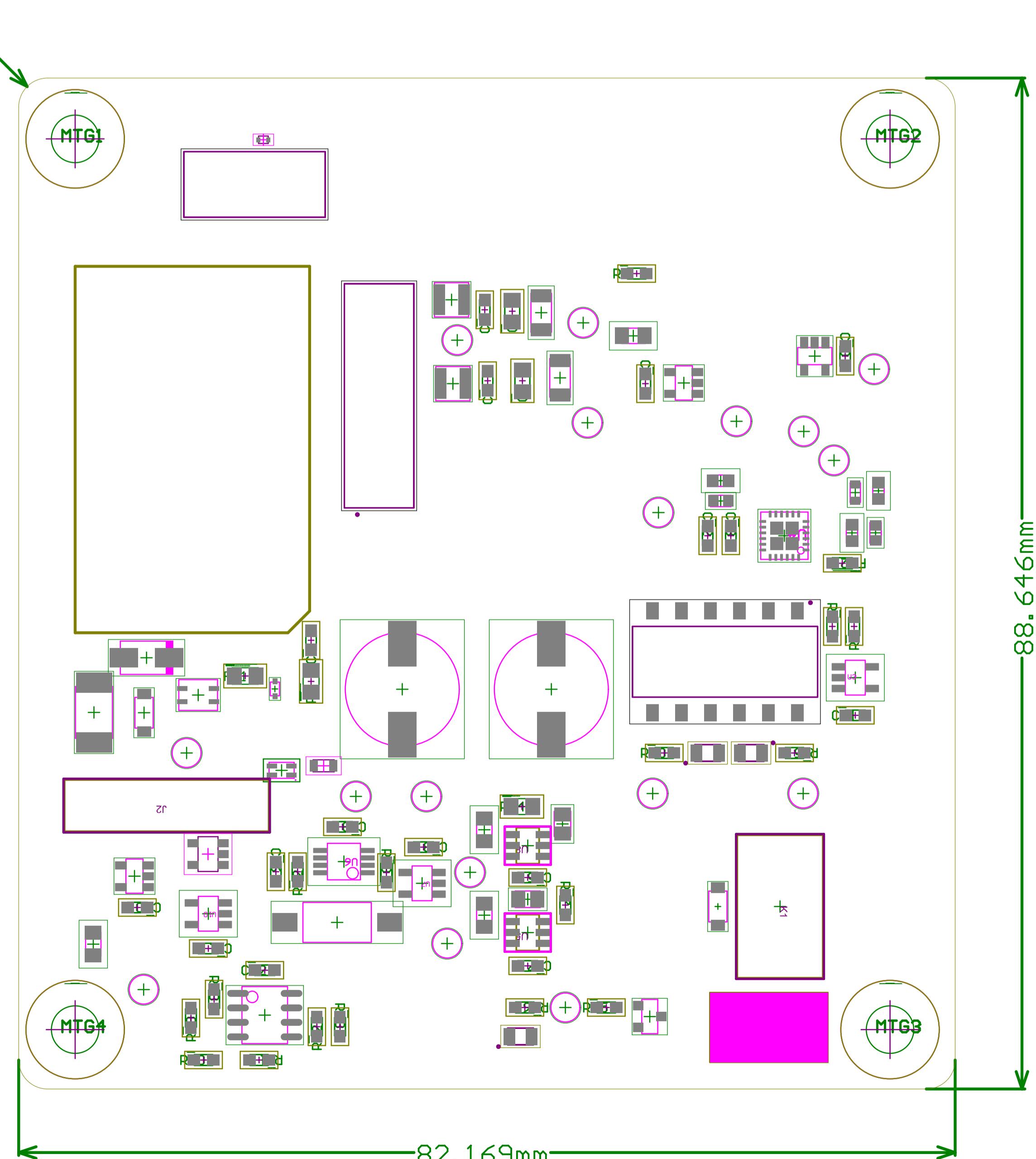
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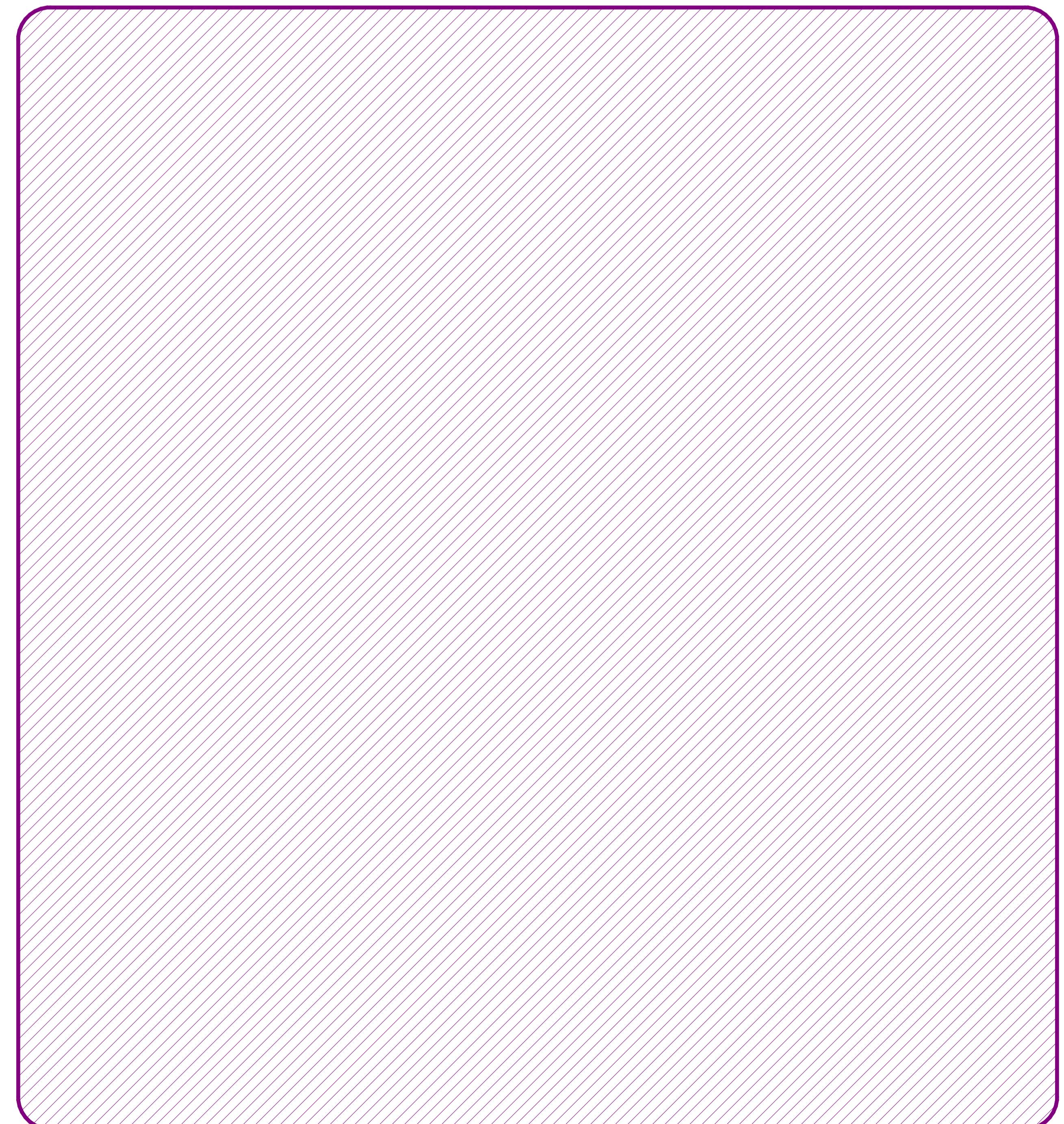
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**AERO**

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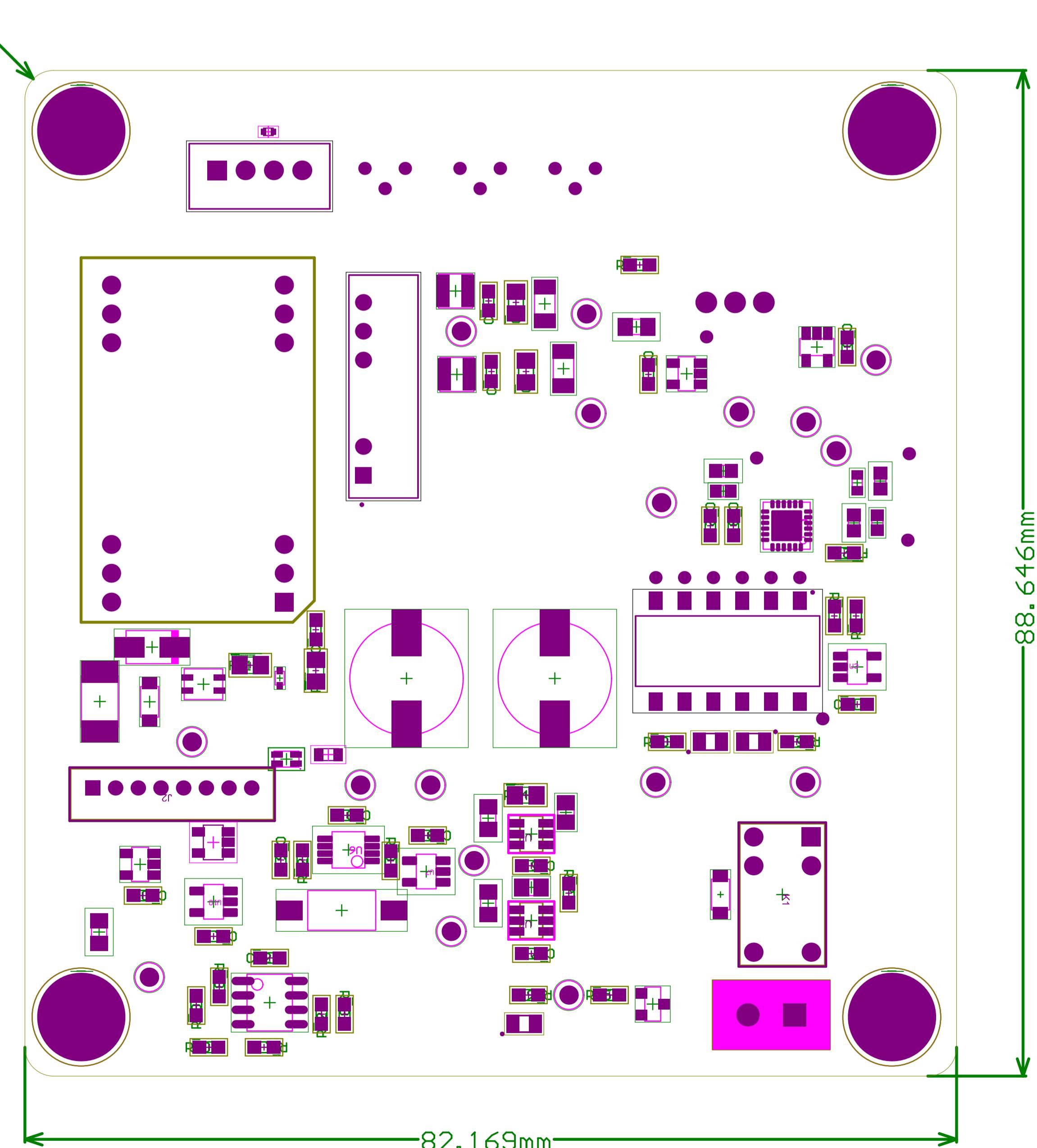
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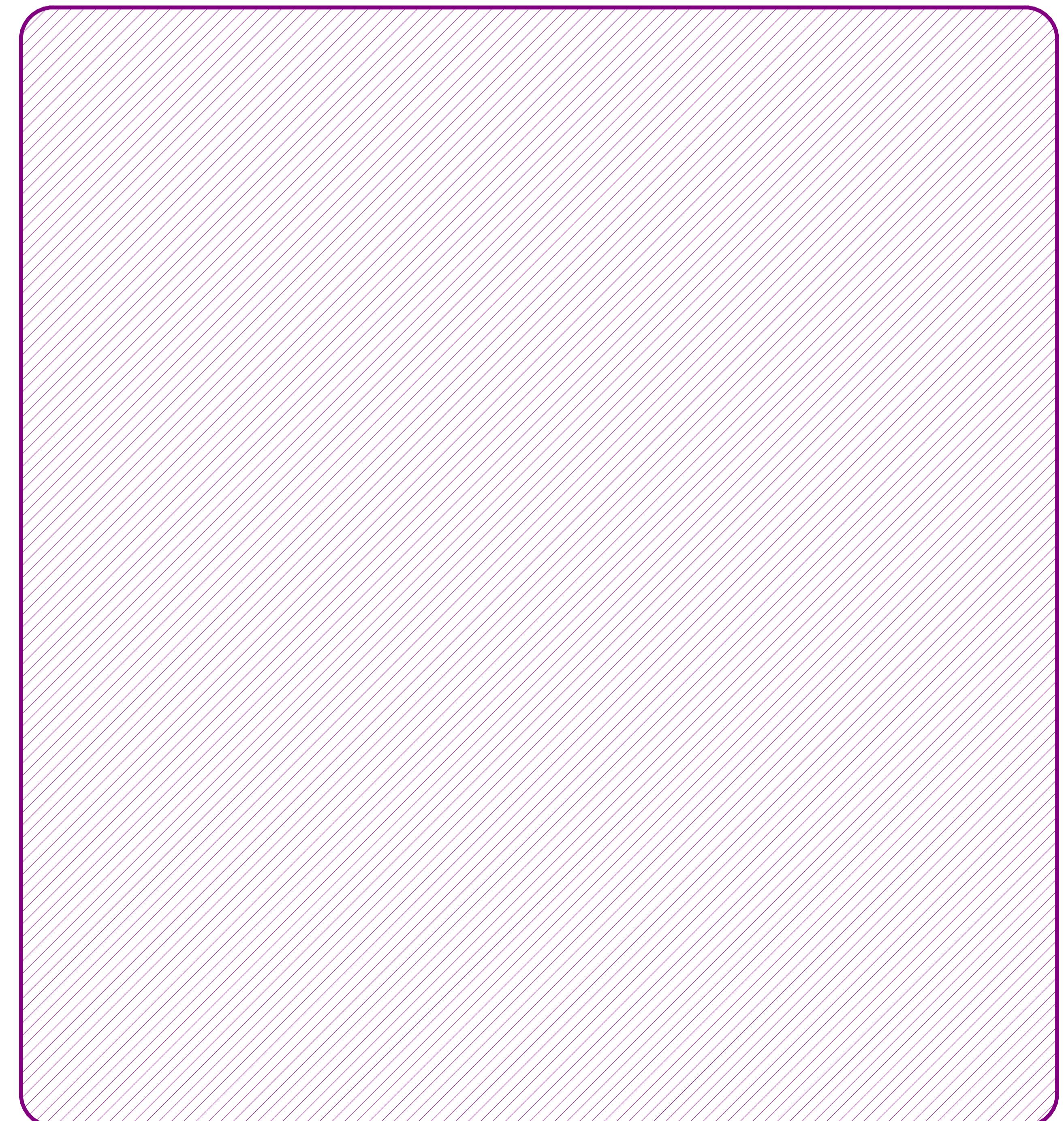
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
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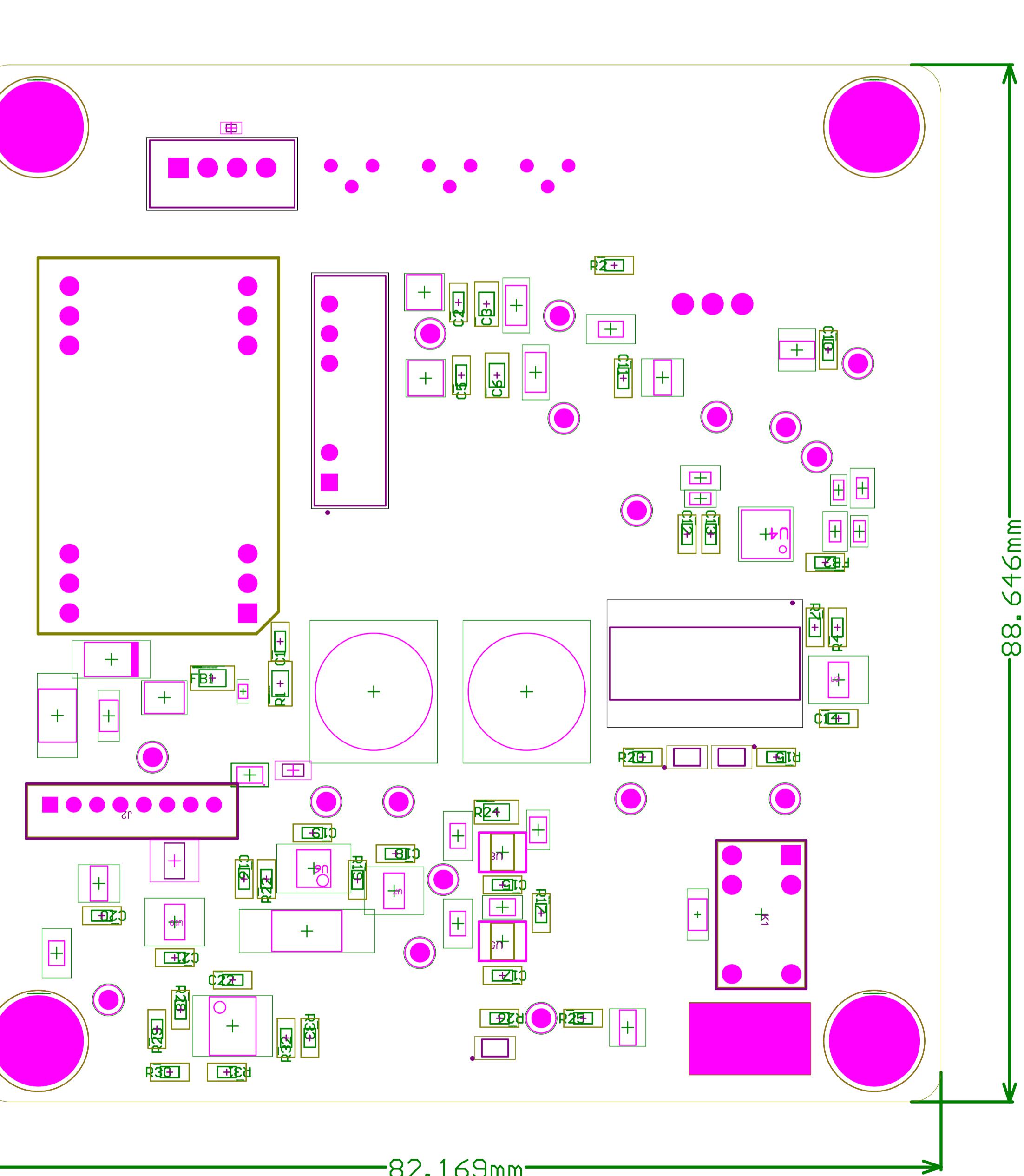
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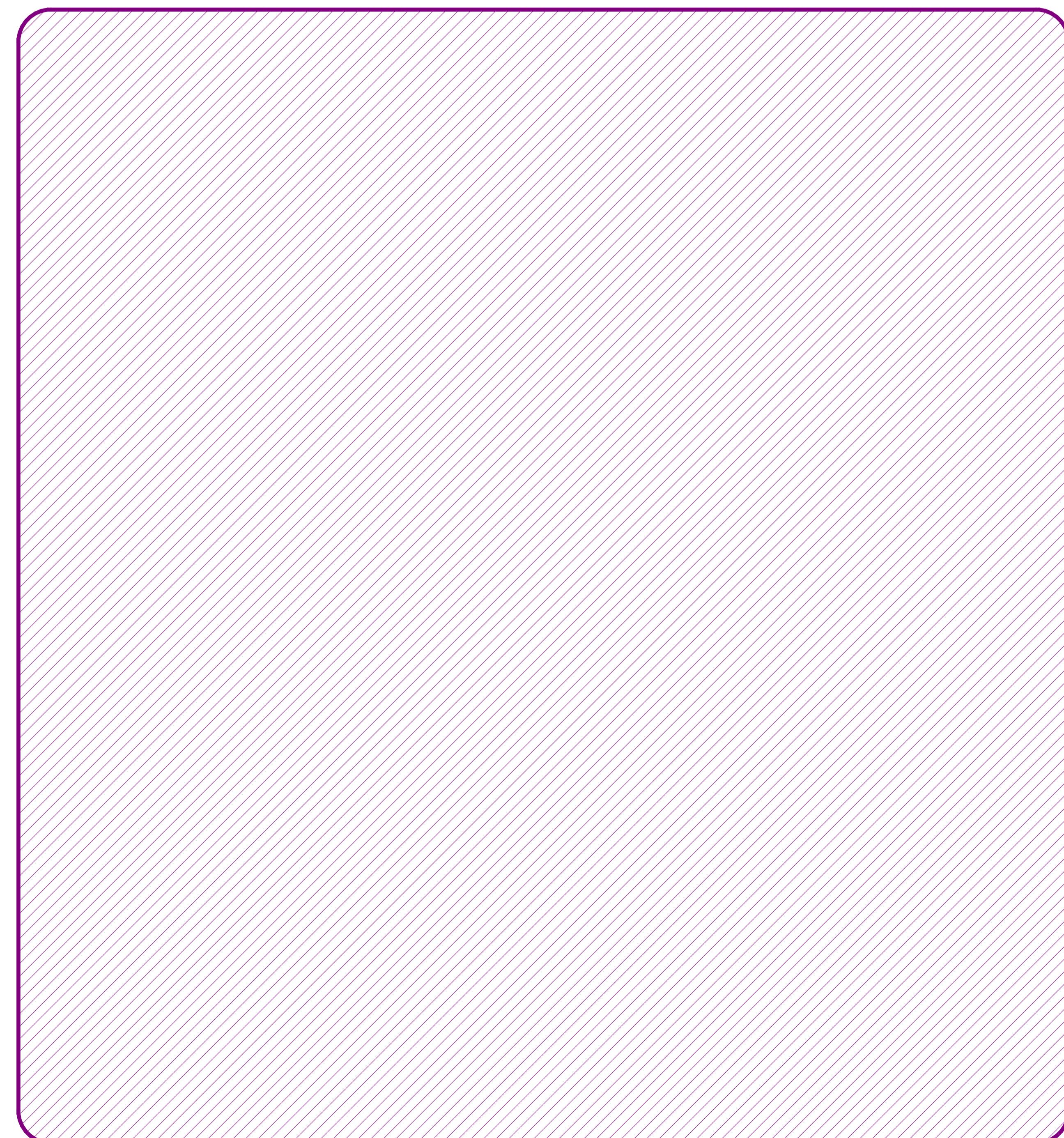
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
2	Bottom Layer	Copper	1.40mil		GBL	
	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil



Title: BSPD	Designer: Andrew Katz aakatz3@gmail.com
Size: Letter	Number:
Date: 3/2/2020	Revision:
Time: 12:50:42 AM	Sheet 1 of 1
File: UVM AERO BSPD.PcbDoc	*

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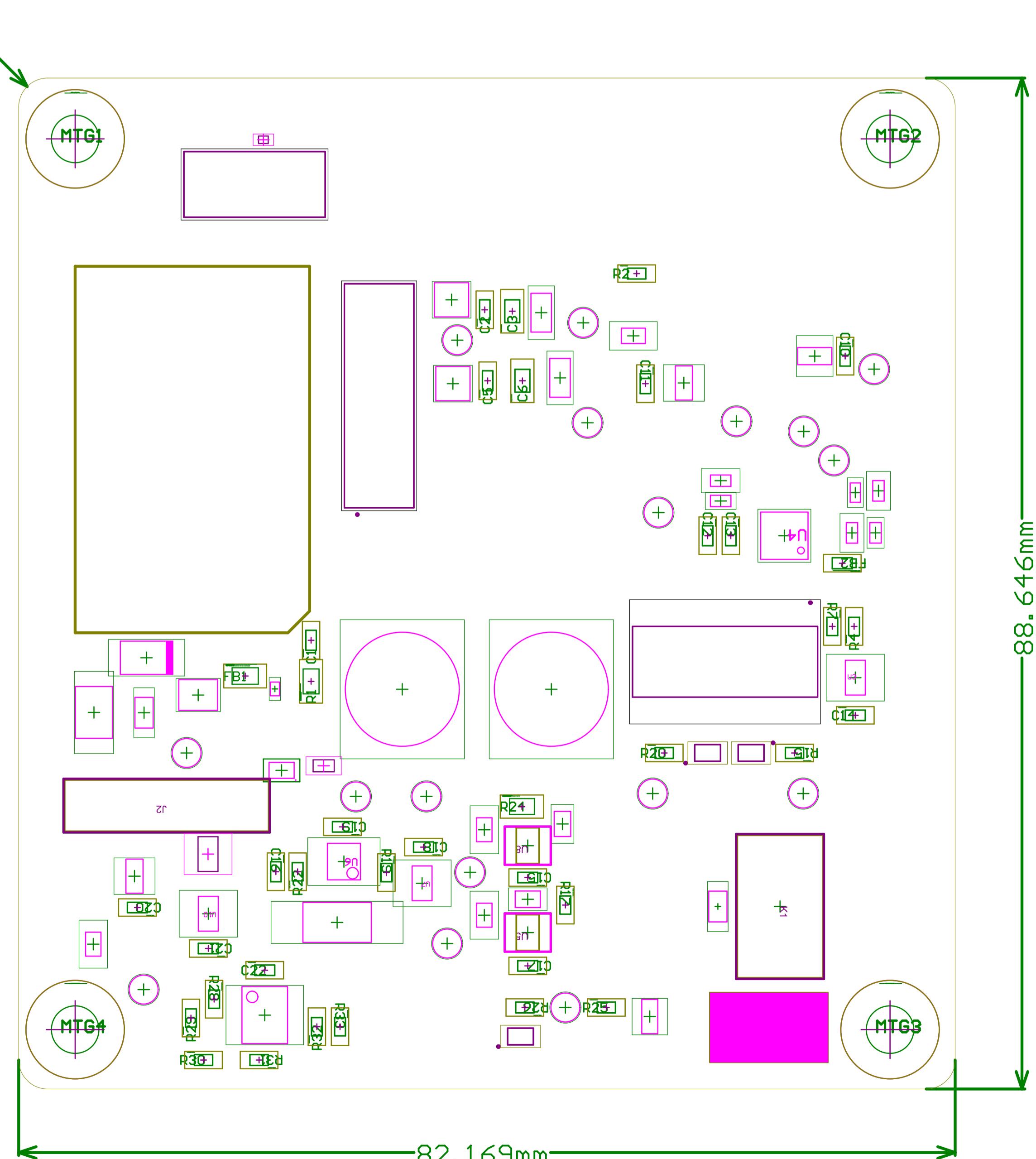
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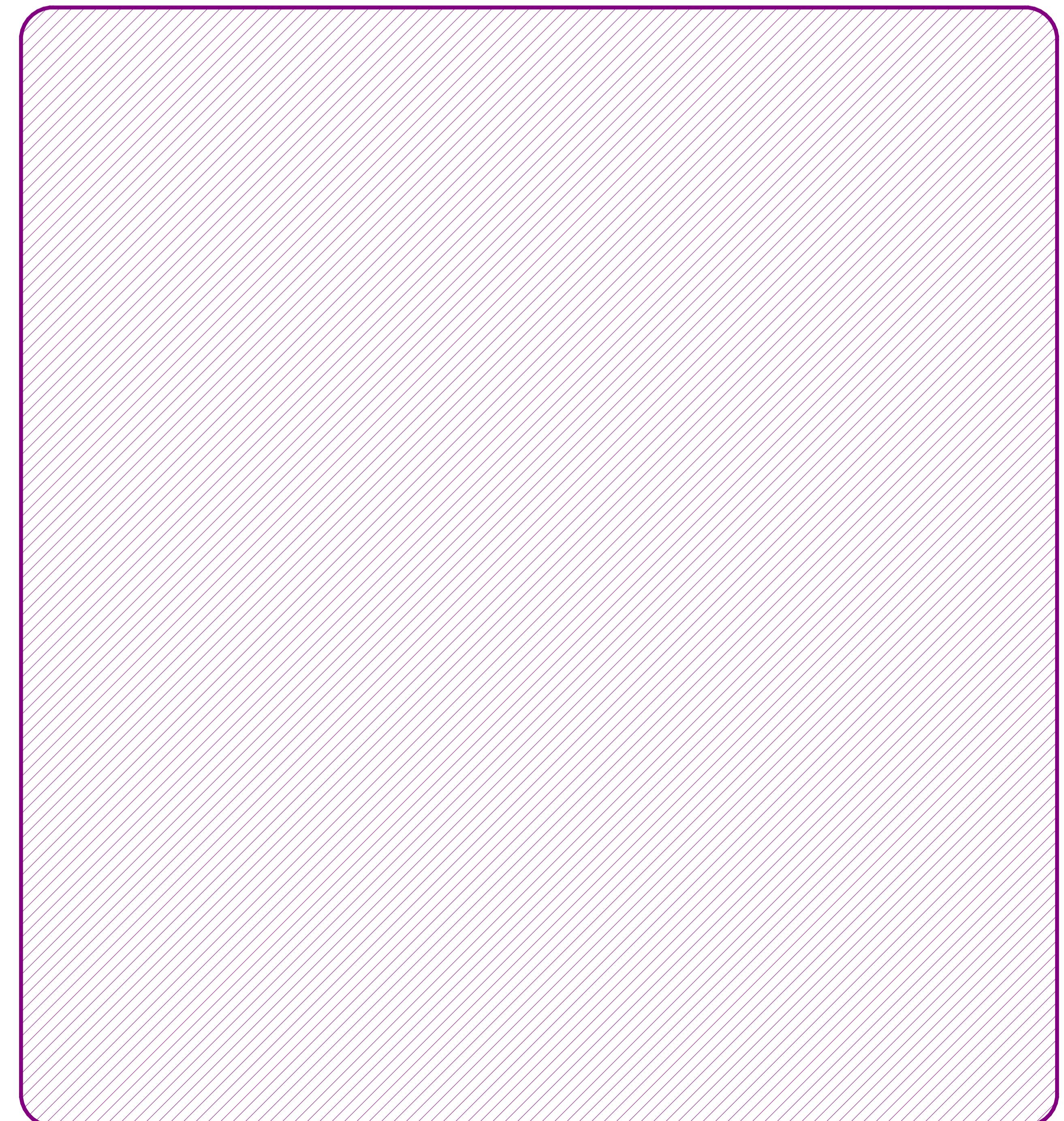
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
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	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil



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File: UVM AERO BSPD.PcbDoc

Designer:  
Andrew Katz  
aakatz3@gmail.com  
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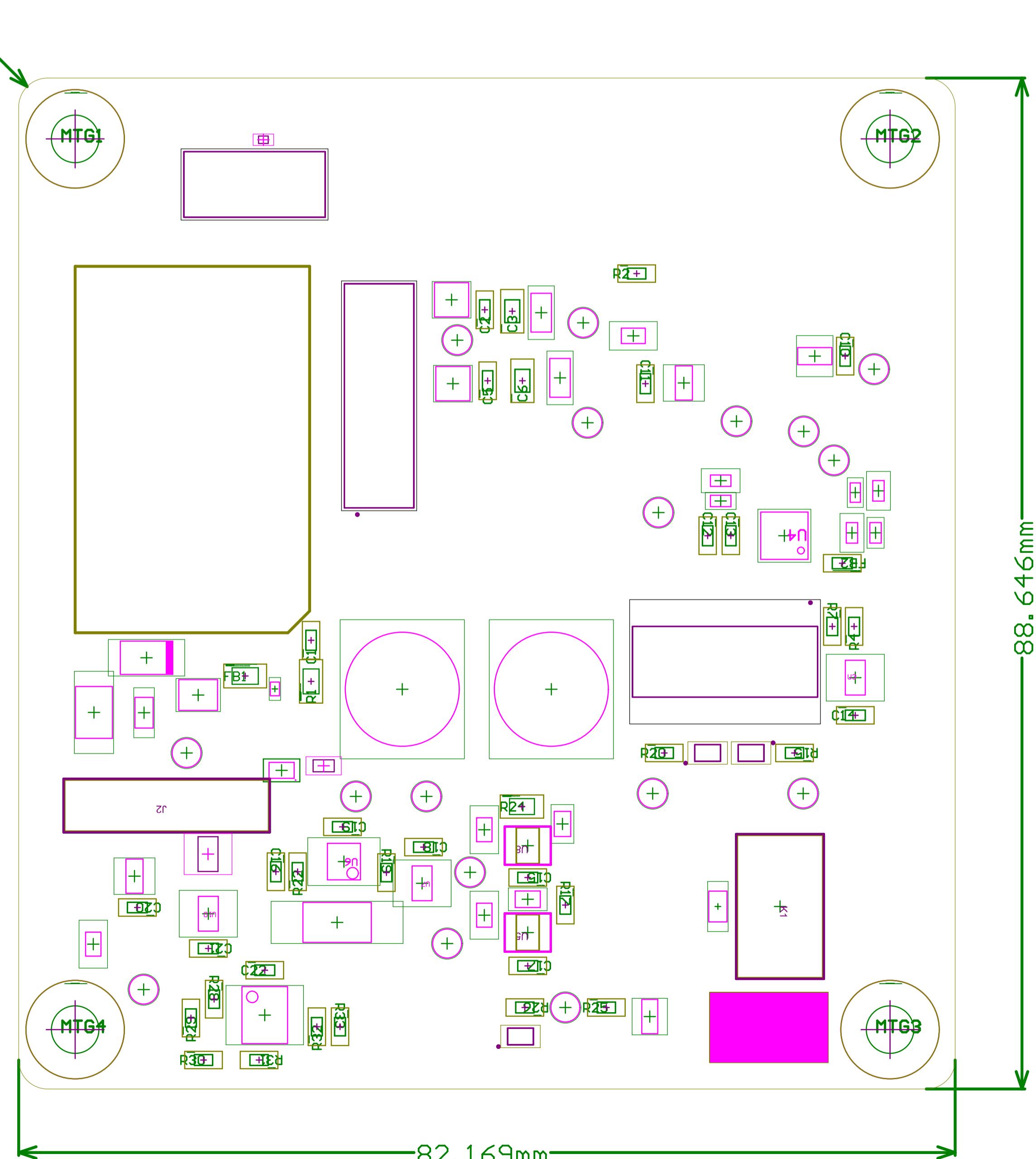
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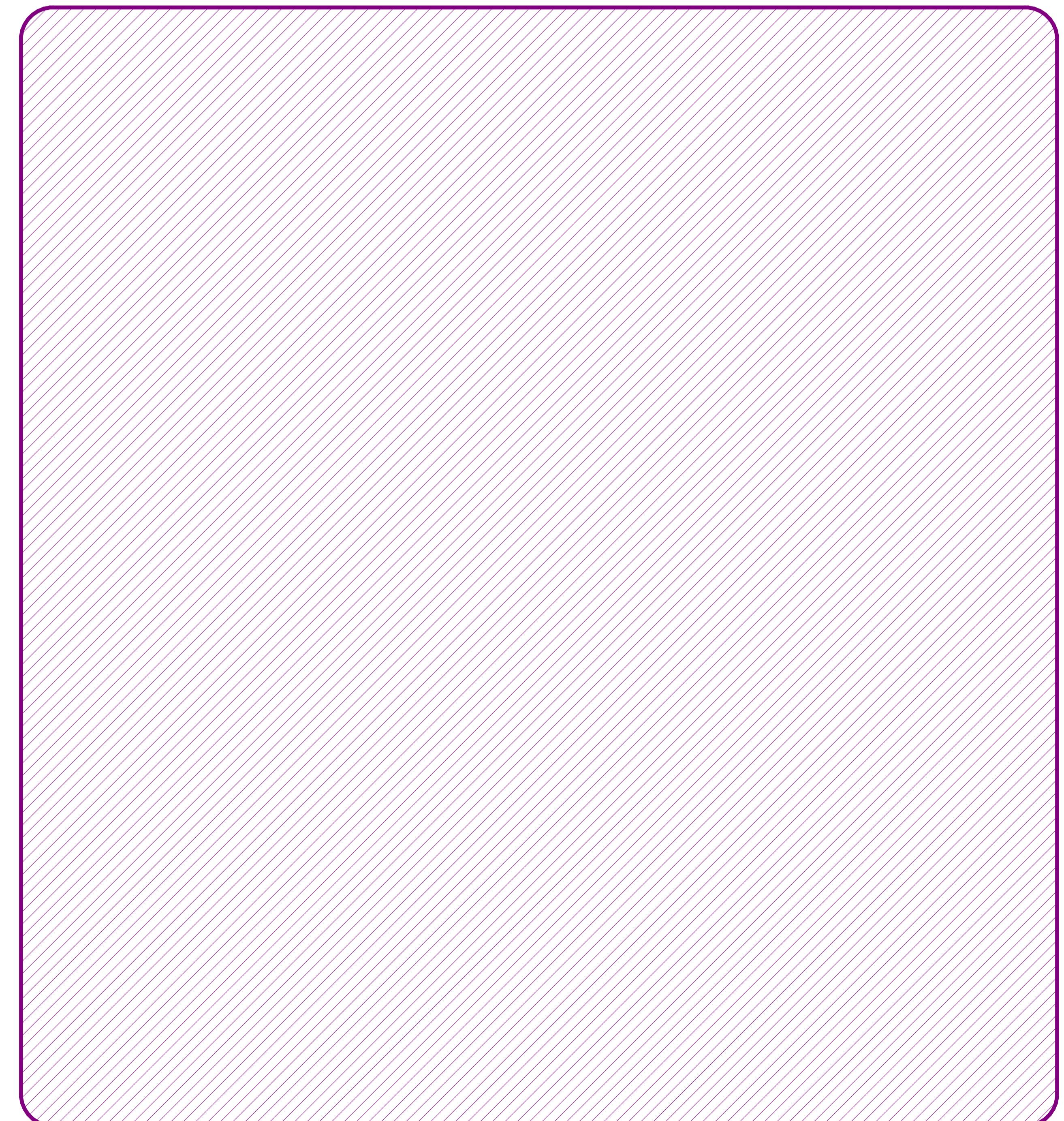
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
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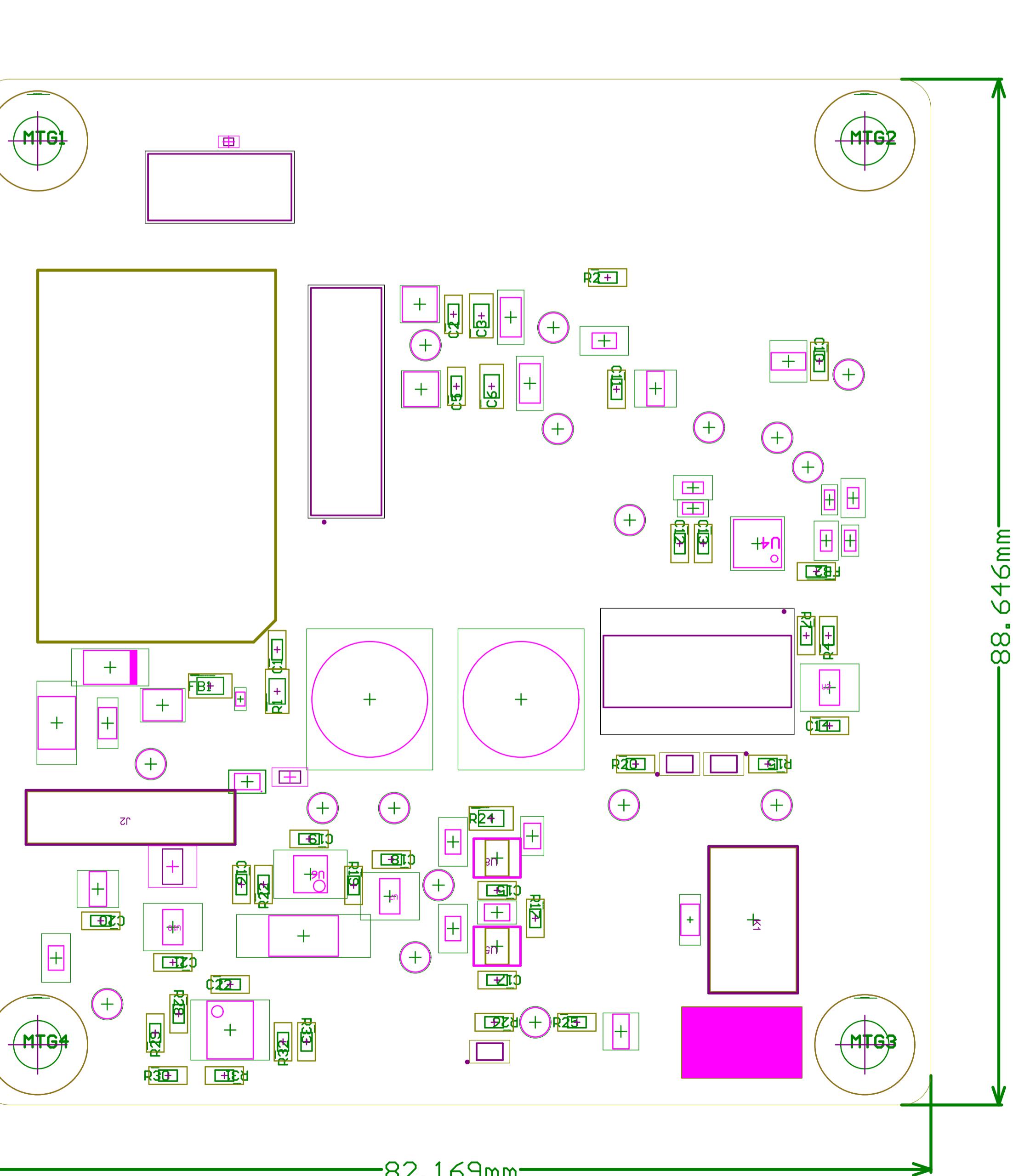
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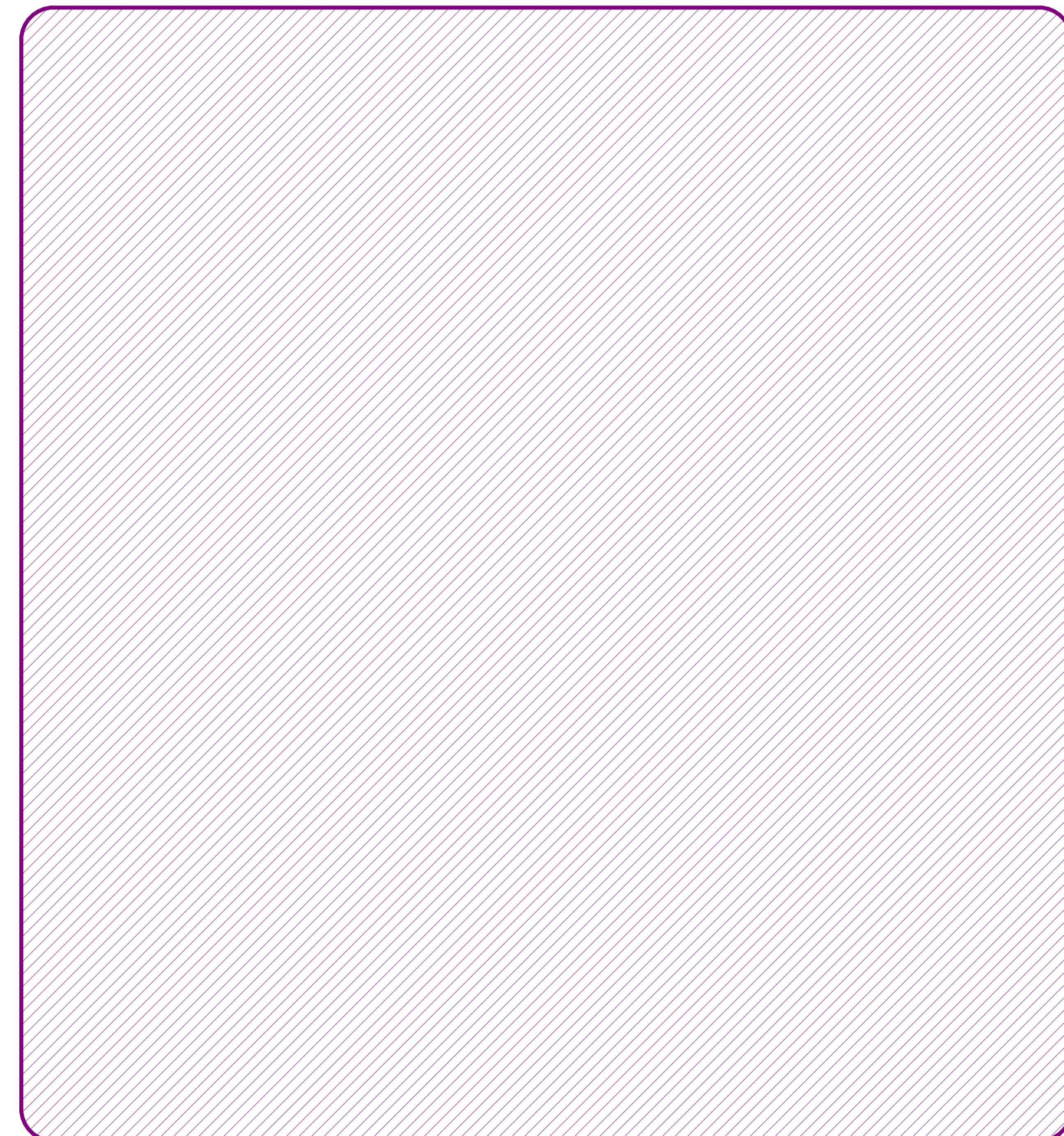
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
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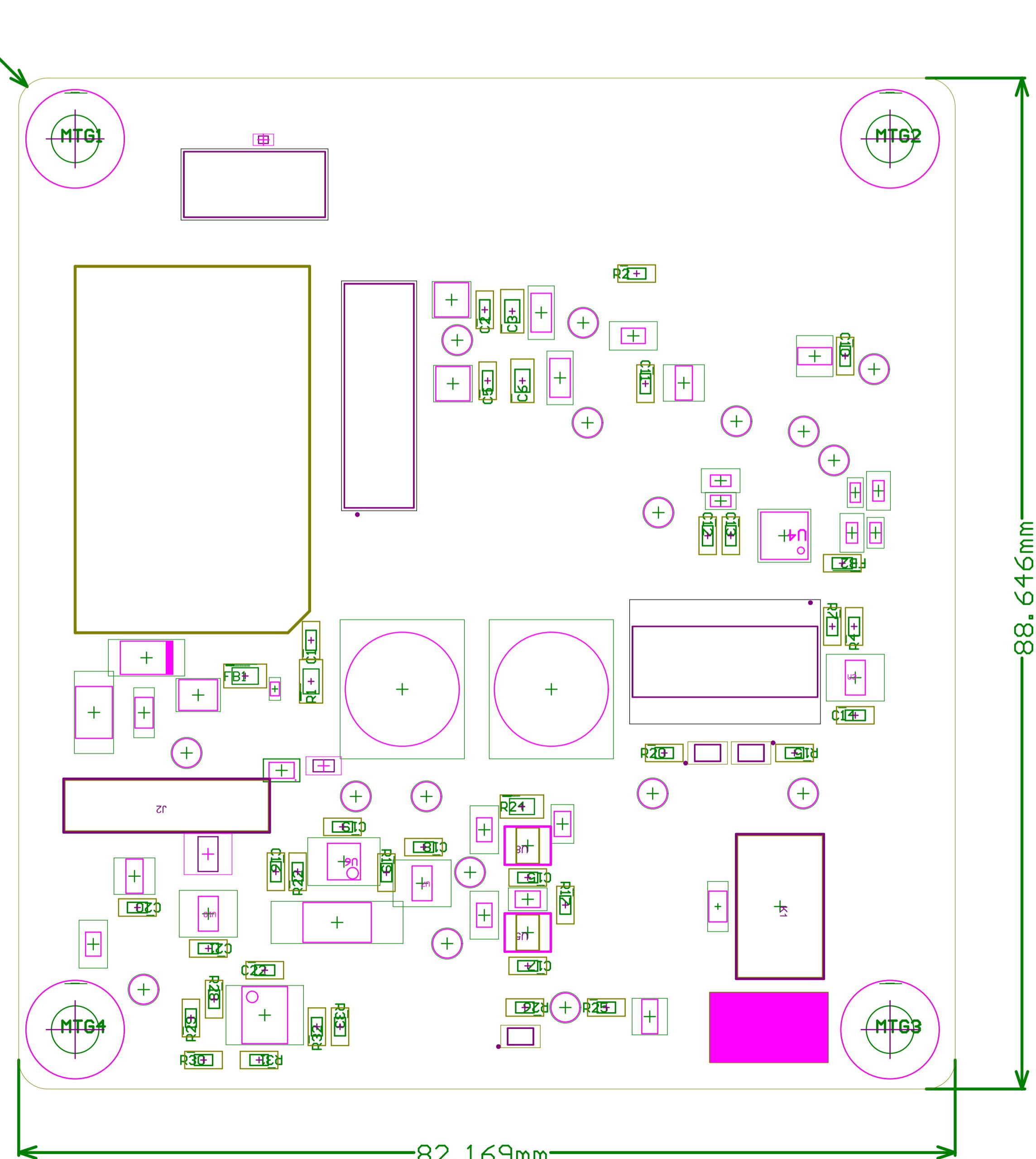
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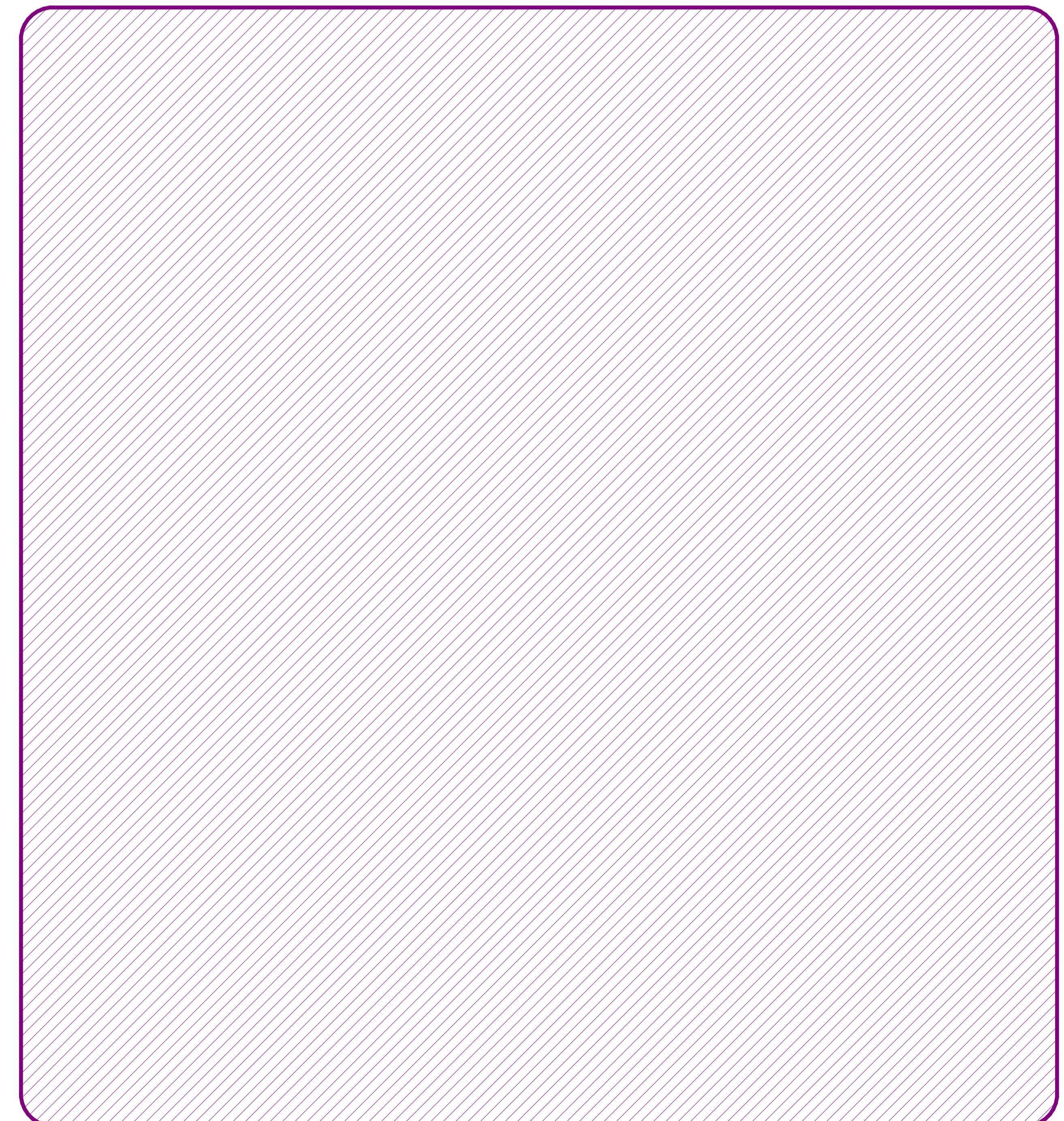
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
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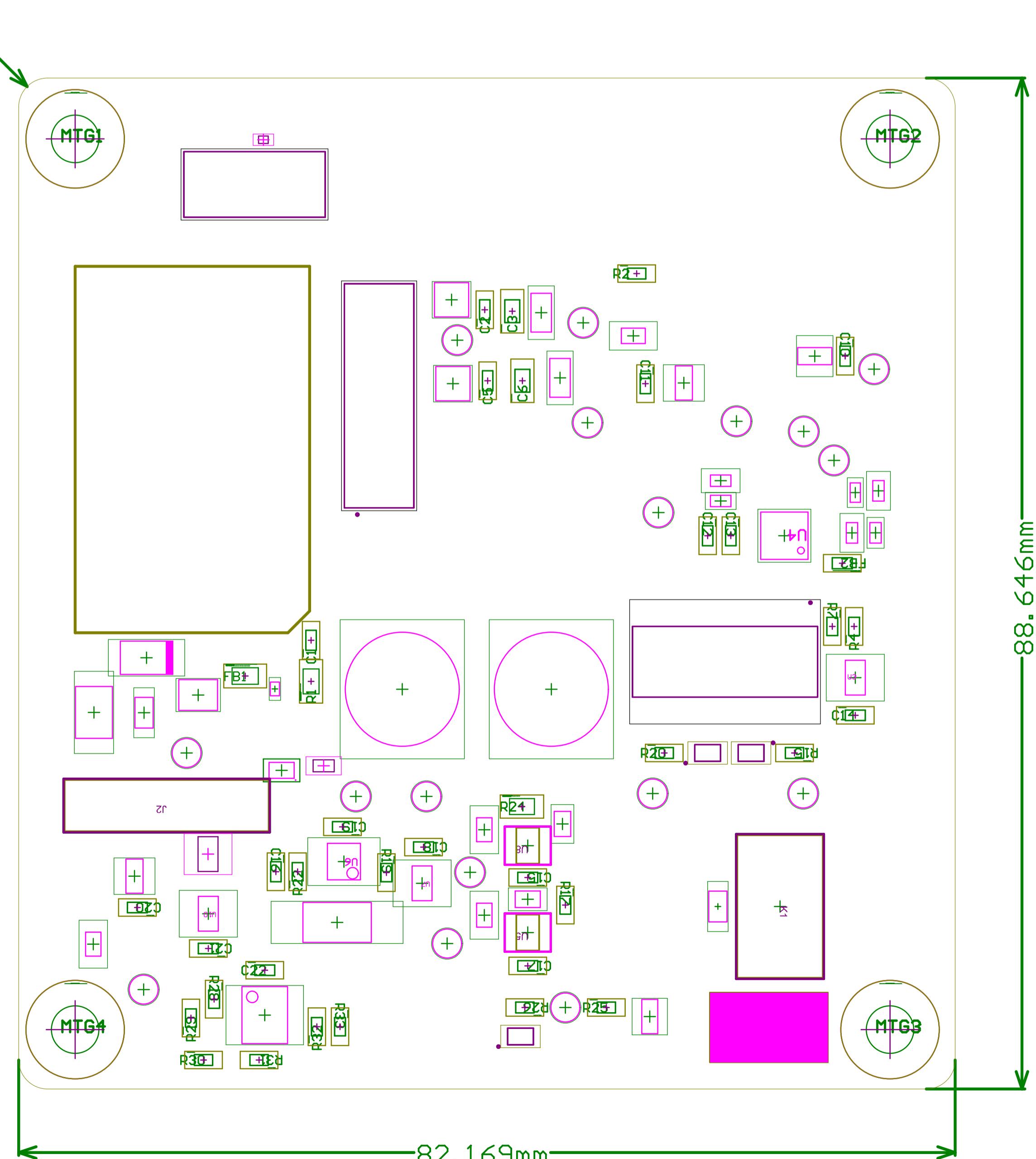
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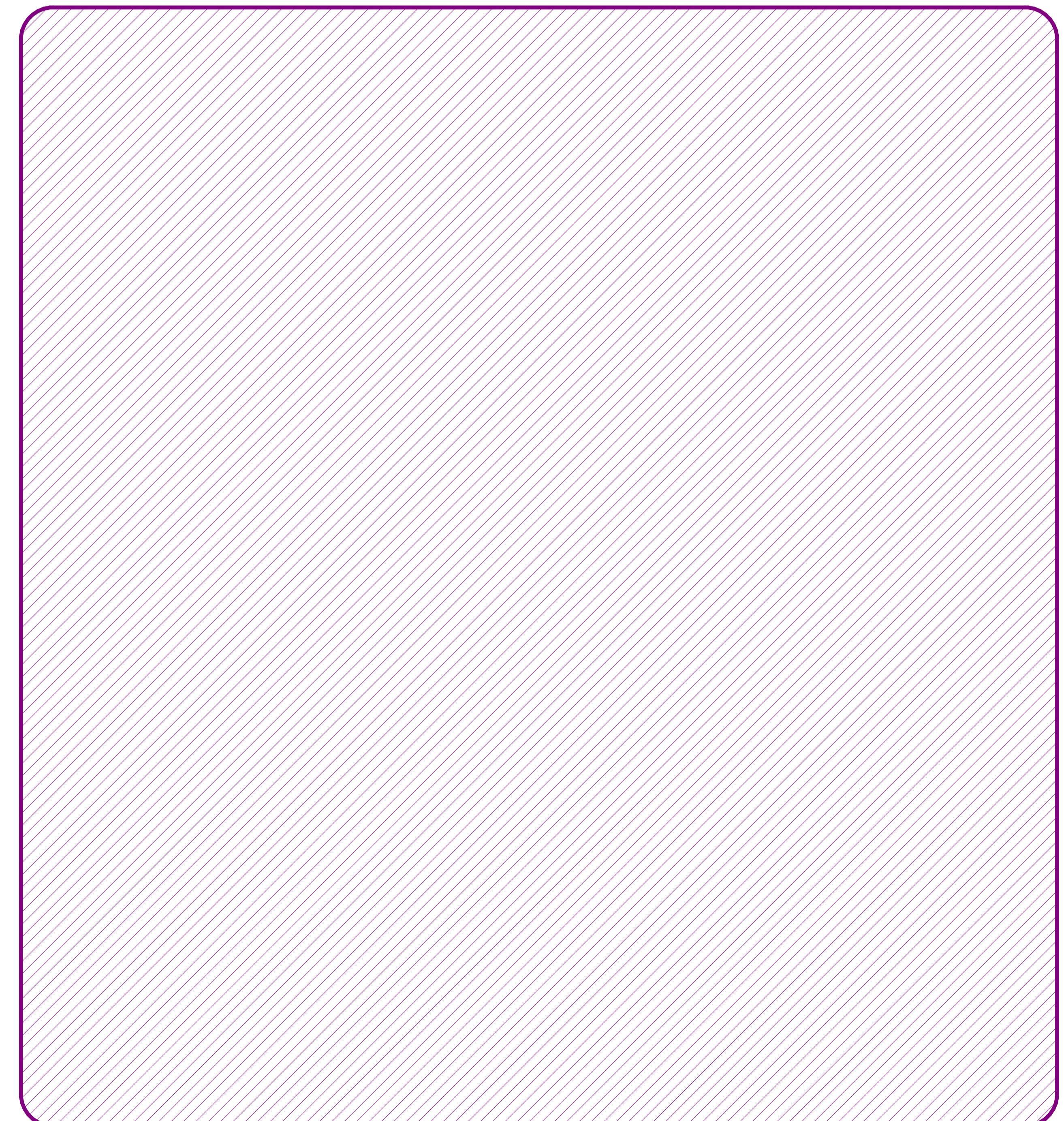
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	Top Solder	SM-001	1.00mil	4	GTS	
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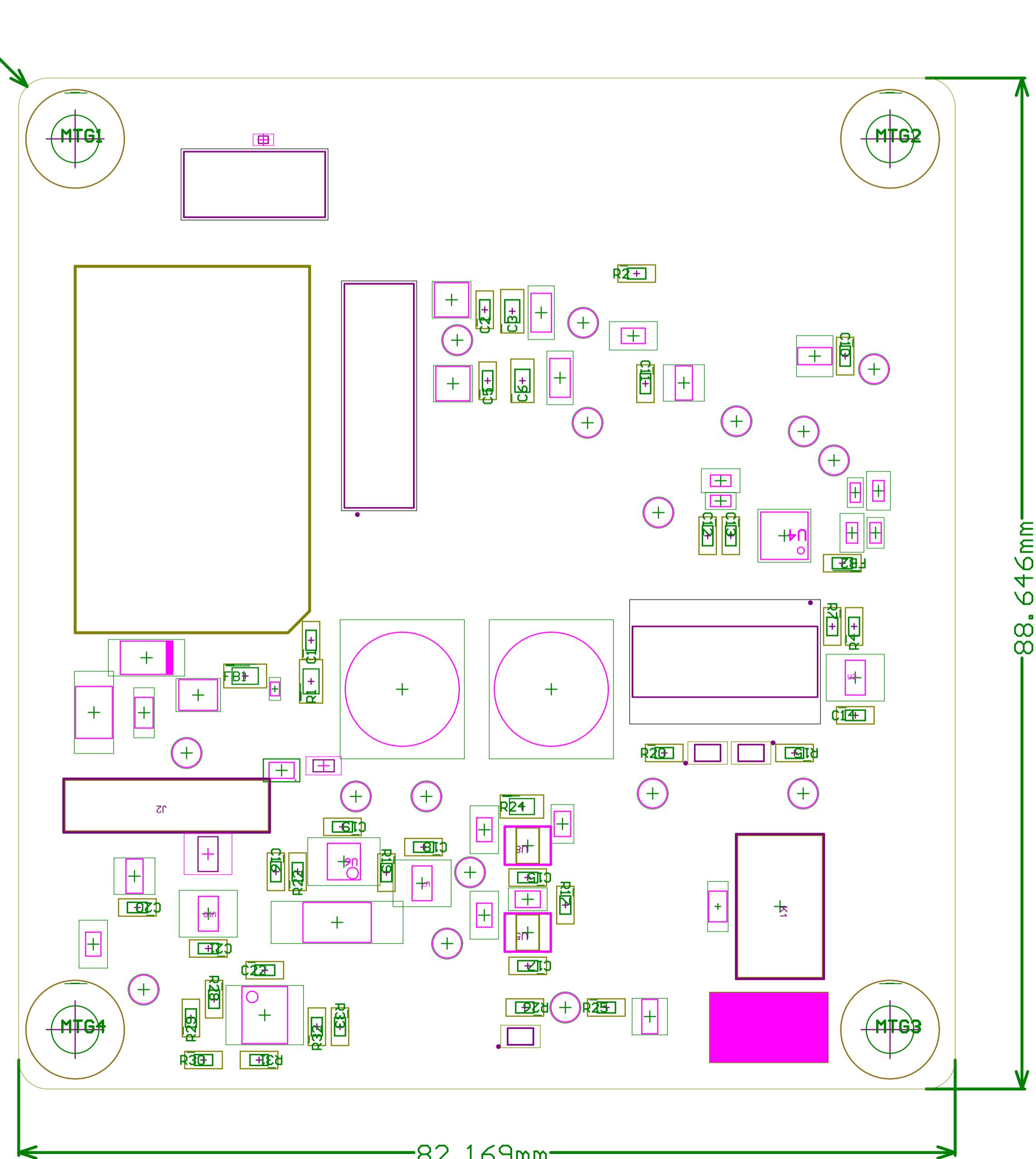
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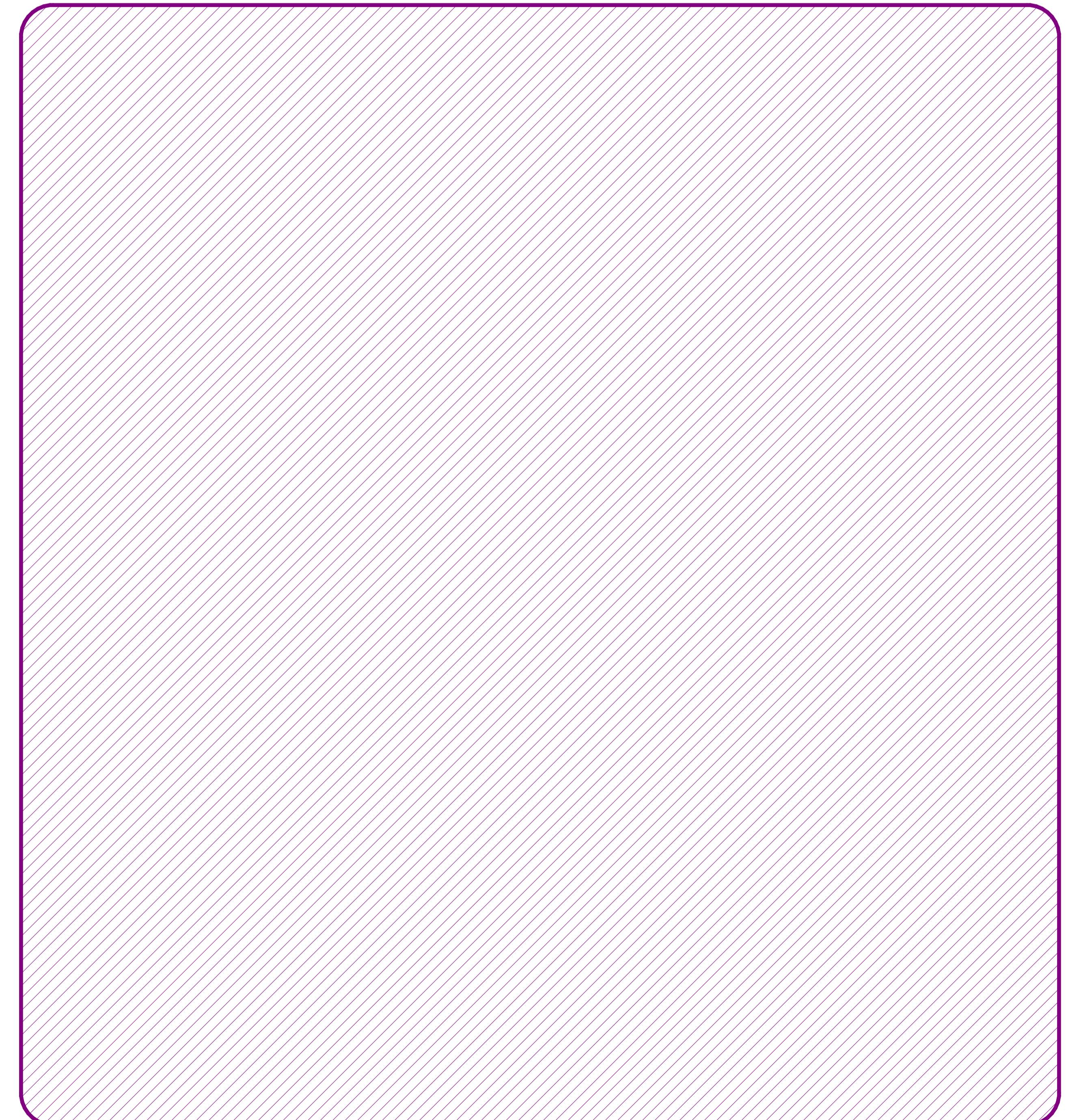
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
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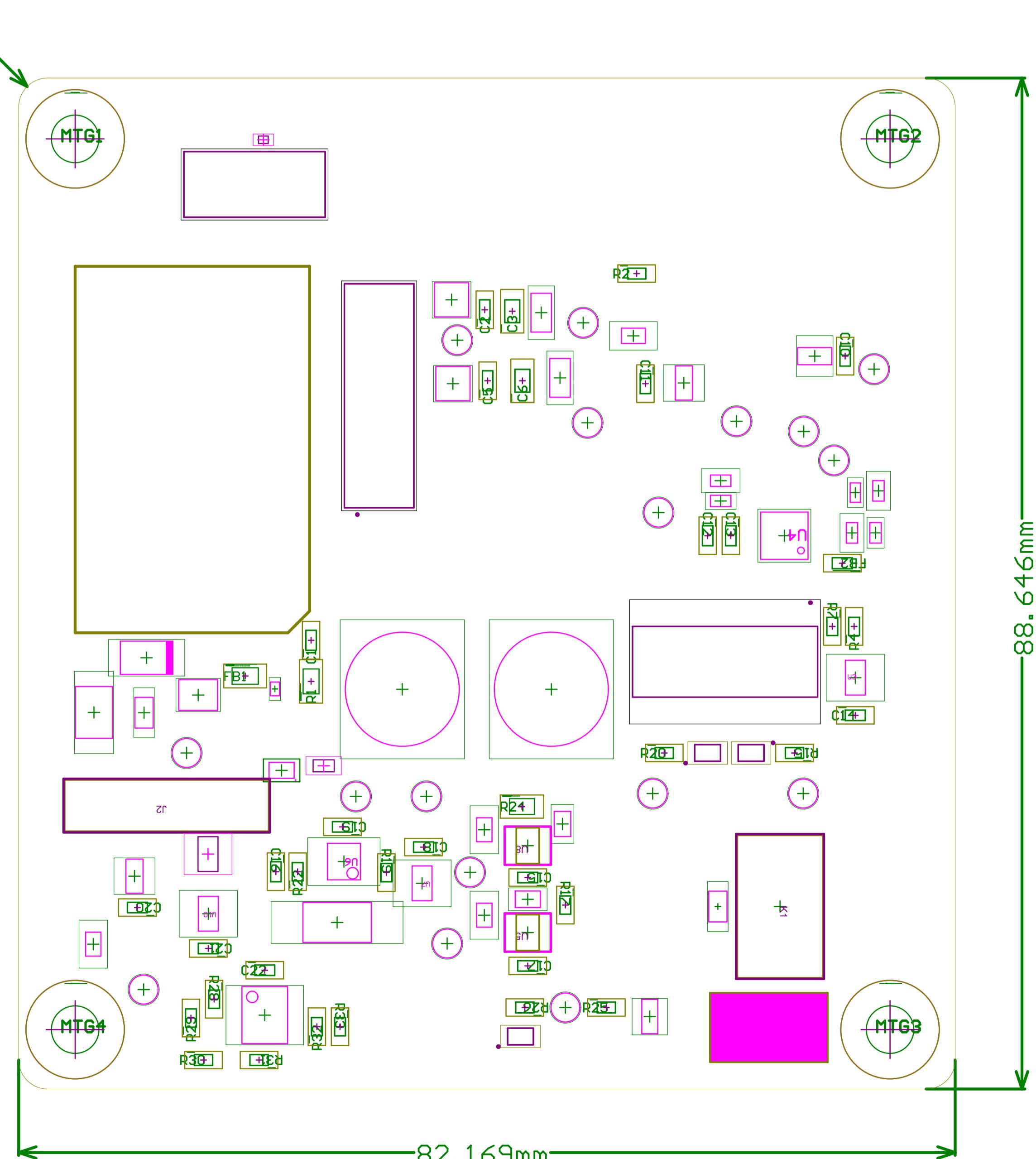
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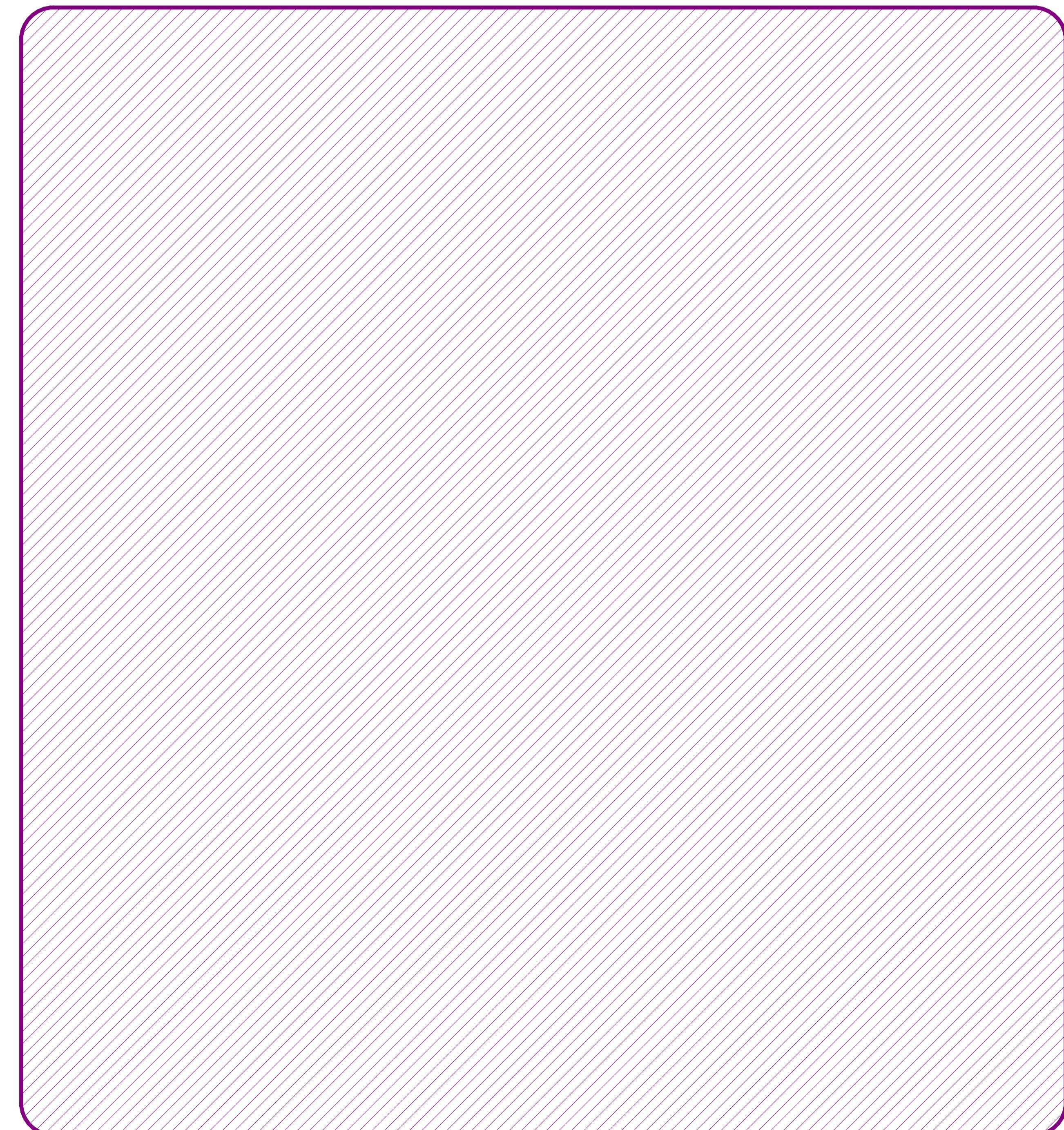
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
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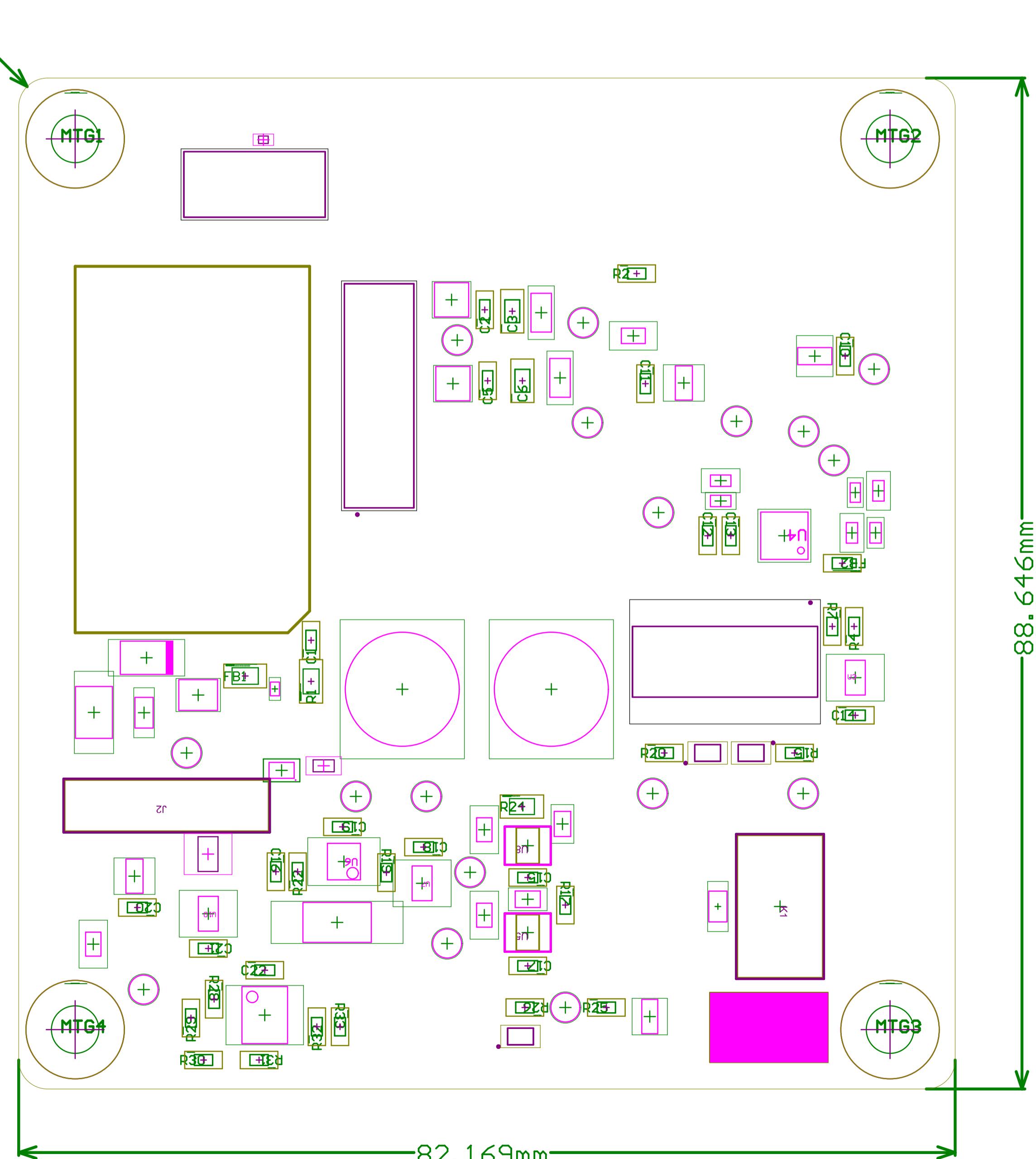
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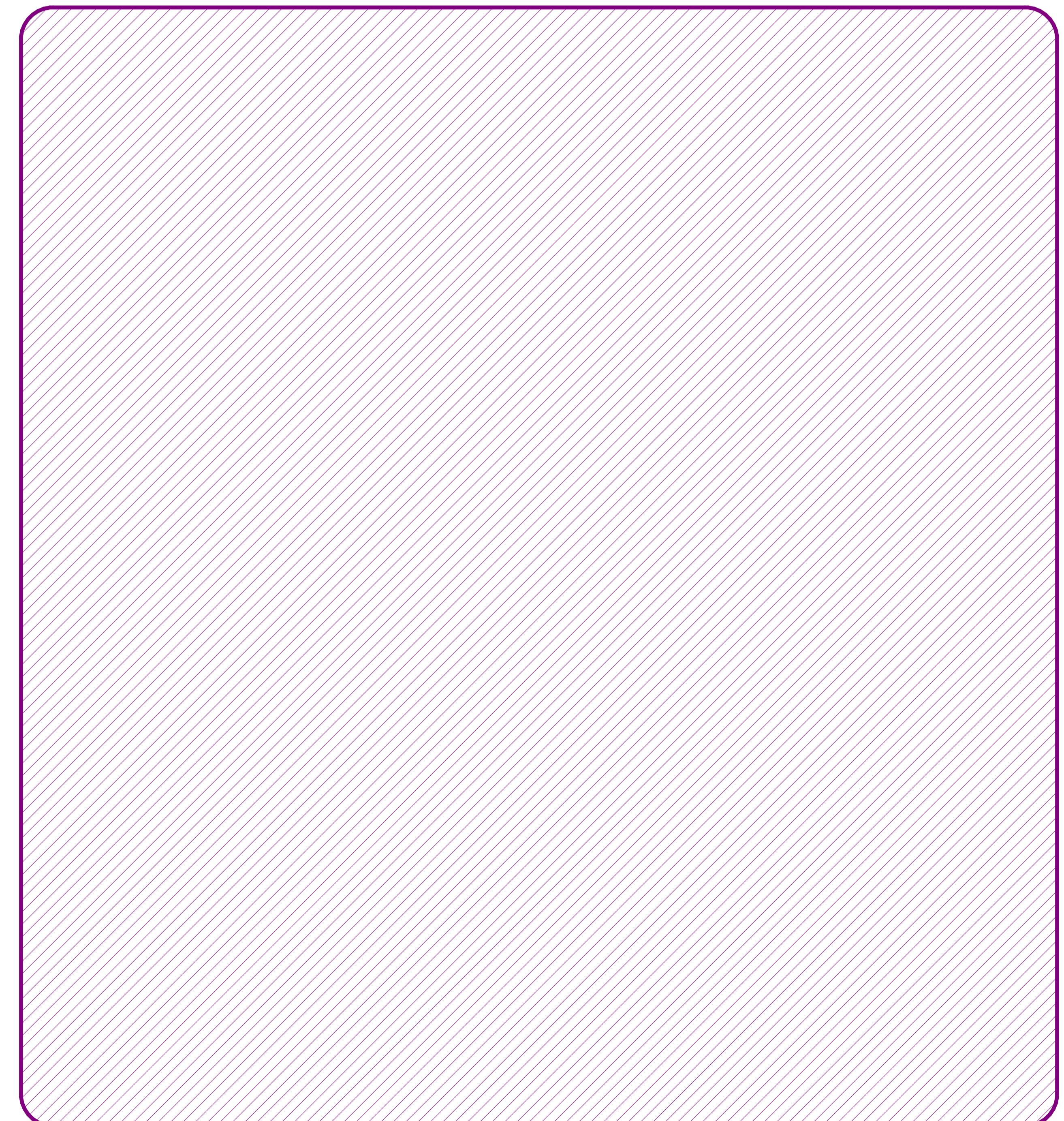
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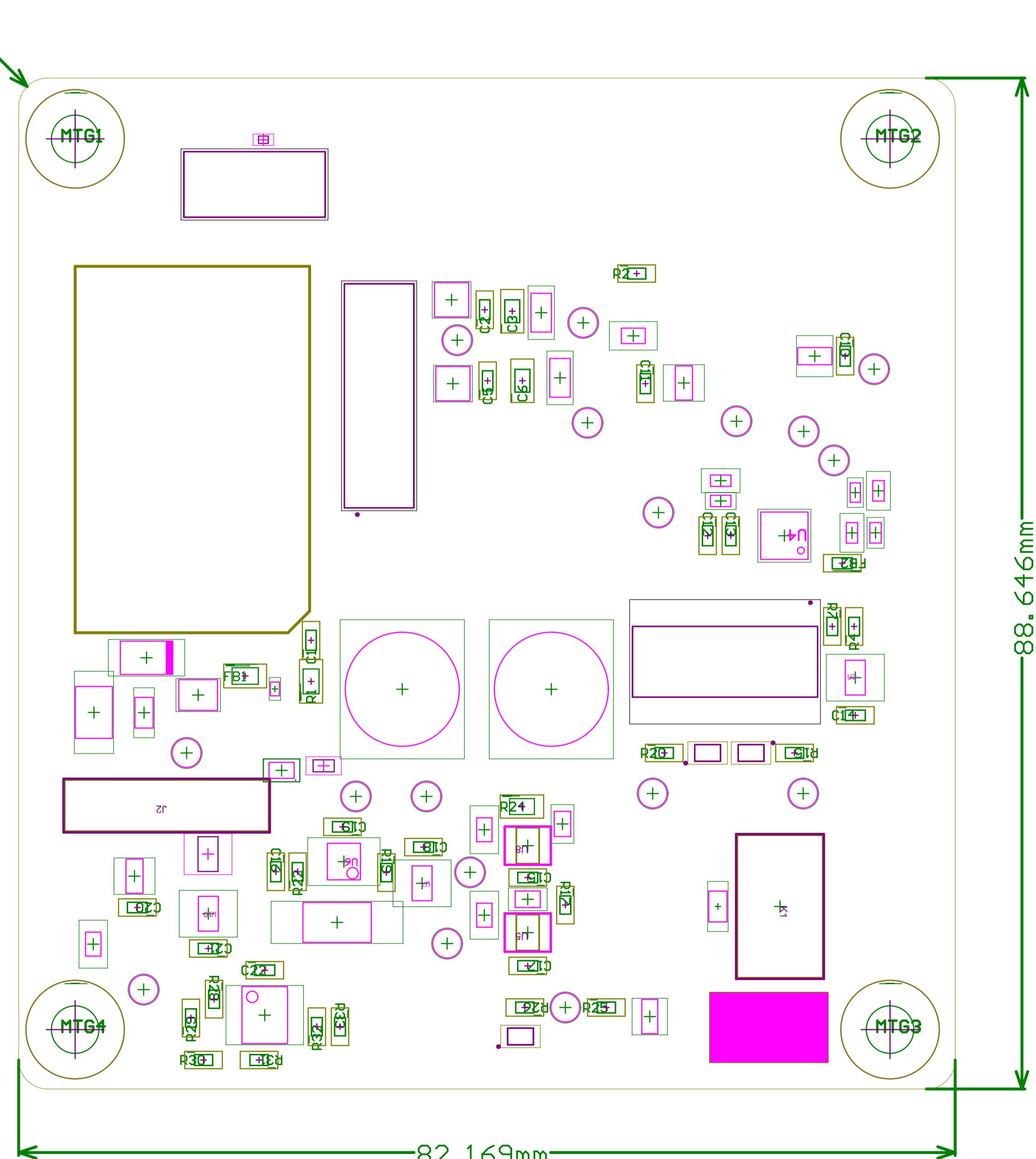
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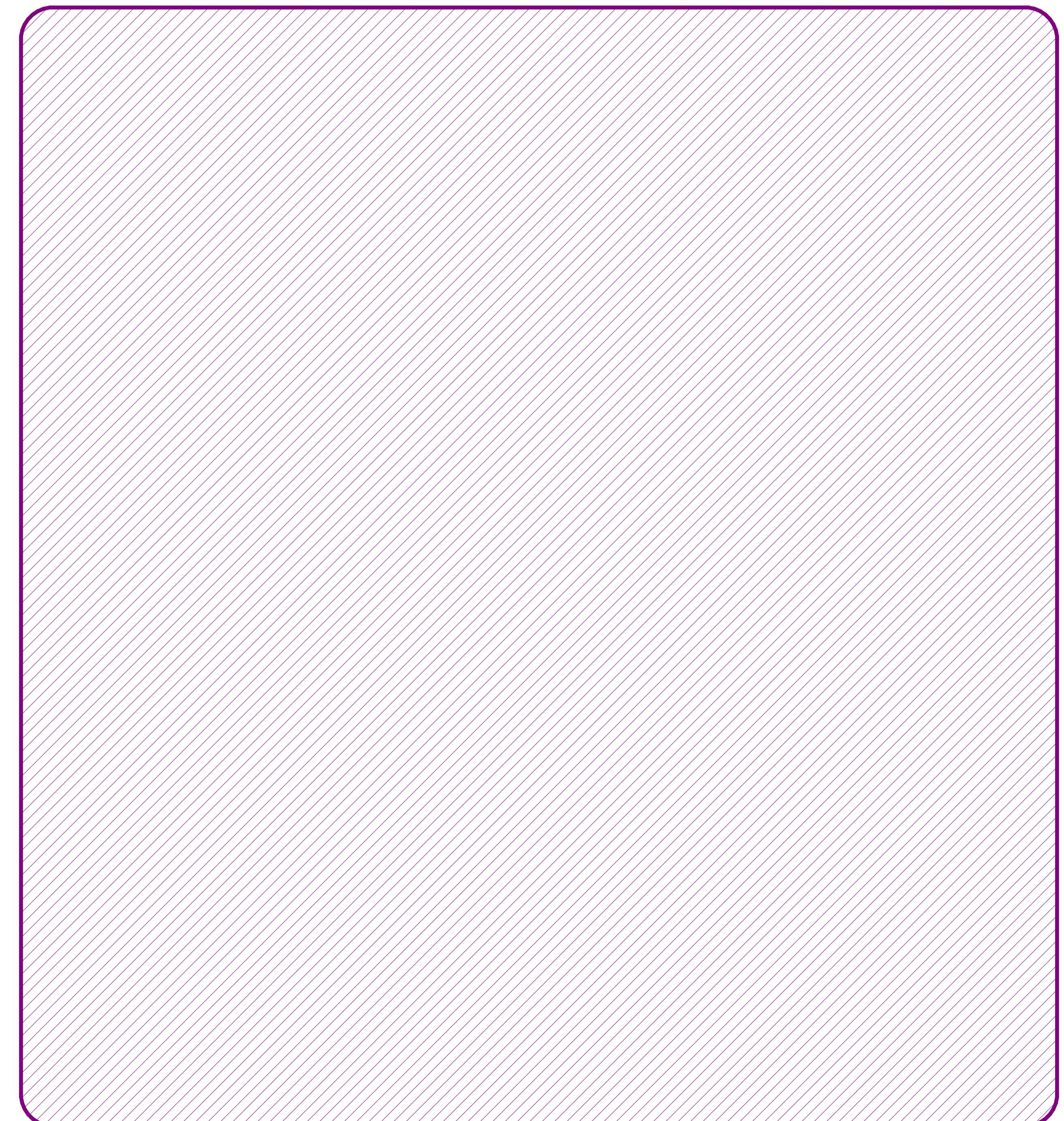
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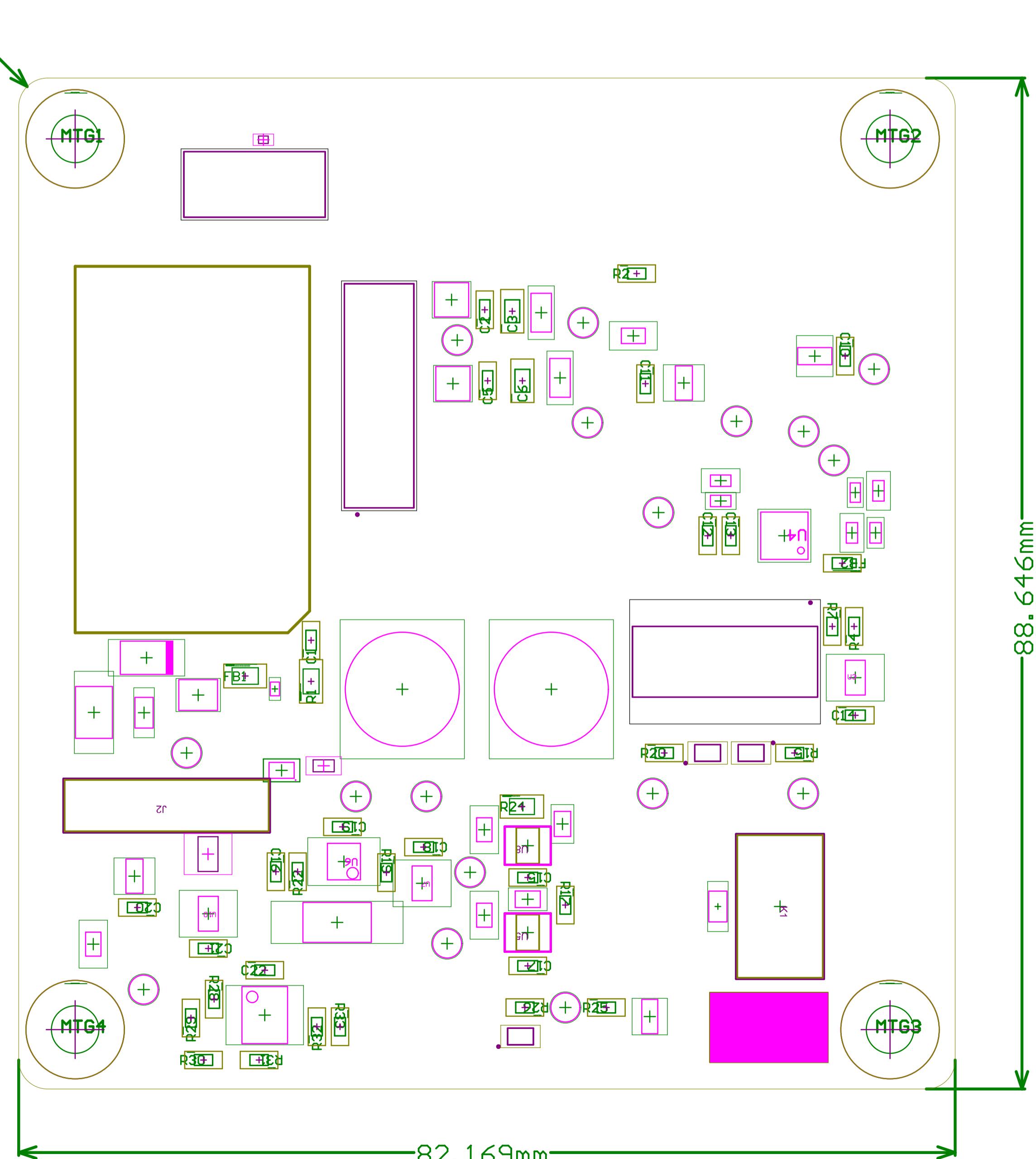
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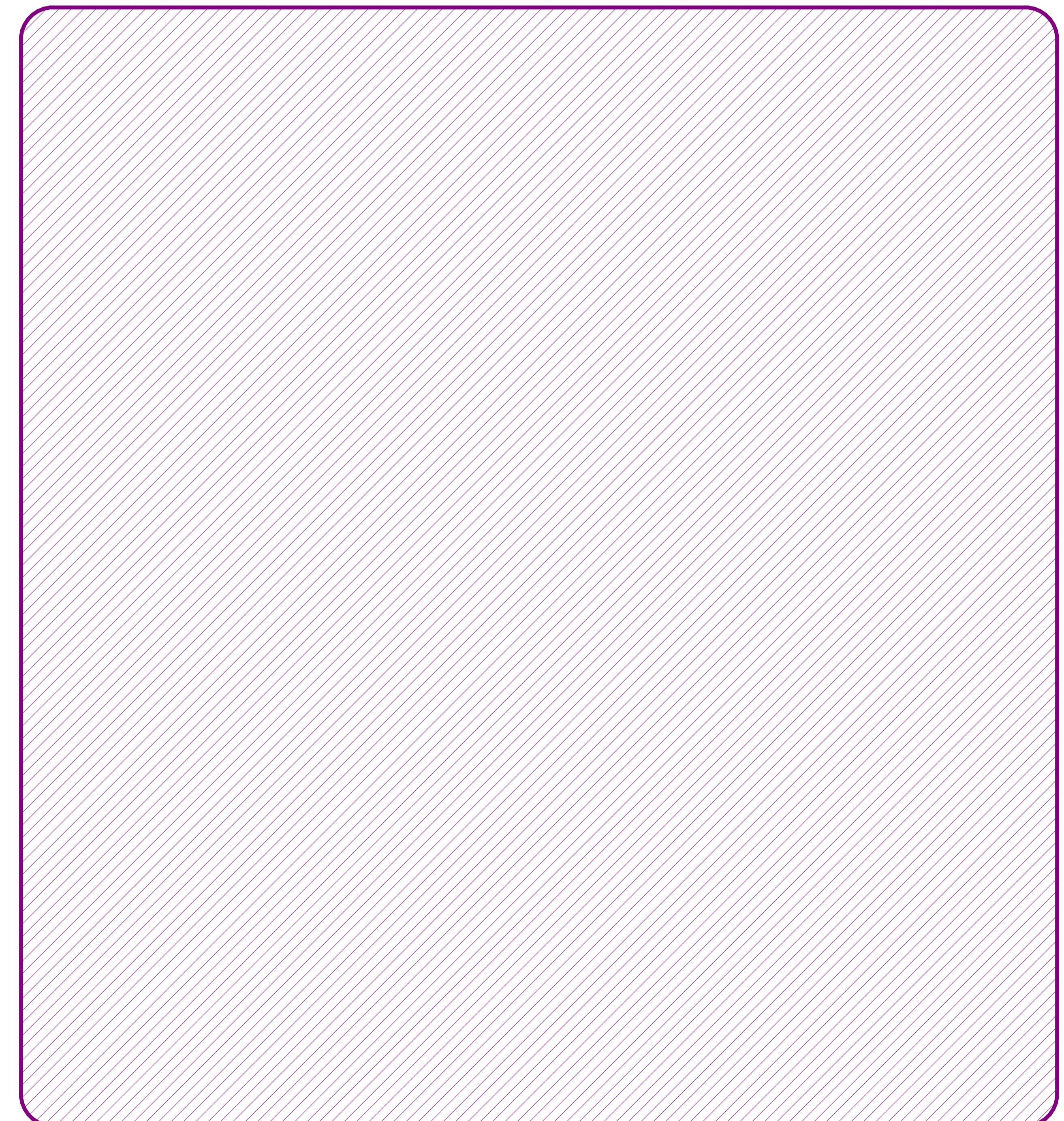
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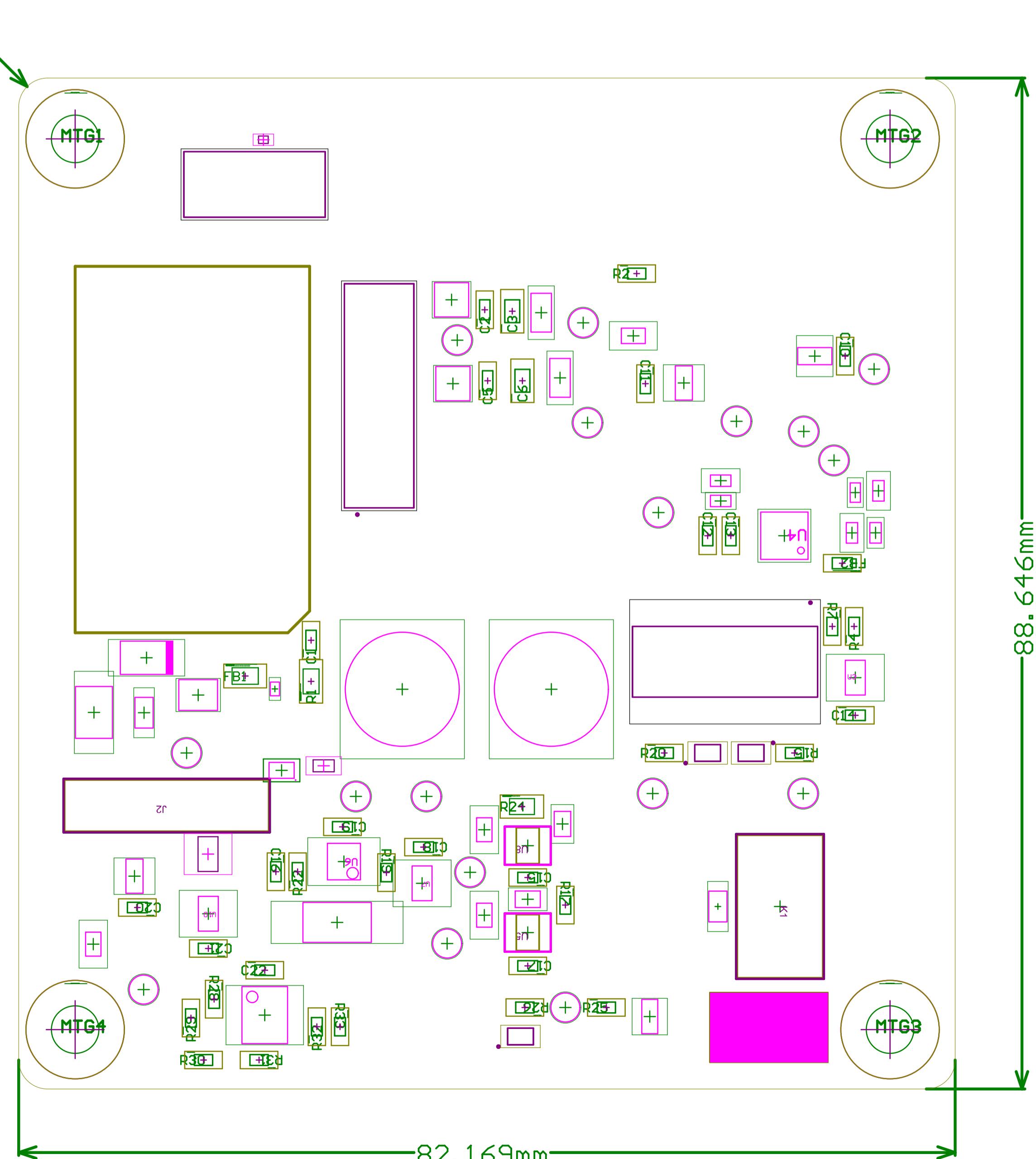
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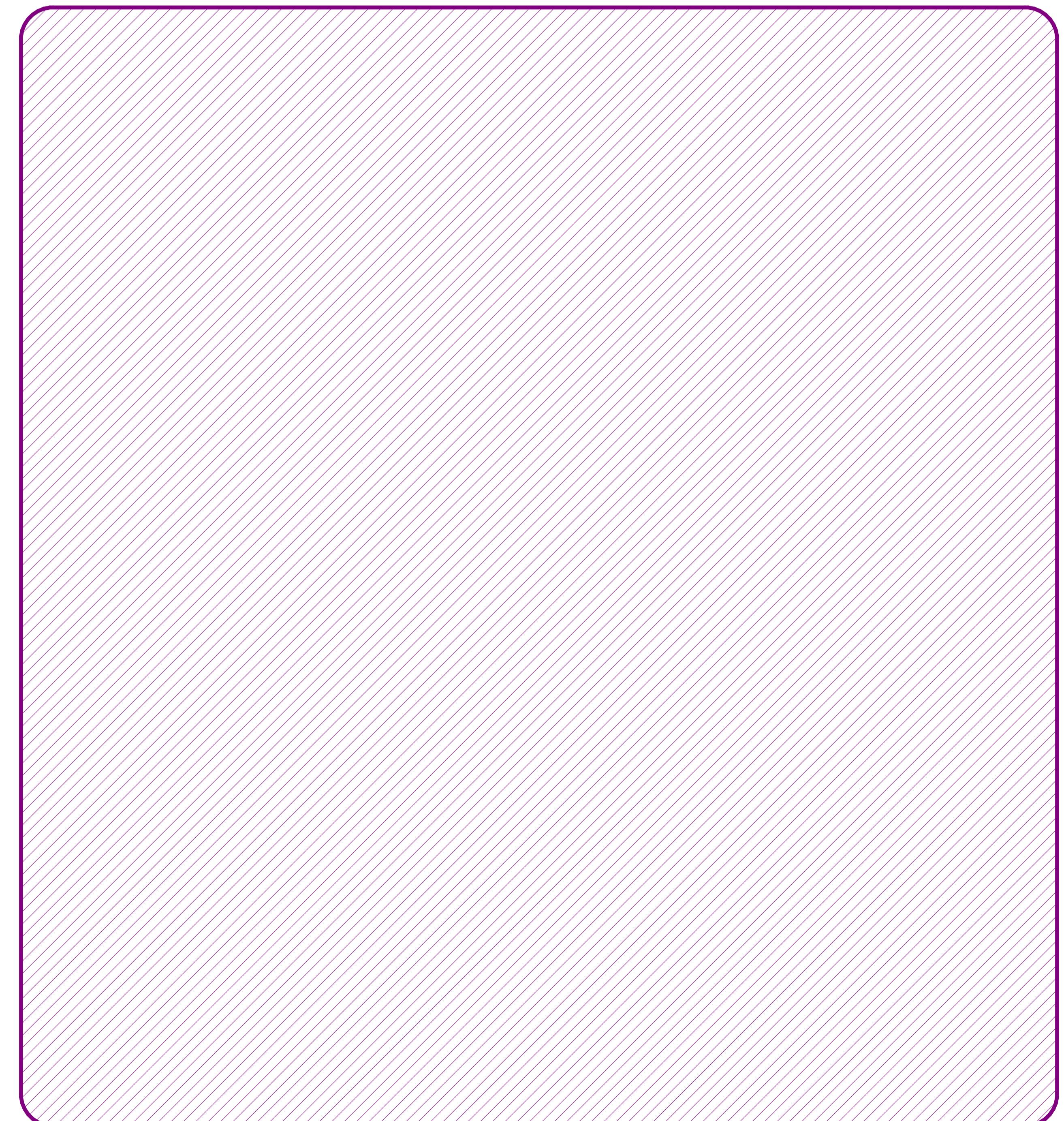
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	Top Solder	SM-001	1.00mil	4	GTS	
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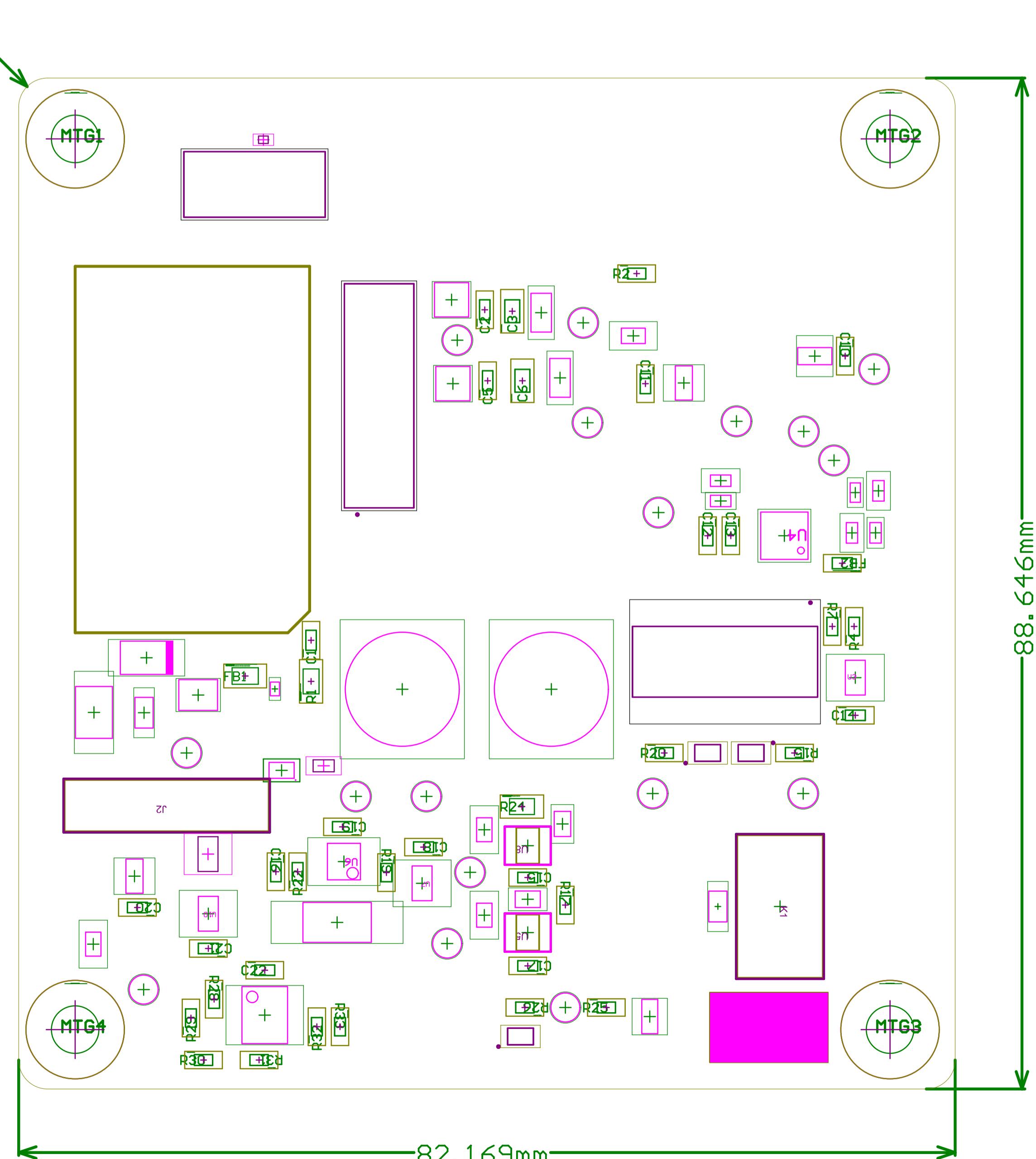
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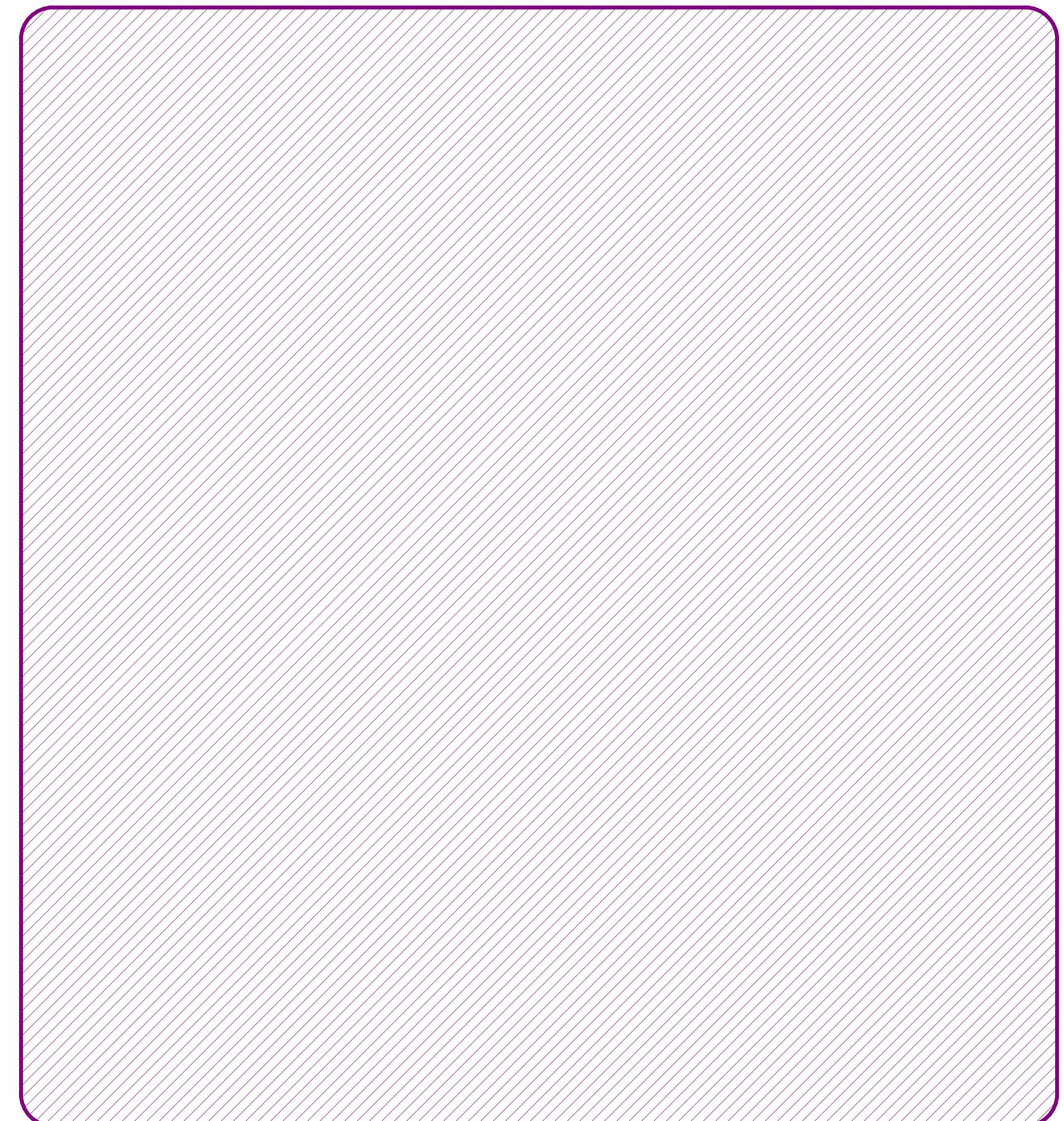
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
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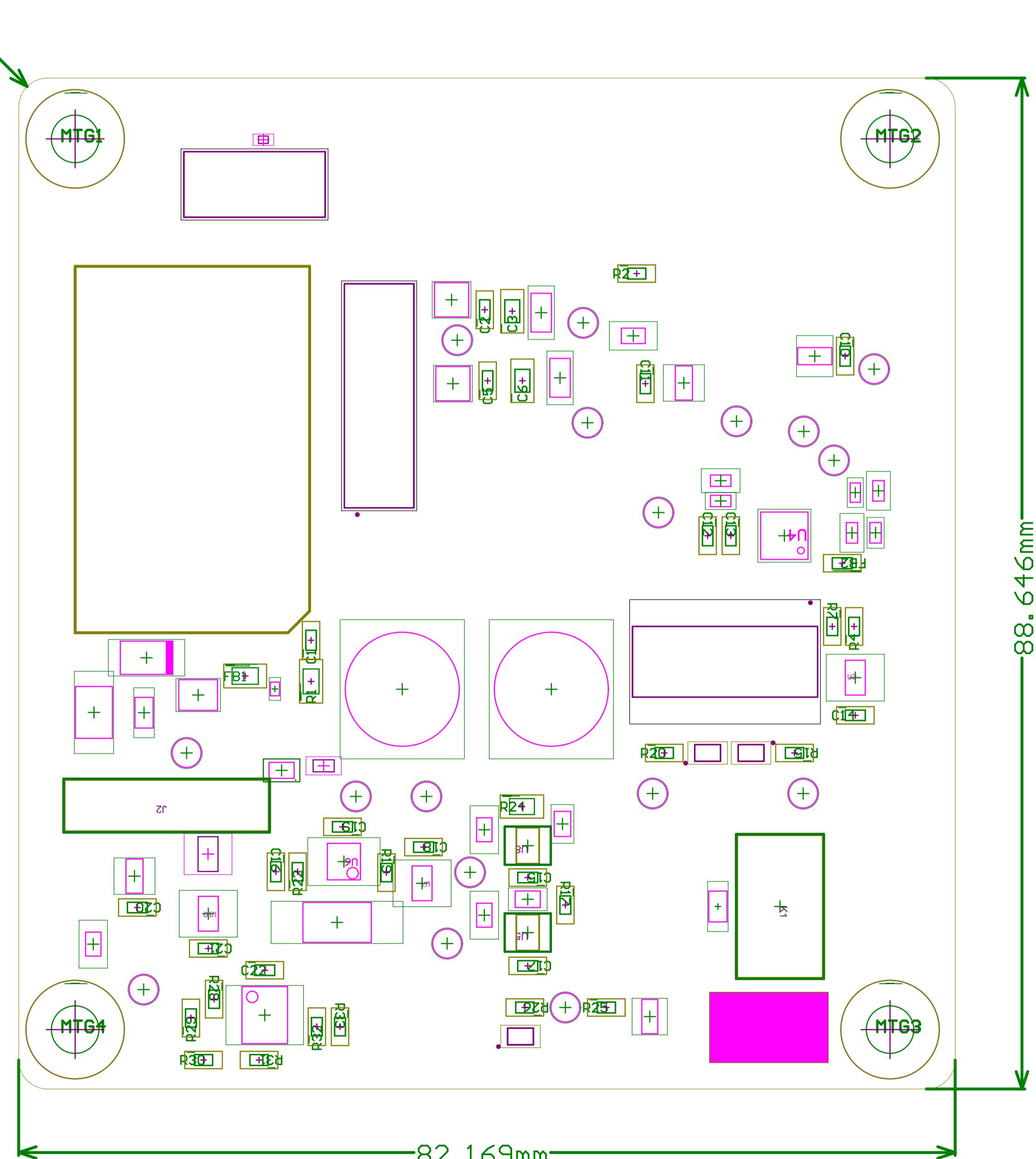
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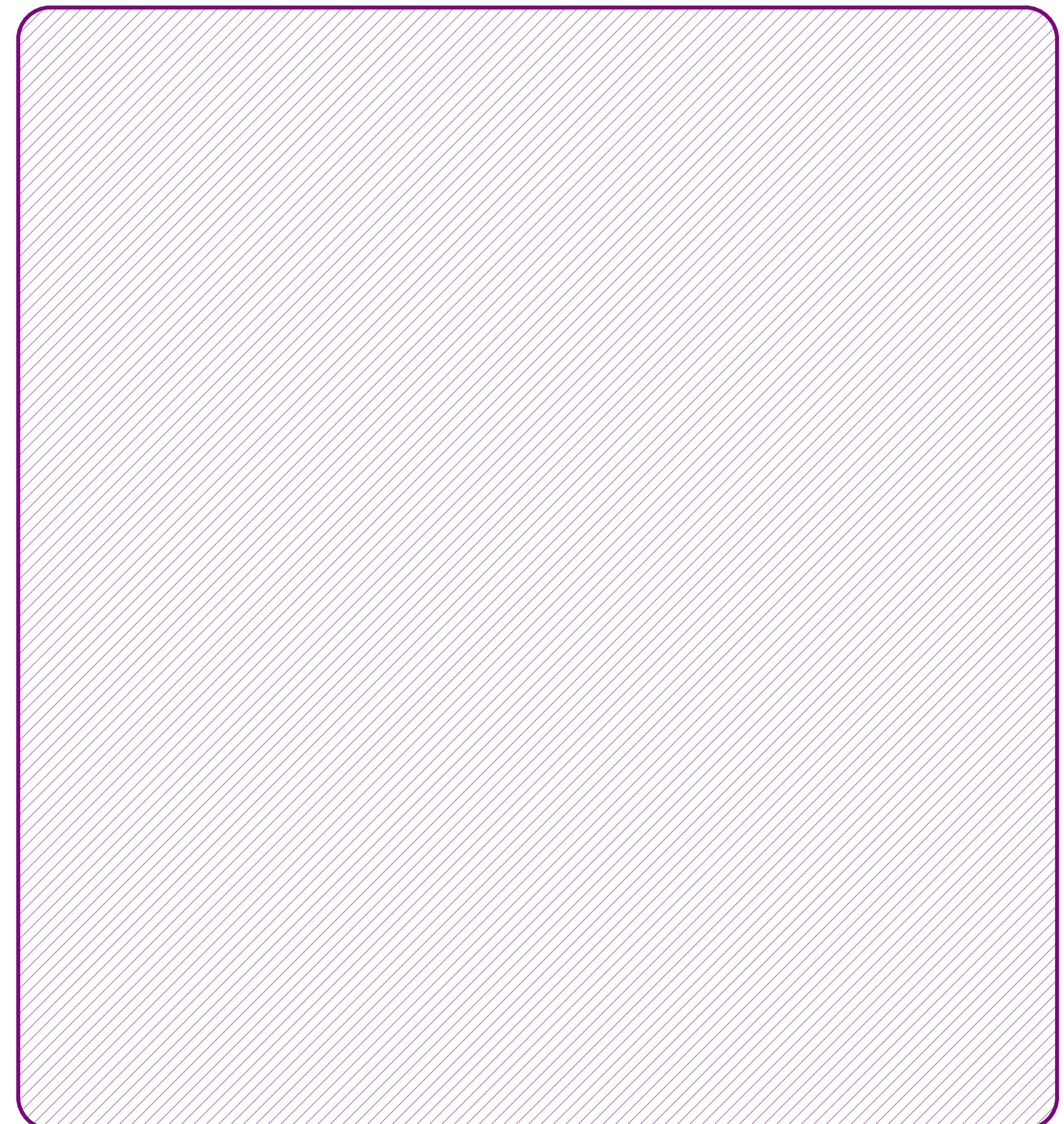
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Andrew Katz  
aakatz3@gmail.com  
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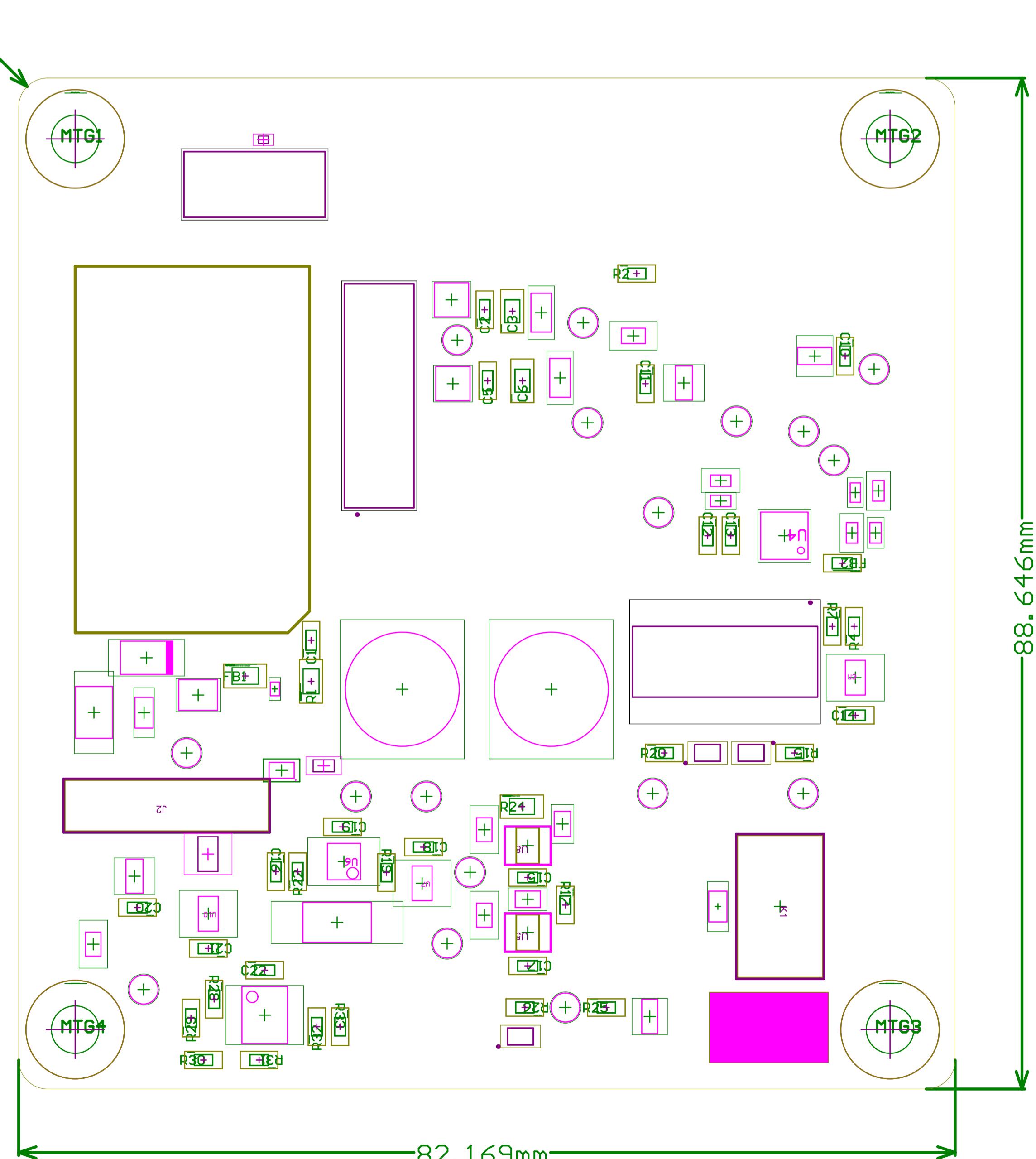
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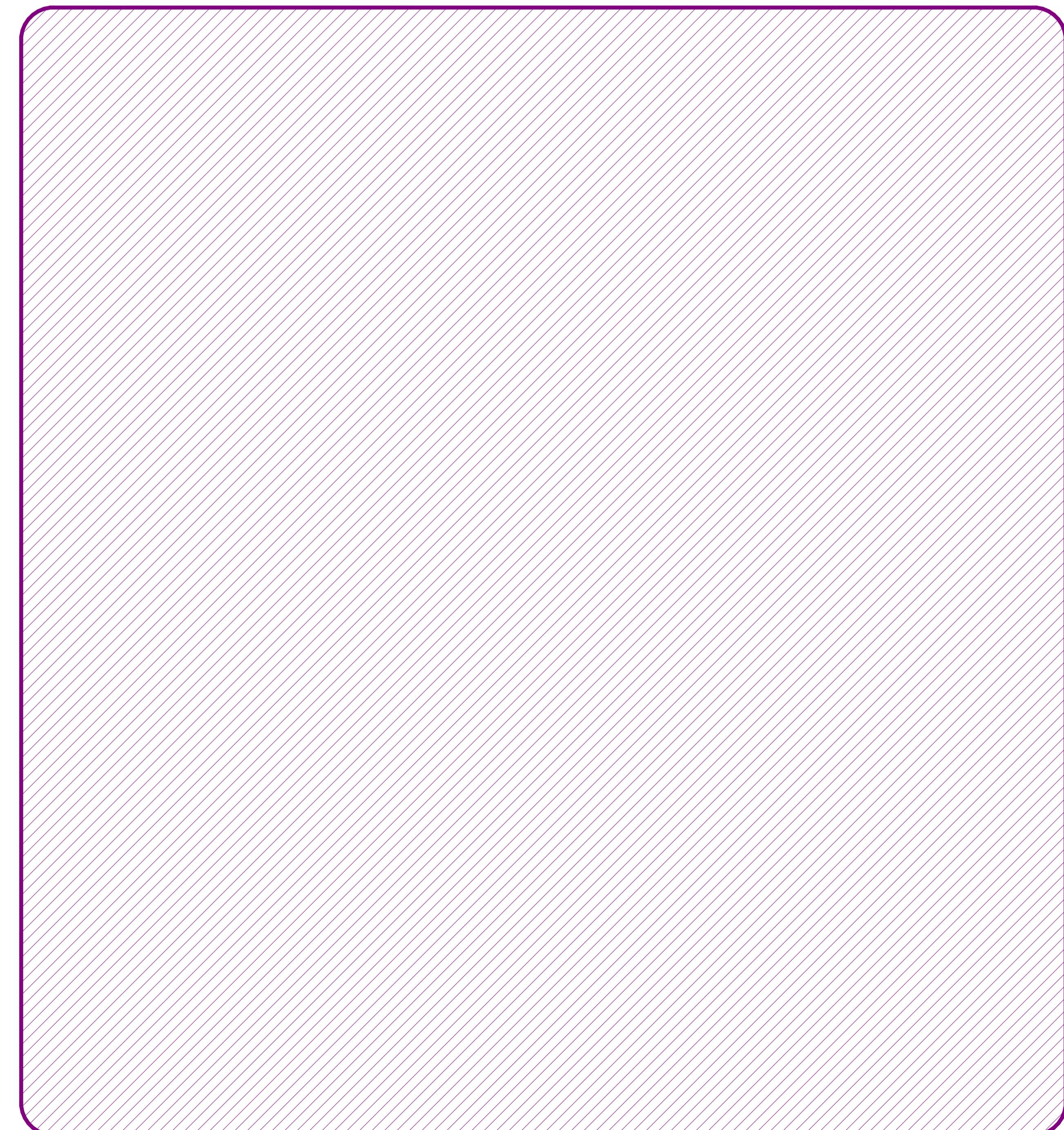
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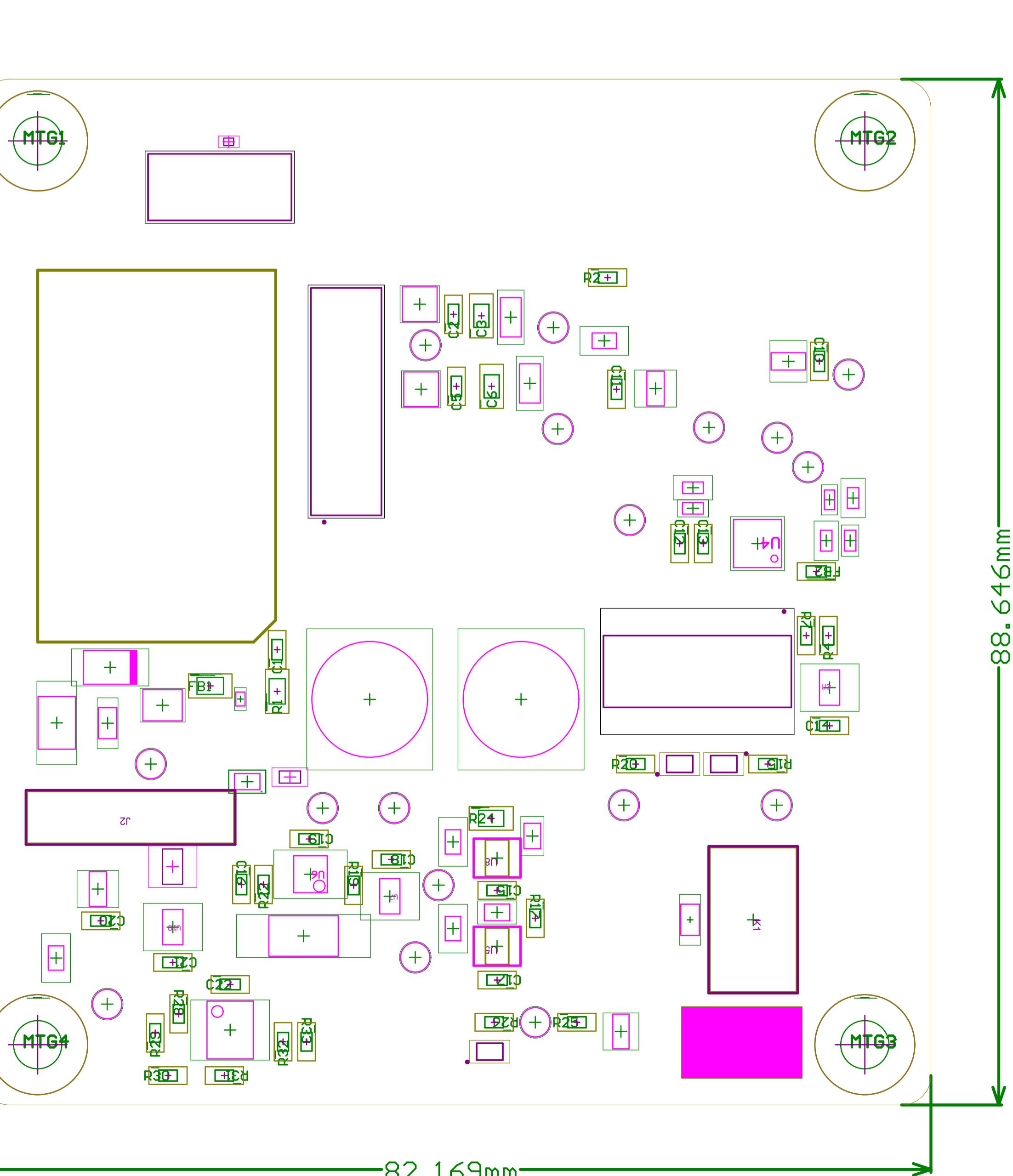
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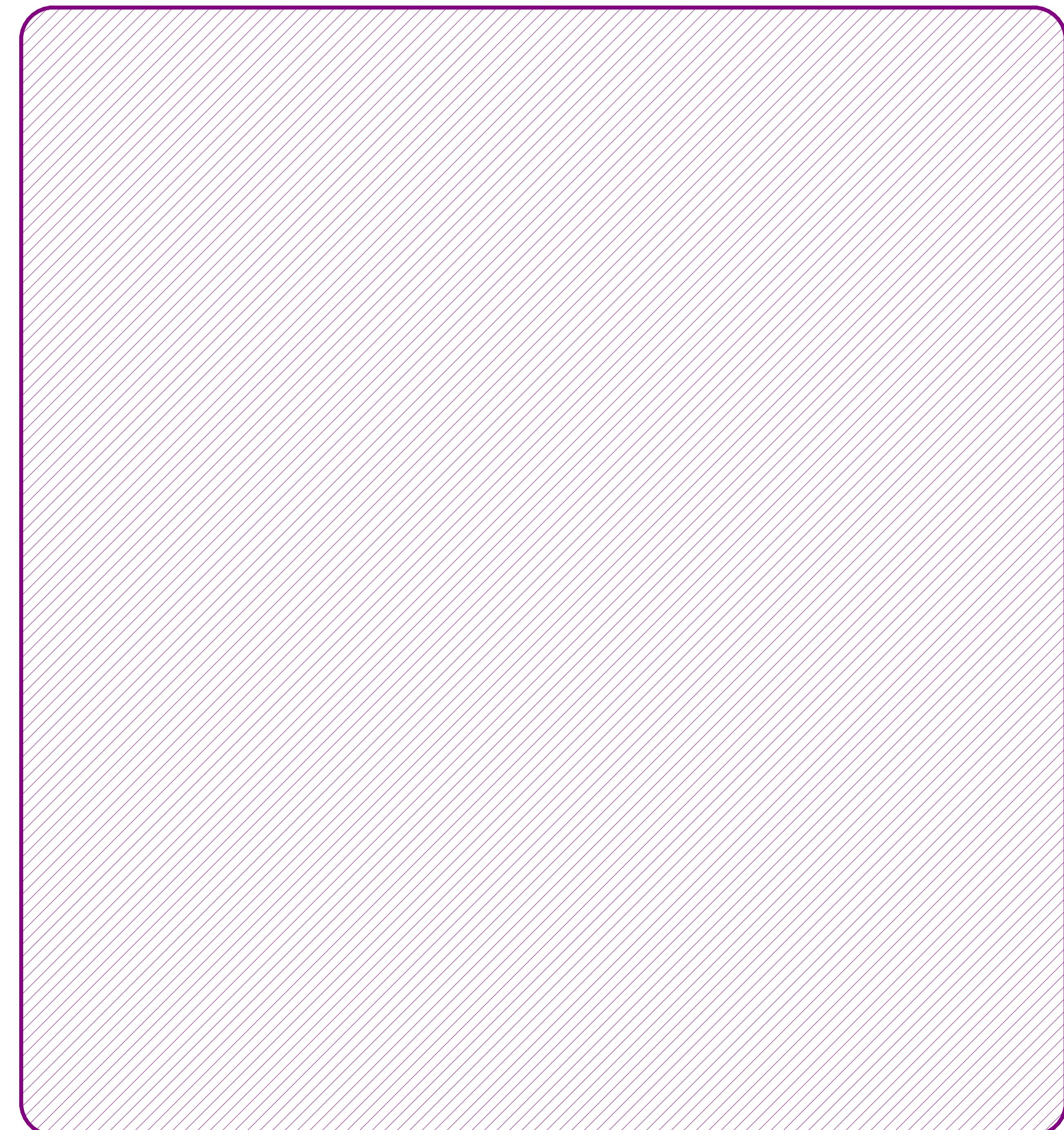
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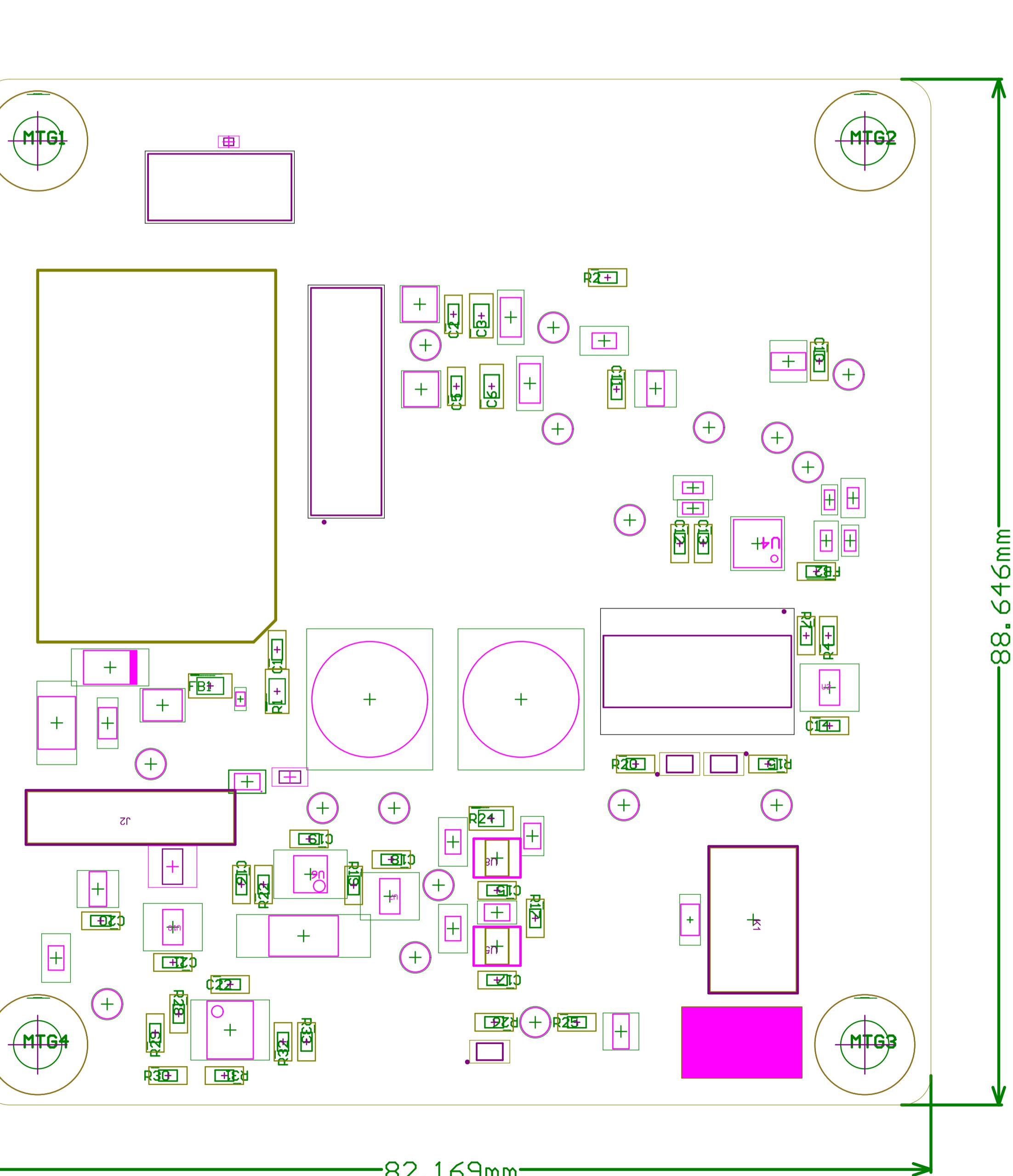
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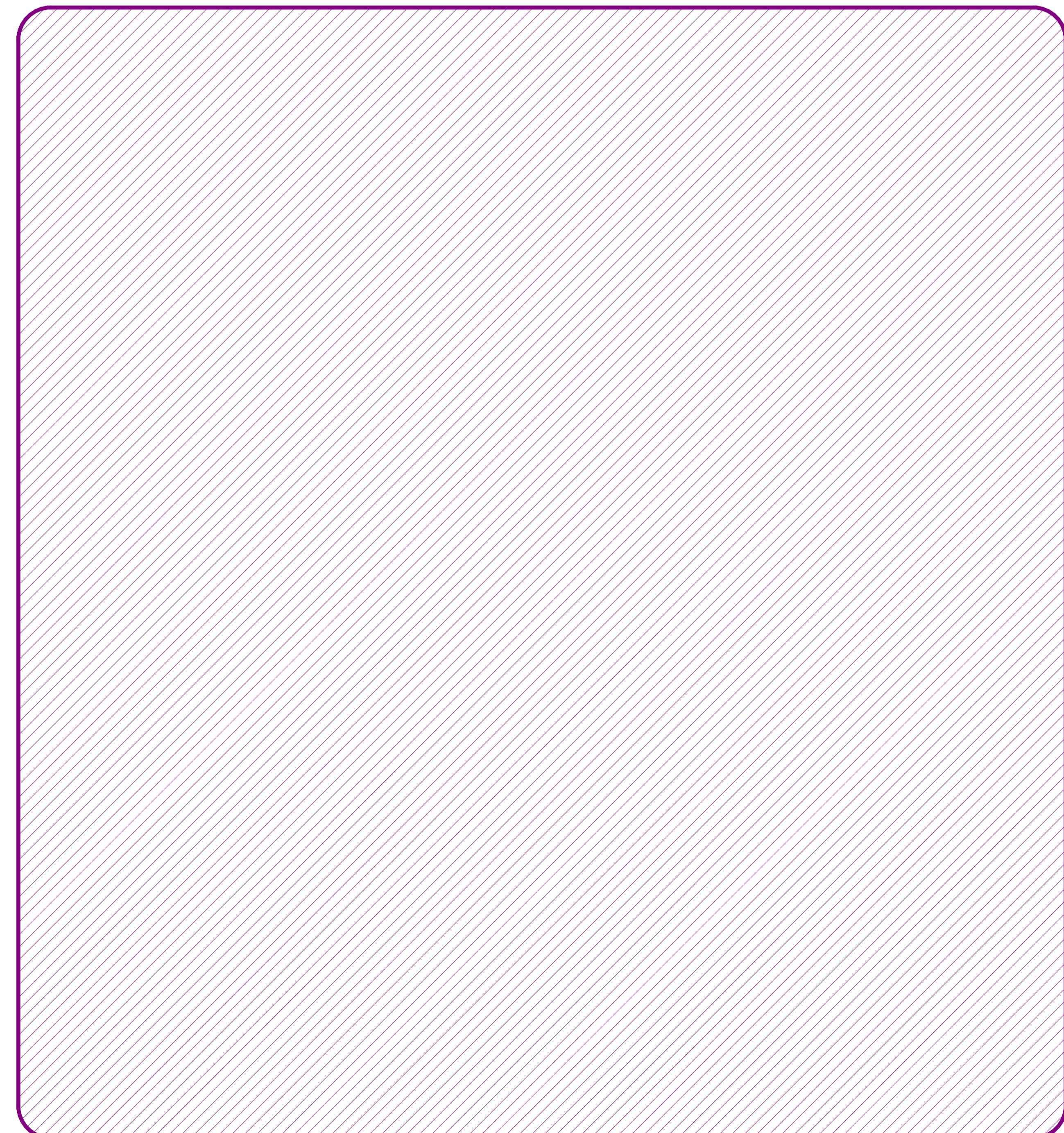
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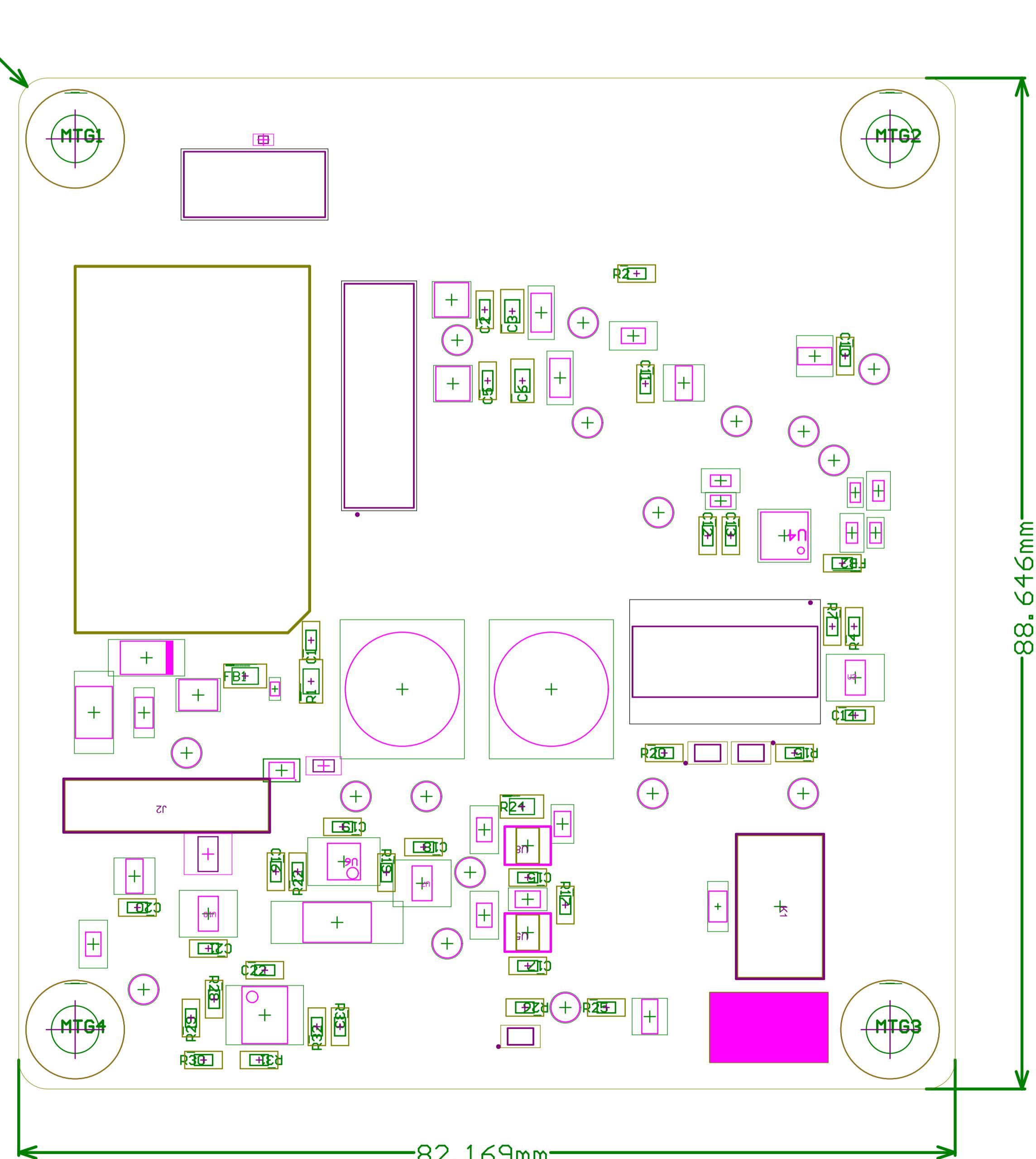
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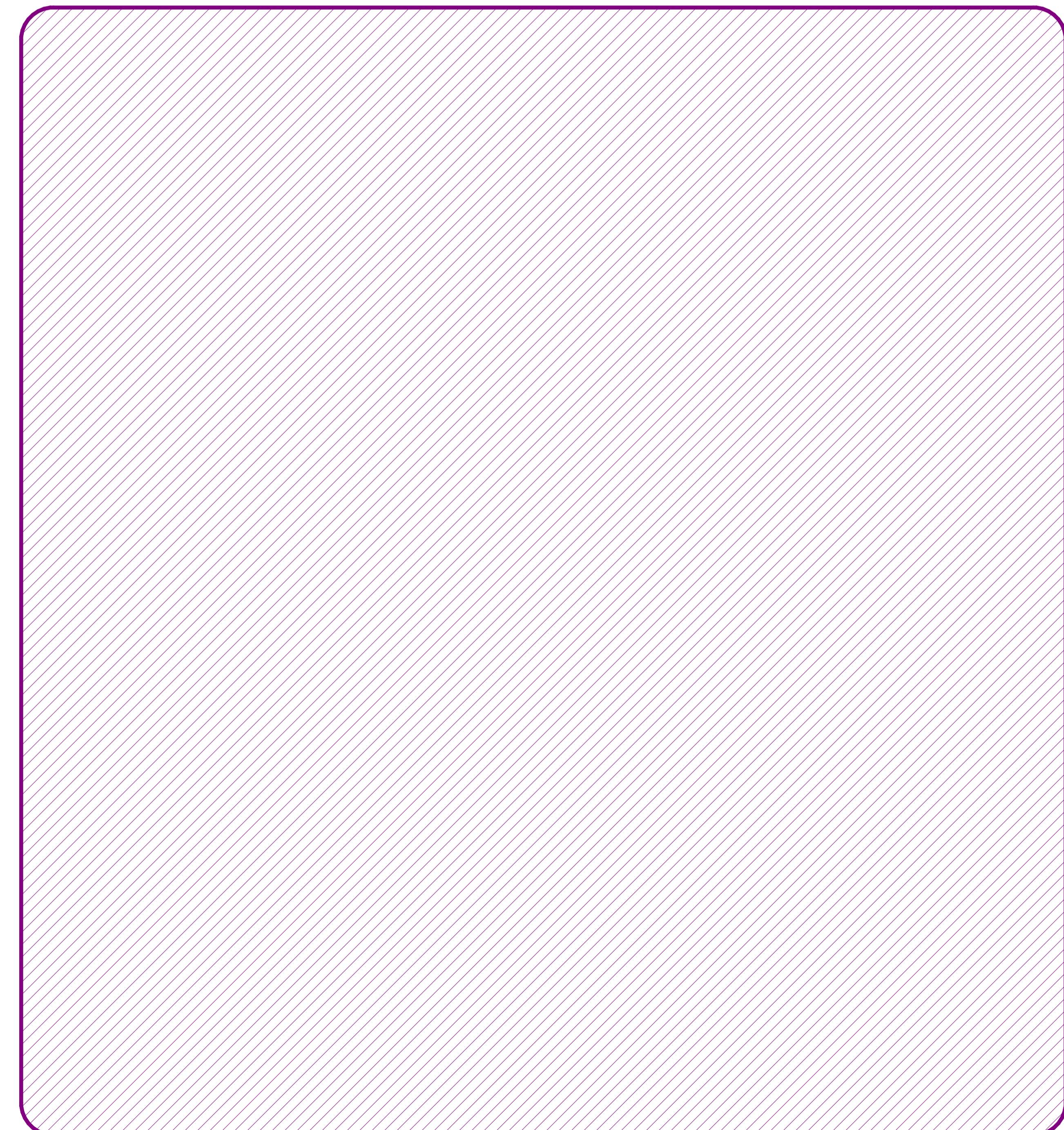
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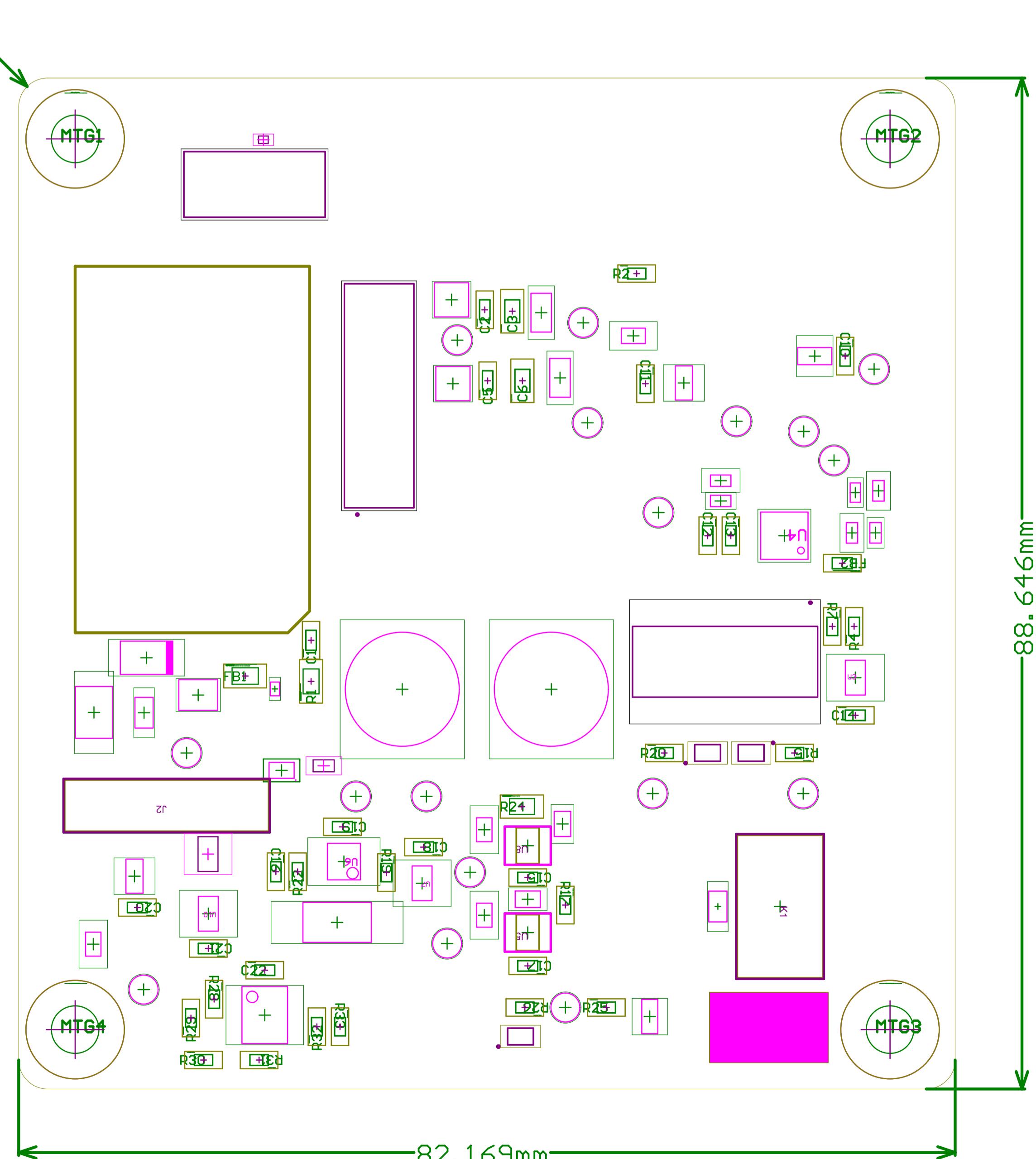
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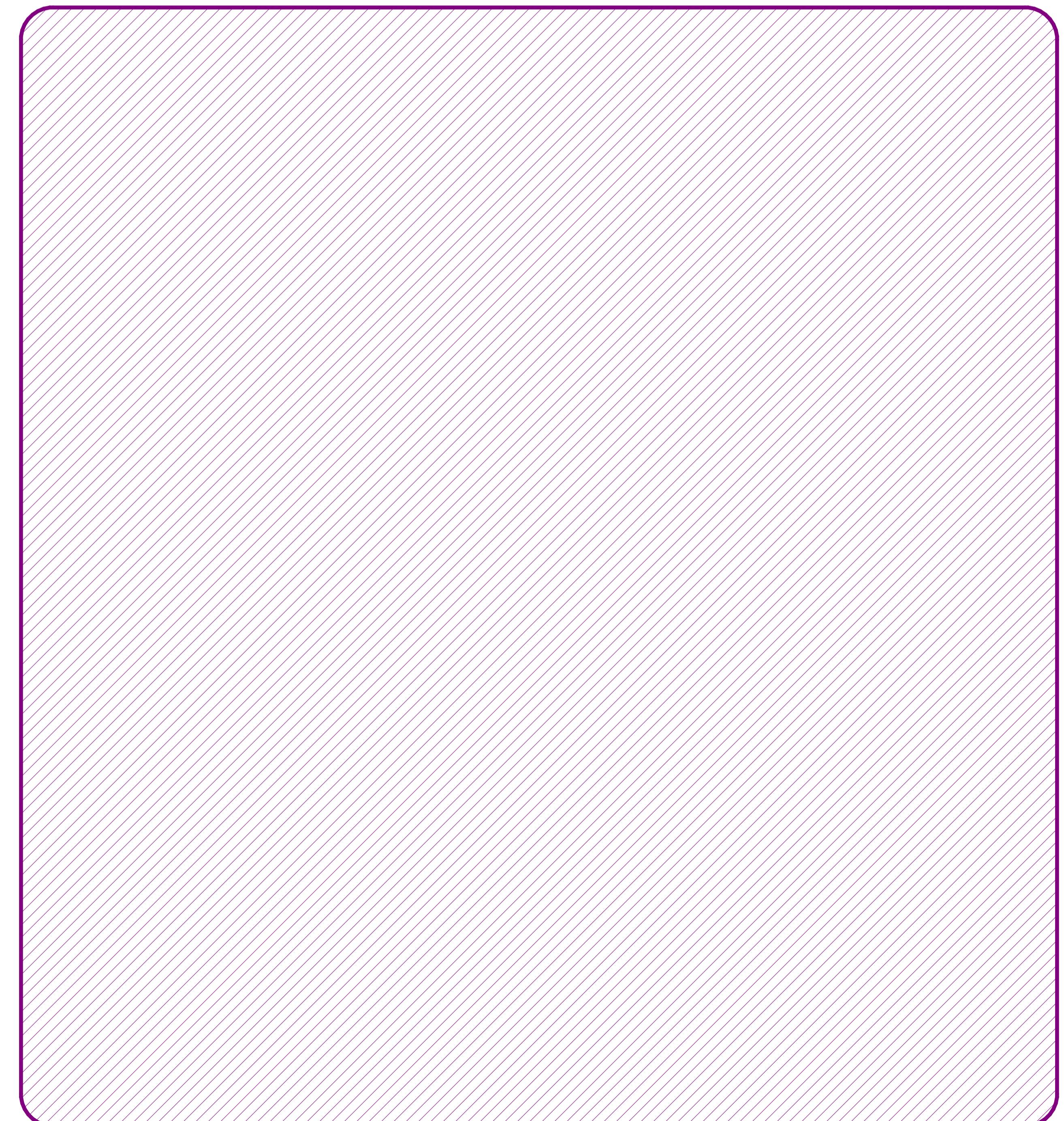
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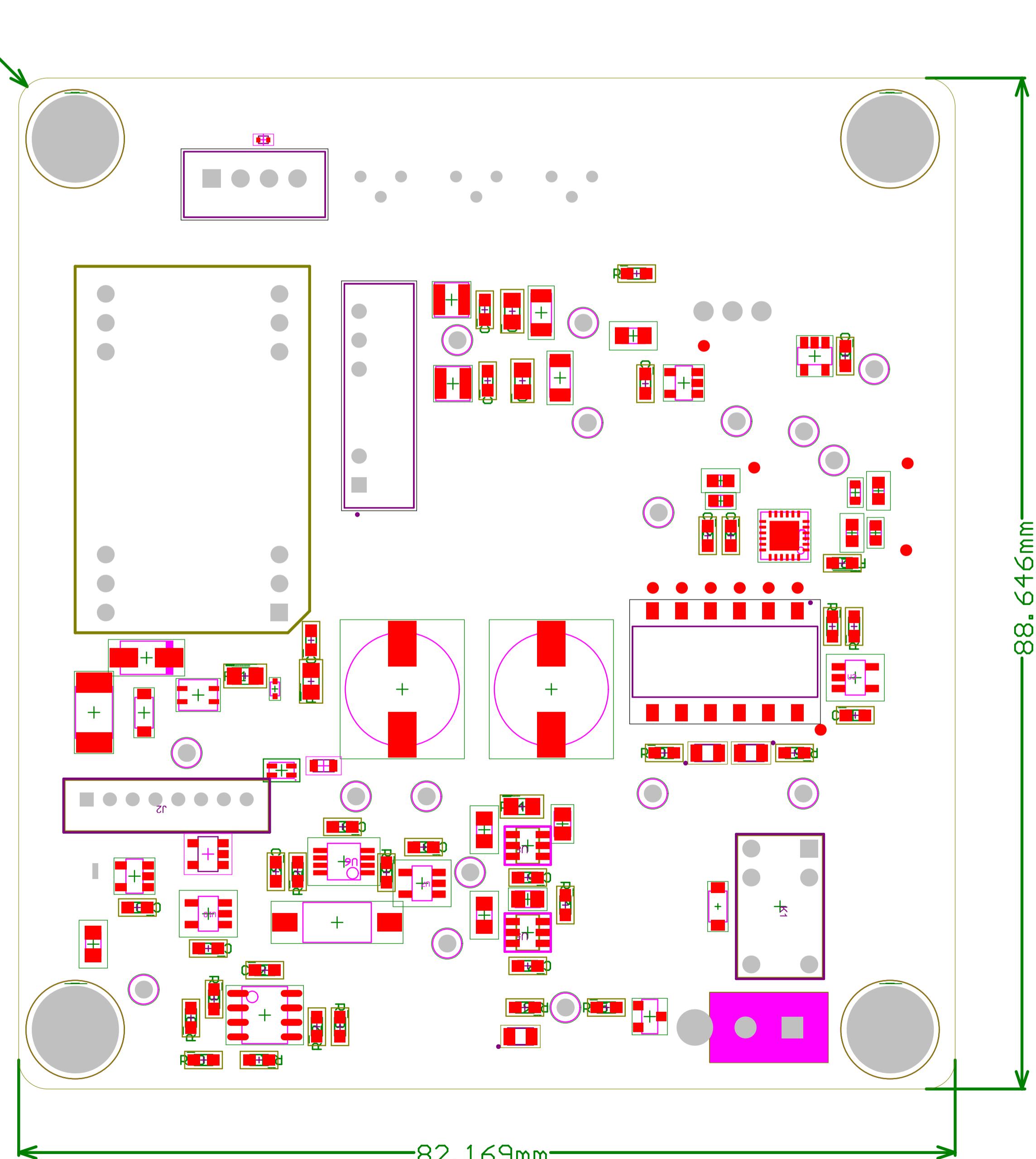
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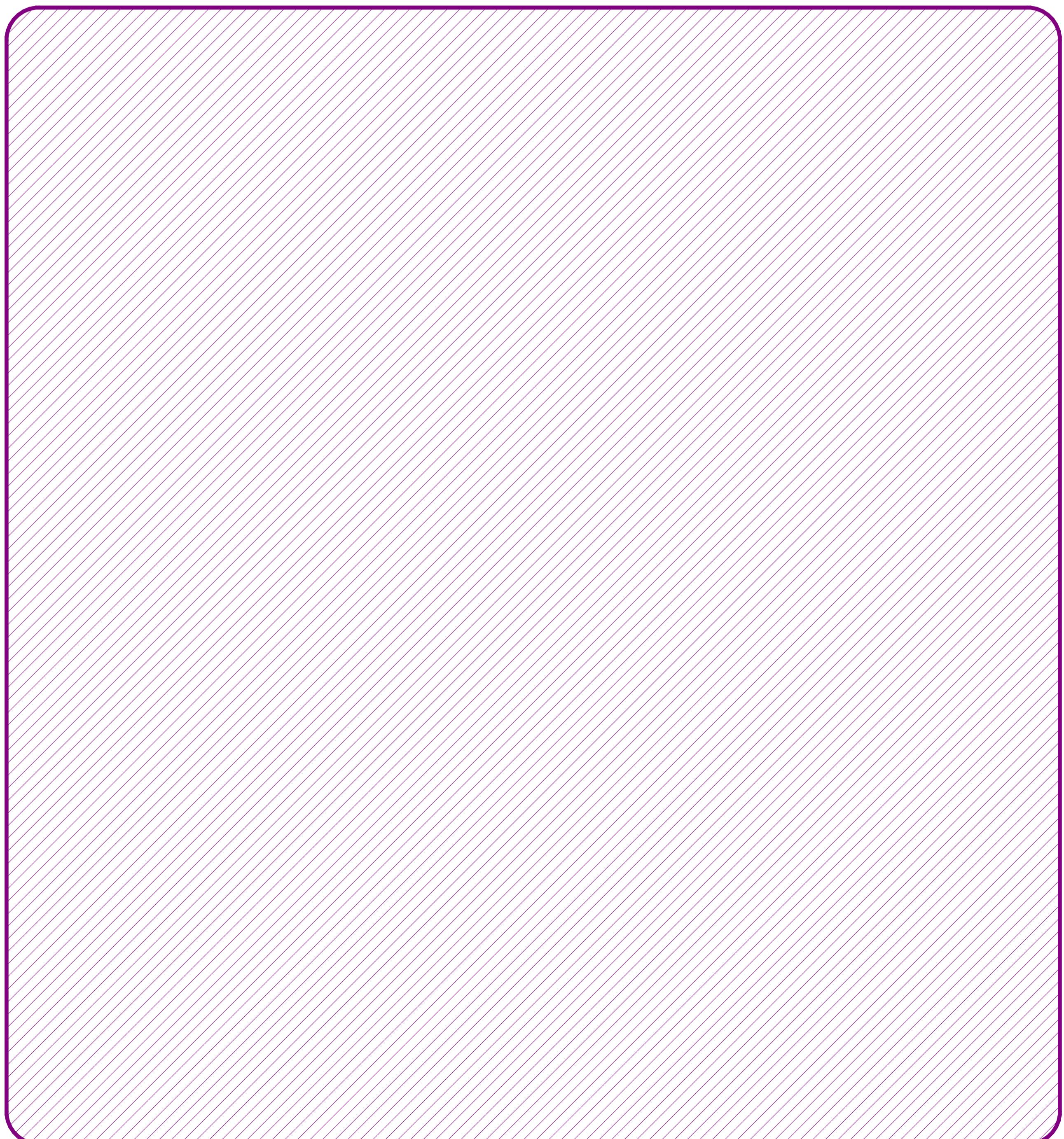
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	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
2	Bottom Layer	Copper	1.40mil		GBL	
	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil



Title: BSPD	Designer: Andrew Katz aakatz3@gmail.com
Size: Letter	Number:
Date: 3/2/2020	Revision:
Time: 12:50:42 AM	Sheet 1 of 1
File: UVM AERO BSPD.PcbDoc	*

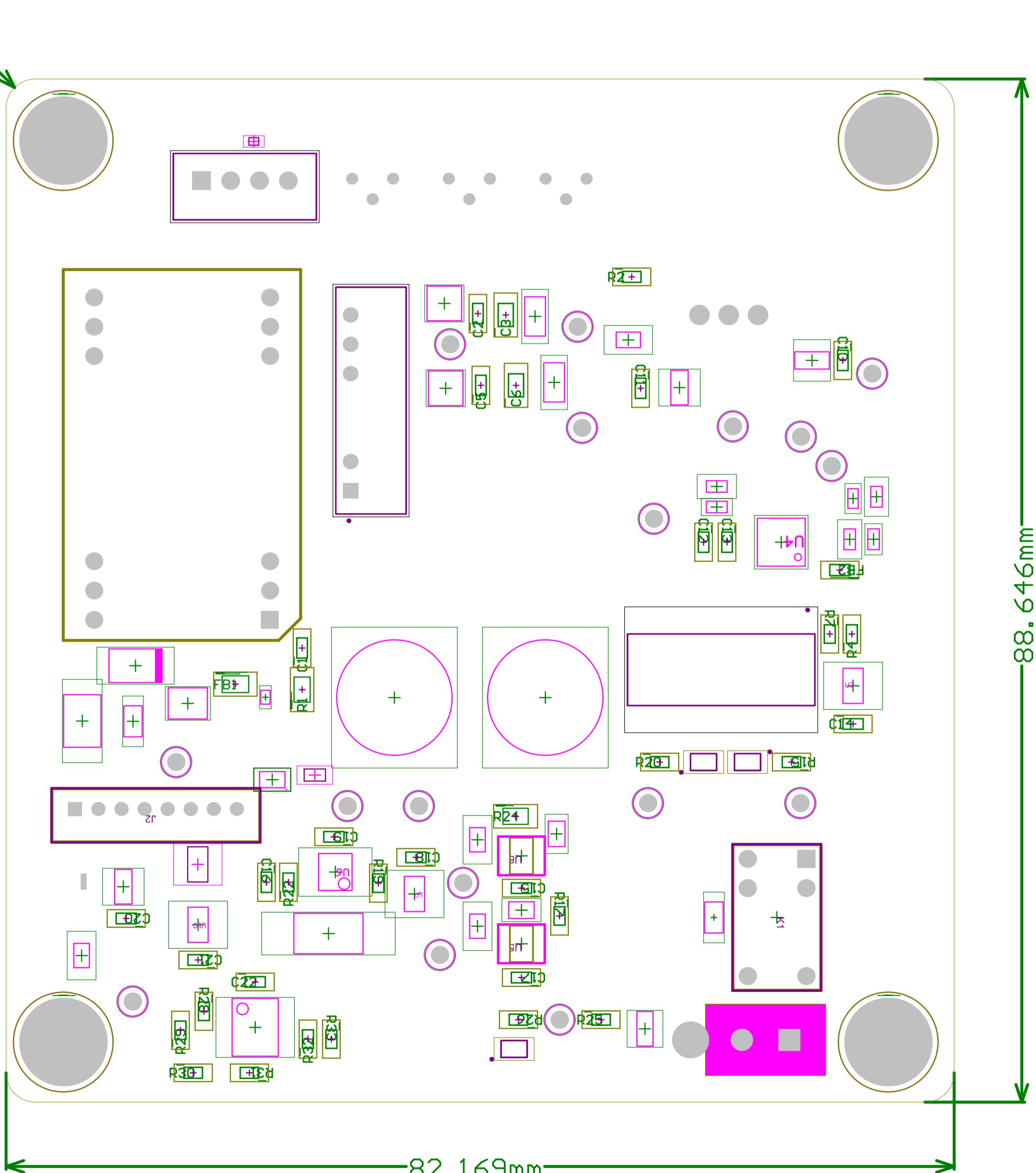
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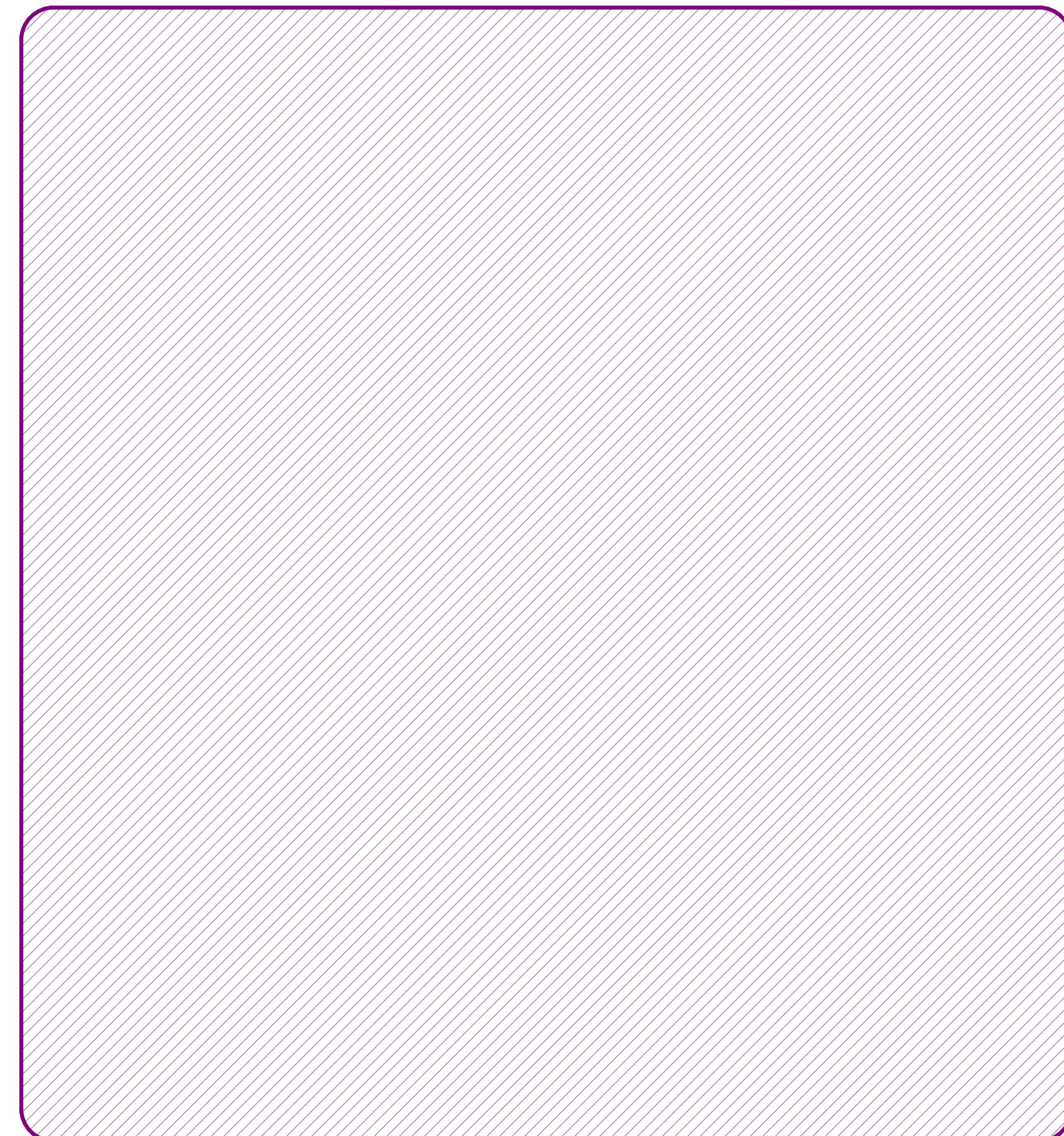
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D



Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
2	Bottom Layer	Copper	1.40mil		GBL	
	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil



Title: BSPD	Designer: Andrew Katz aakatz3@gmail.com
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**AERO**

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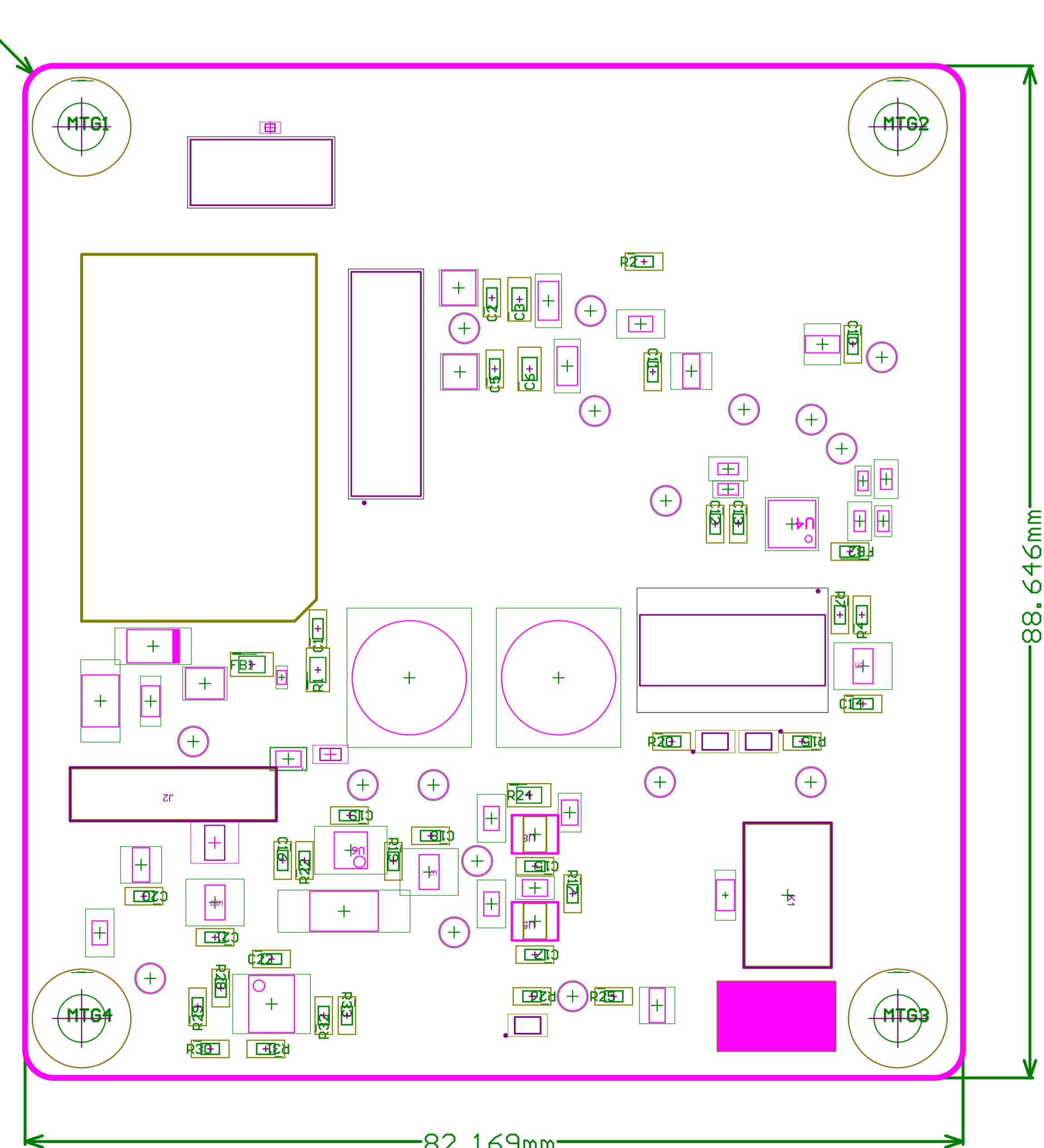
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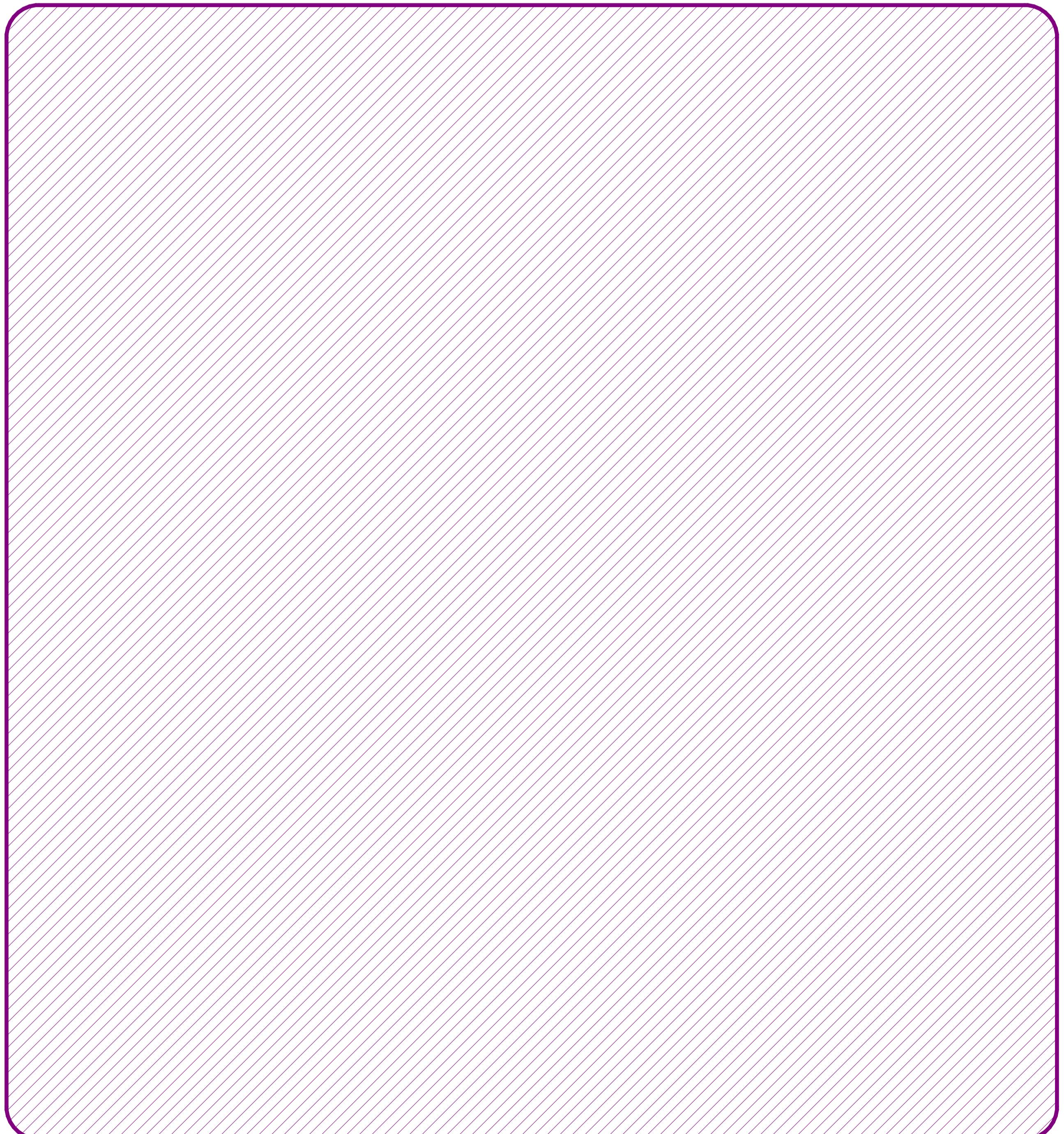
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
2	Bottom Layer	Copper	1.40mil		GBL	
	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil

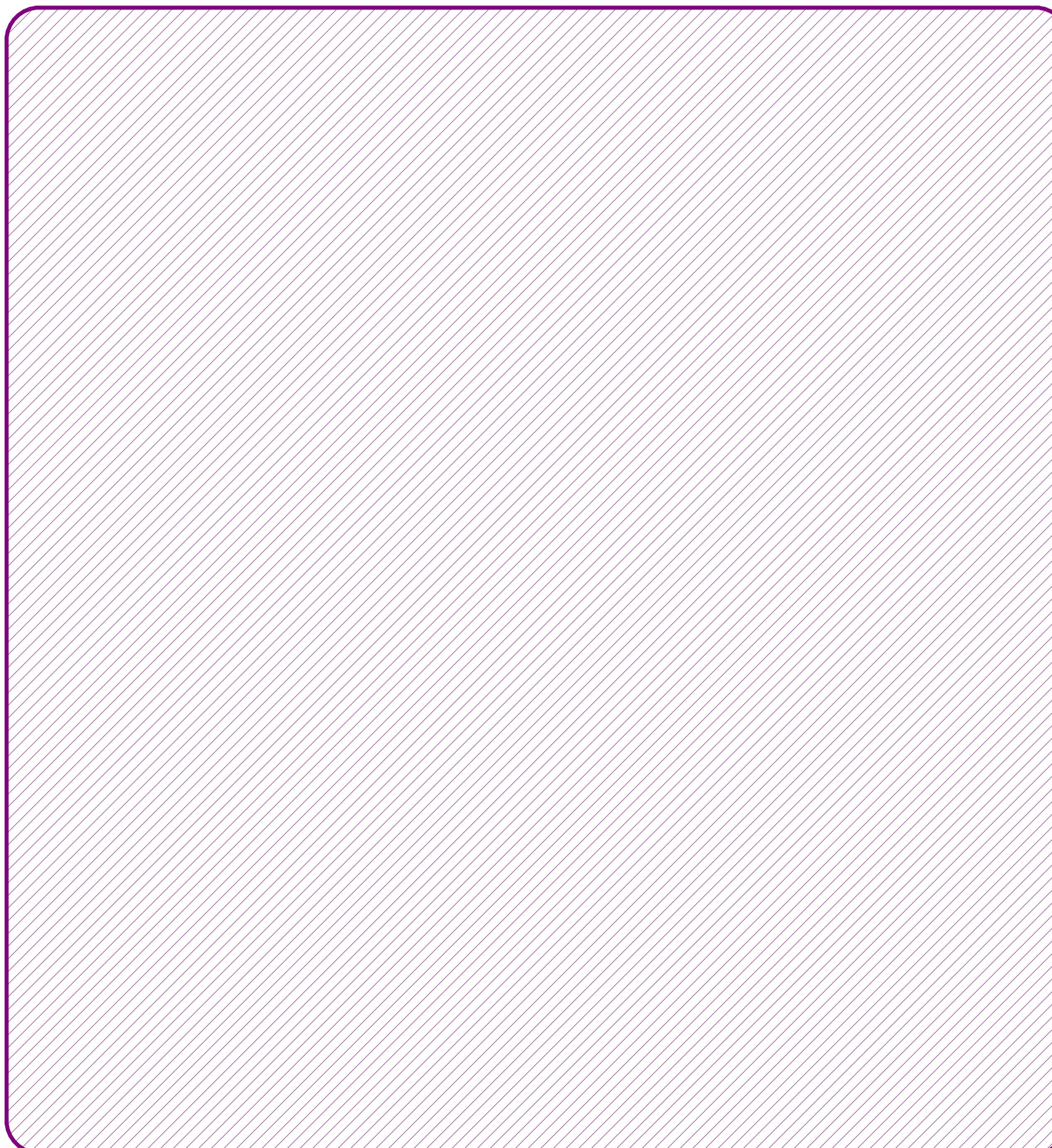
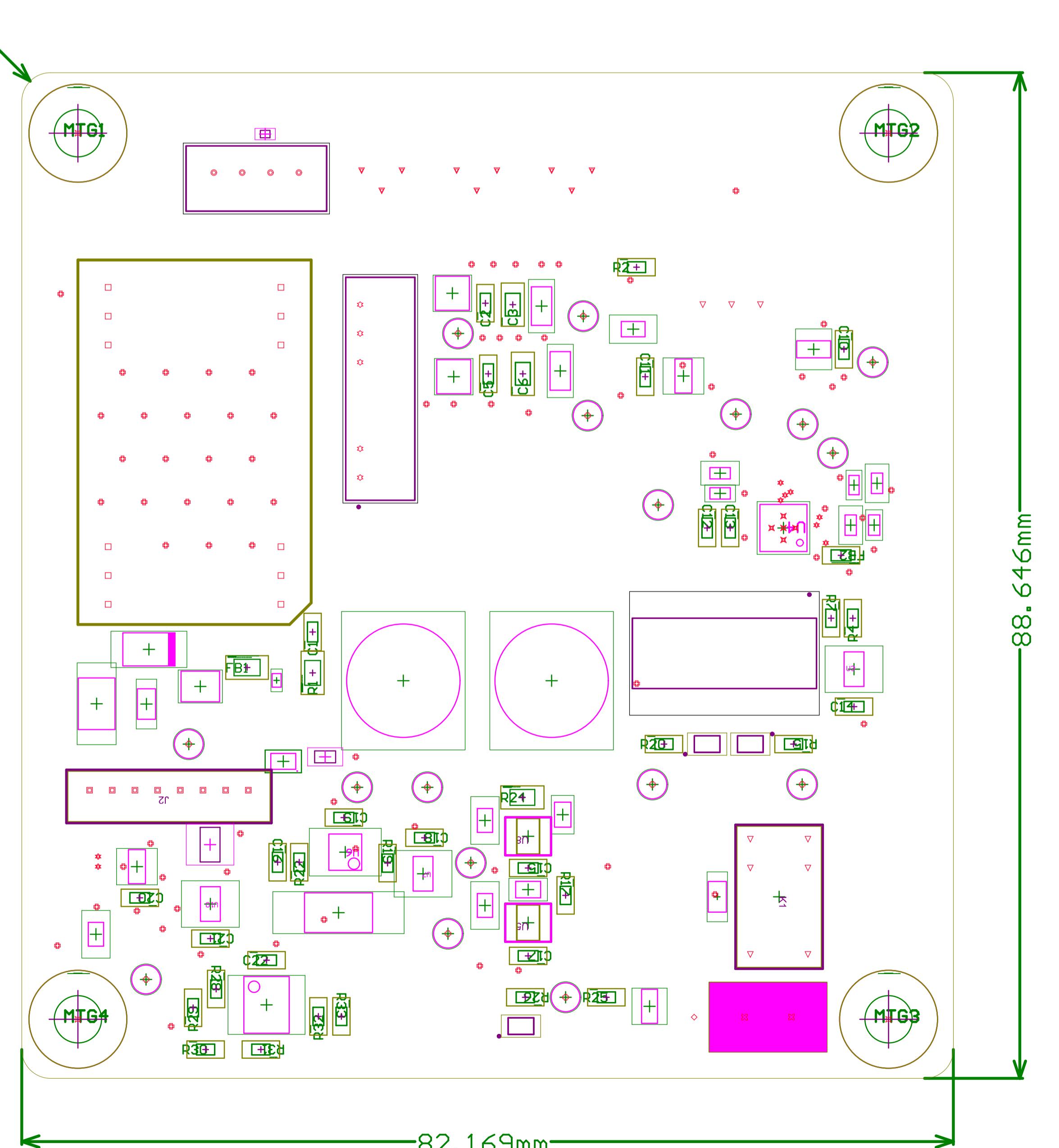


Title	BSPD	Designer:	Andrew Katz
Size:	Letter	Number:	aakatz3@gmail.com
Date:	3/2/2020	Revision:	*
Time:	12:50:42 AM	Sheet 1 of 1	*
File:	UVM AERO BSPD.PcbDoc		AERO

Symbol	Count	Hole Size	Plated	Hole Type	Via/Pad	Pad Shape	Template
◇	1	125.00mil (3.175mm)	NPTH	Round	Pad	Rounded	c318hn318m0mx0
☒	2	55.00mil (1.397mm)	PTH	Round	Pad	(Mixed)	(Mixed)
○	4	41.73mil (1.060mm)	PTH	Round	Pad	(Mixed)	(Mixed)
☒	4	142.00mil (3.607mm)	PTH	Round	Pad	Rounded	c762h361
☒	5	7.87mil (0.200mm)	PTH	Round	Via	Rounded	v50h20
☒	5	32.28mil (0.820mm)	PTH	Round	Pad	(Mixed)	(Mixed)
□	8	27.56mil (0.700mm)	PTH	Round	Pad	(Mixed)	(Mixed)
☒	9	9.00mil (0.229mm)	PTH	Round	(Mixed)	(Mixed)	(Mixed)
▽	9	20.00mil (0.508mm)	PTH	Round	Pad	Rounded	c102h51p25502
▽	9	39.37mil (1.000mm)	PTH	Round	Pad	(Mixed)	(Mixed)
□	12	30.00mil (0.762mm)	PTH	Round	Pad	(Mixed)	(Mixed)
✚	17	40.00mil (1.016mm)	PTH	Round	Pad	Rounded	c155h102
☒	79	15.00mil (0.381mm)	PTH	Round	Via	Rounded	v76h38
164 Total							

Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
2	Bottom Layer	Copper	1.40mil		GBL	
	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil

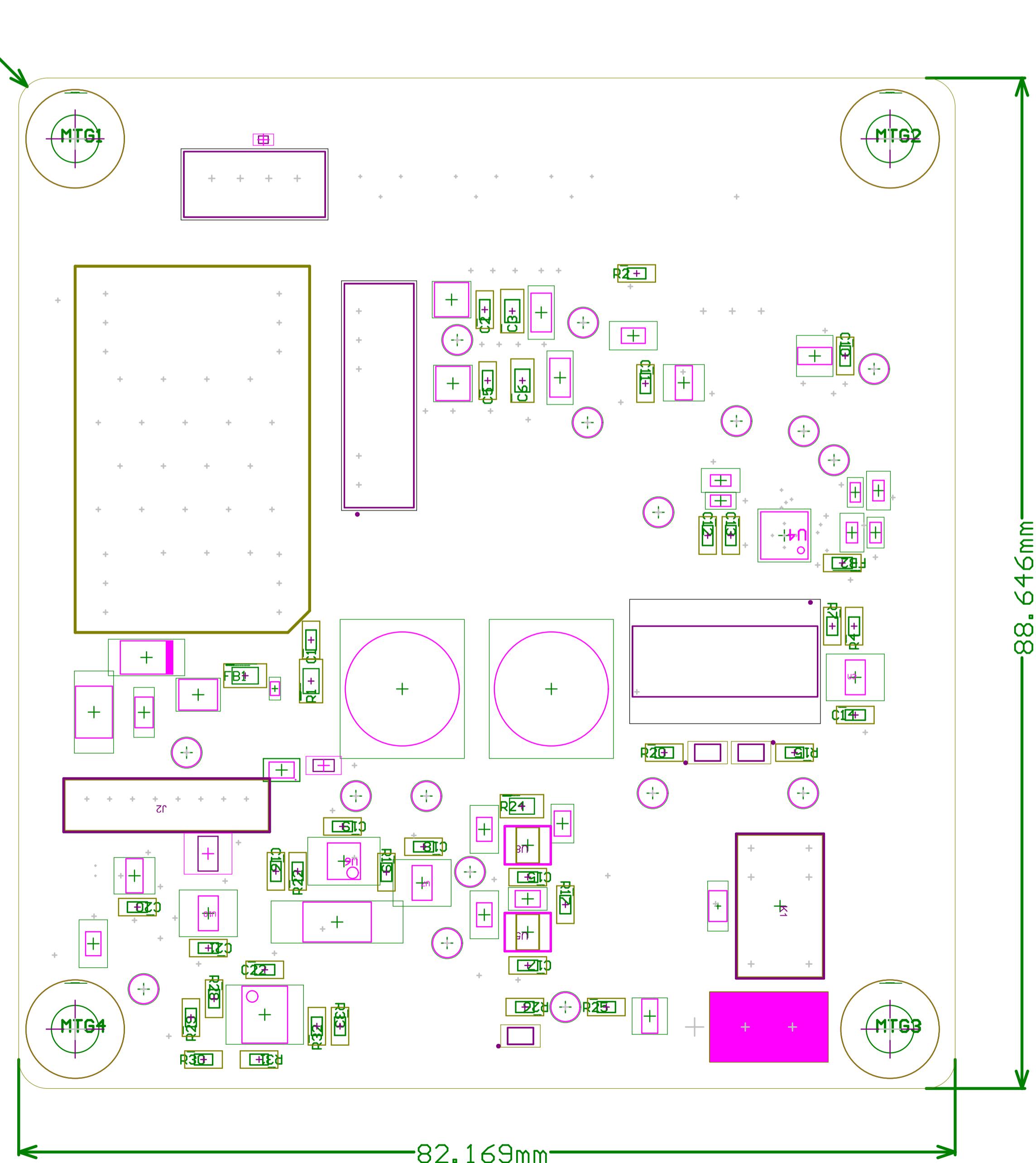


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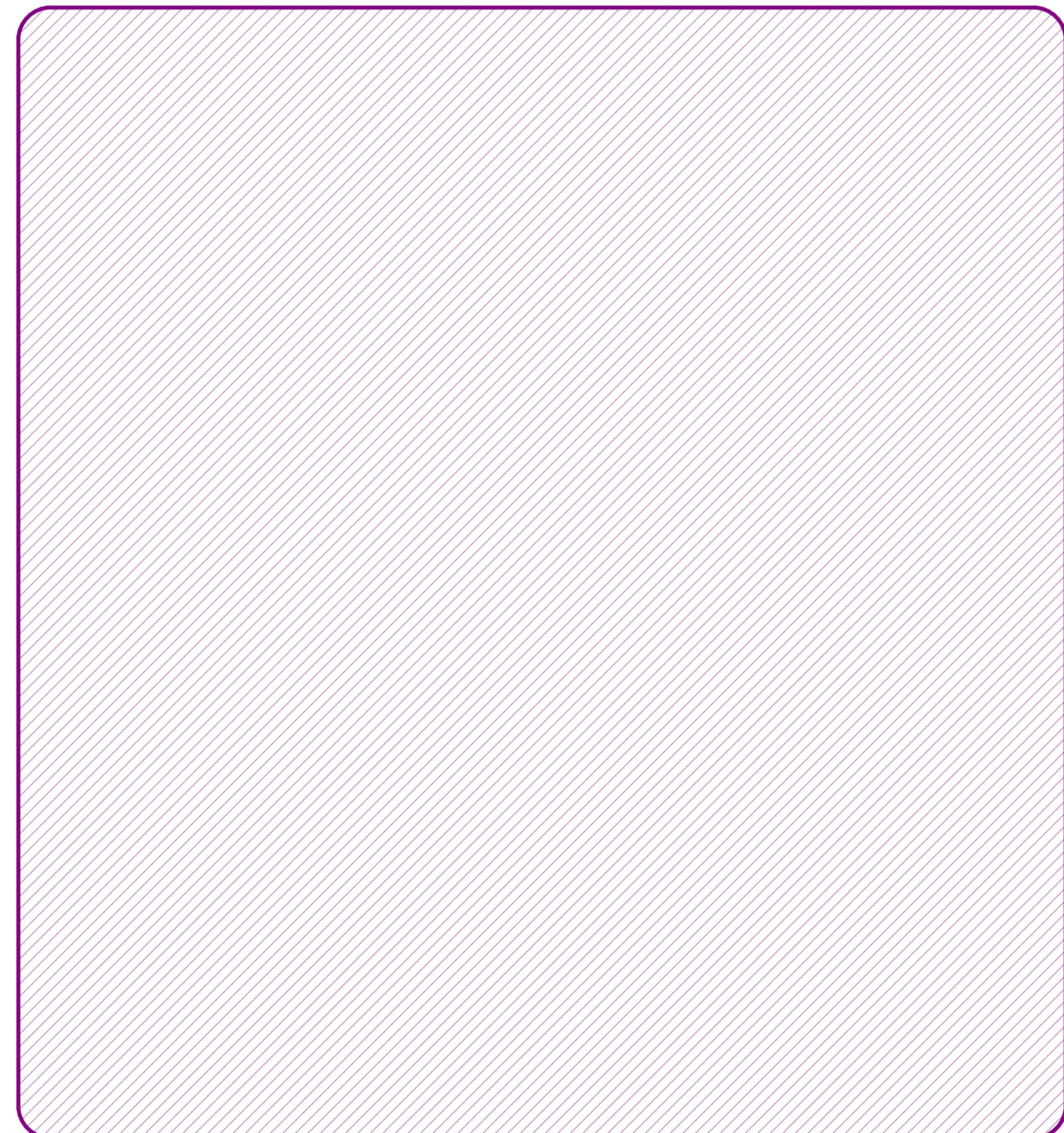
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Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
2	Bottom Layer	Copper	1.40mil		GBL	
	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil



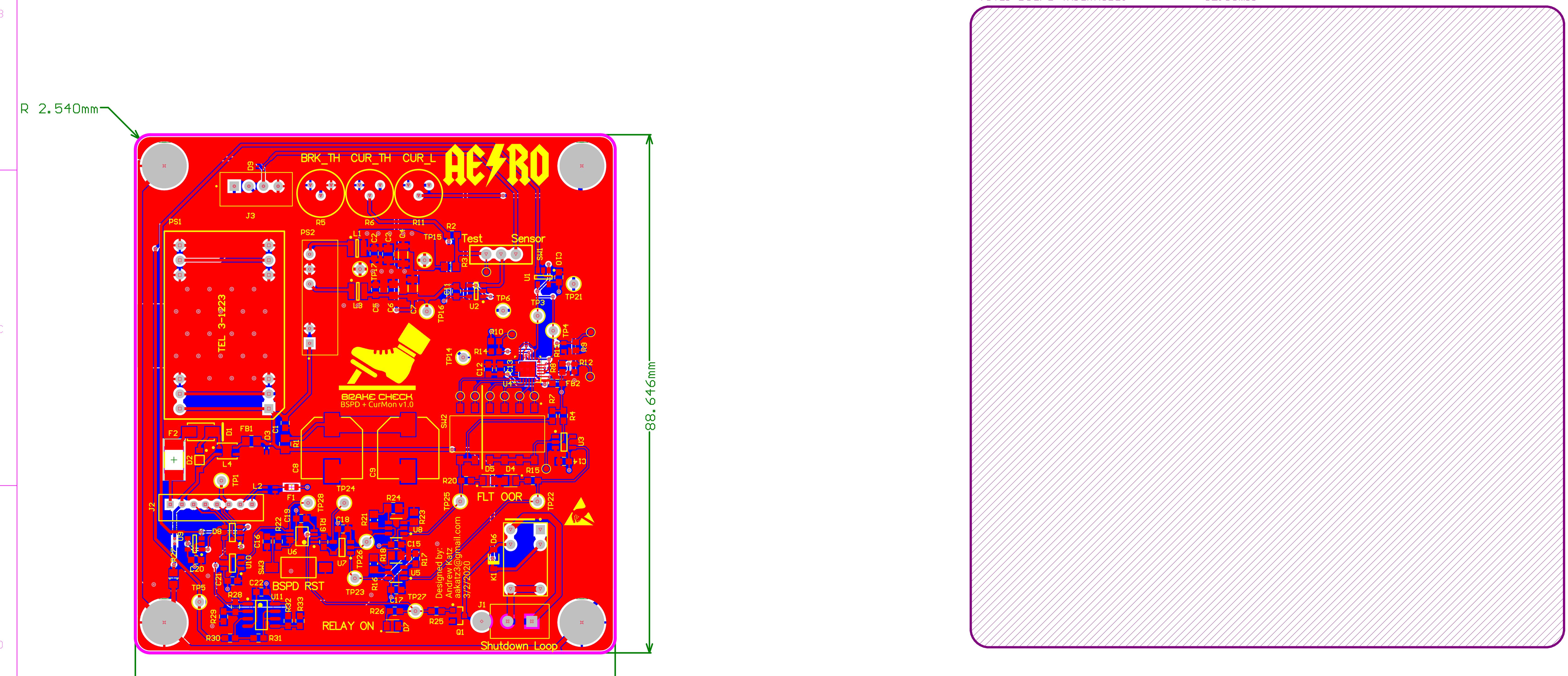
Title: BSPD	Designer: Andrew Katz aakatz3@gmail.com
Size: Letter	Number:
Date: 3/2/2020	Revision:
Time: 12:50:42 AM	Sheet 1 of 1
File: UVM AERO BSPD.PcbDoc	*

**AERO**

Symbol	Count	Hole Size	Plated	Hole Type	Via/Pad	Pad Shape	Template
◊	1	125.00mil (3.175mm)	NPTH	Round	Pad	Rounded	c318hn318m0mx0
☒	2	55.00mil (1.397mm)	PTH	Round	Pad	(Mixed)	(Mixed)
○	4	41.73mil (1.060mm)	PTH	Round	Pad	(Mixed)	(Mixed)
☒	4	142.00mil (3.607mm)	PTH	Round	Pad	Rounded	c762h361
☒	5	7.87mil (0.200mm)	PTH	Round	Via	Rounded	v50h20
☒	5	32.28mil (0.820mm)	PTH	Round	Pad	(Mixed)	(Mixed)
□	8	27.56mil (0.700mm)	PTH	Round	Pad	(Mixed)	(Mixed)
☒	9	9.00mil (0.229mm)	PTH	Round	(Mixed)	(Mixed)	(Mixed)
▽	9	20.00mil (0.508mm)	PTH	Round	Pad	Rounded	c102h51p25502
▽	9	39.37mil (1.000mm)	PTH	Round	Pad	(Mixed)	(Mixed)
□	12	30.00mil (0.762mm)	PTH	Round	Pad	(Mixed)	(Mixed)
✚	17	40.00mil (1.016mm)	PTH	Round	Pad	Rounded	c155h102
☒	79	15.00mil (0.381mm)	PTH	Round	Via	Rounded	v76h38
164 Total							

Layer	Name	Material	Thickness	Constant	Gerber	Board Layer Stack
	Top Overlay				GTO	
	Top Solder	SM-001	1.00mil	4	GTS	
1	Top Layer	Copper	1.40mil		GTL	
	Dielectric 1	FR-4	58.00mil	4.2		
2	Bottom Layer	Copper	1.40mil		GBL	
	Bottom Solder	SM-001	1.00mil	4	GBS	
	Bottom Overlay				GBO	

Total board thickness: 62.80mil



Title: <b>BSPD</b>			Designer: Andrew Katz aakatz3@gmail.com
Size: Letter	Number:	Revision:	*
Date: 3/2/2020	Time: 12:50:42 AM	Sheet 1 of 1	*
File: UVM_AERO_BSPD.PcbDoc			

**ACERO**