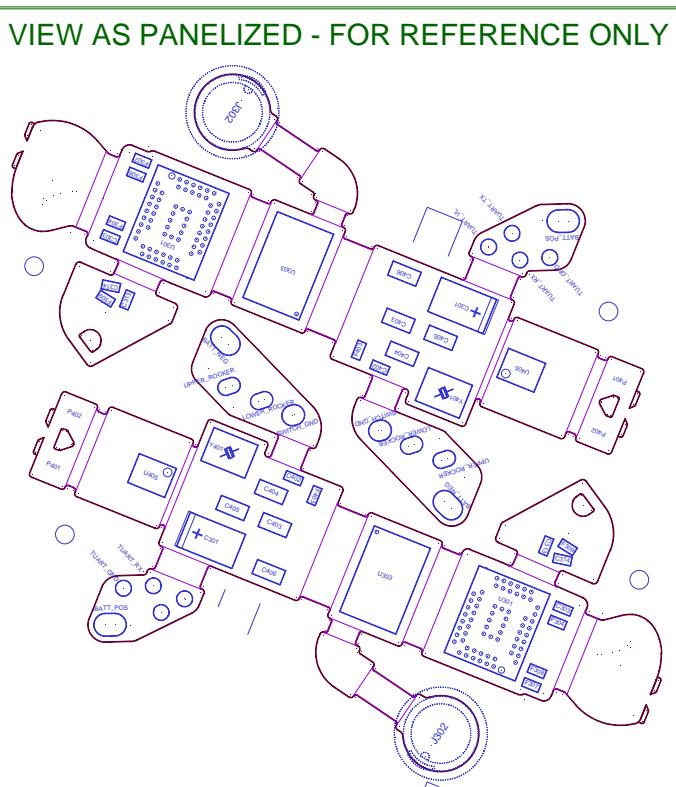
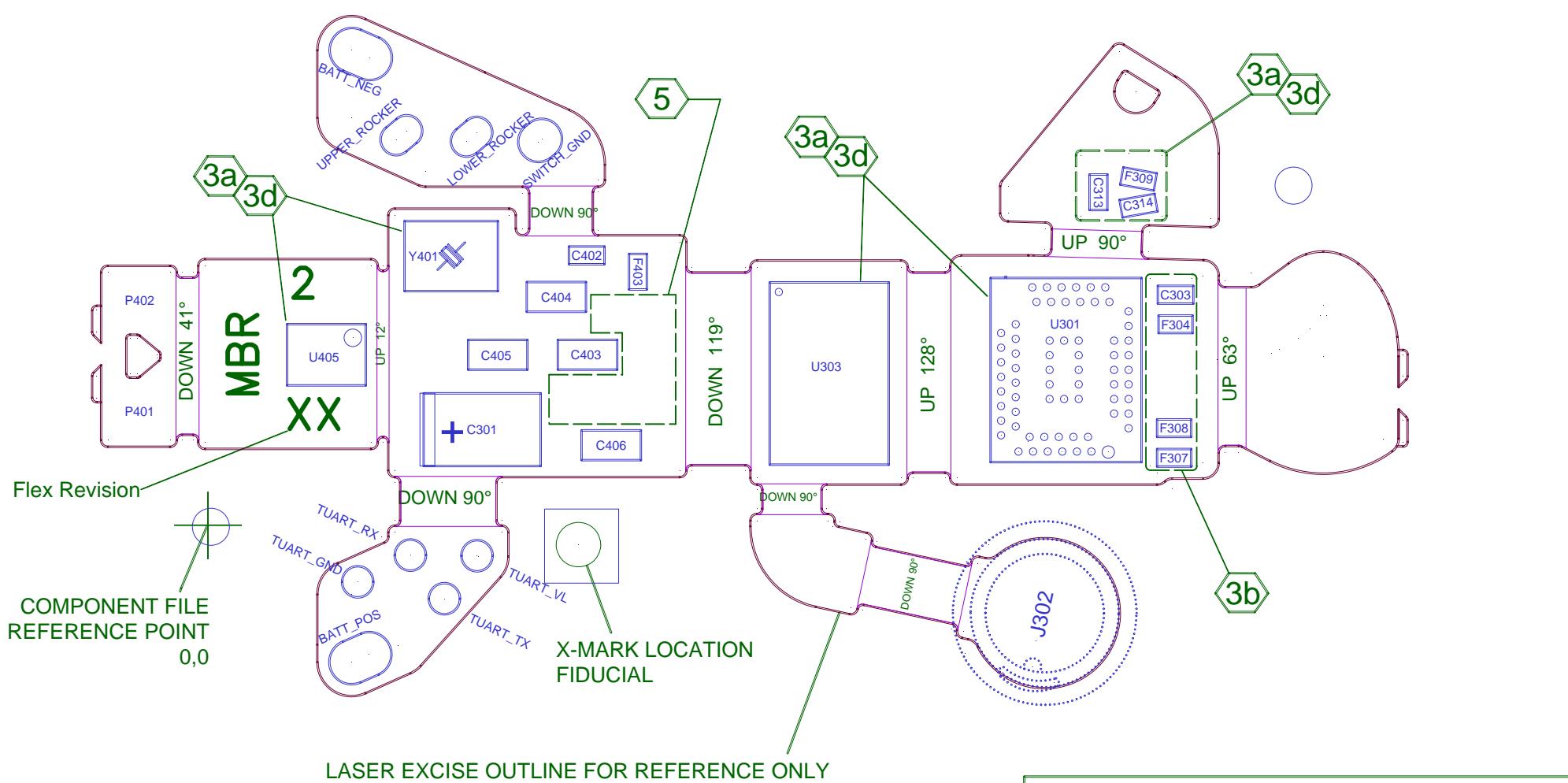


# TOP VIEW



REVISIONS		CHANGE DESCRIPTION		DOC	RLSD DATE
REV 02	ECO MN48913	Removed C331, L415 now DNP, new bd outline		TB	5-17-16
REV 03	ECO MN50406	Added F309 to MIC arm, rotated C314		DP	11-18-16

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Sheet 01 Assembly Top  
Sheet 02 Flux Top  
Sheet 03 Stencil Top  
Sheet 04 Assembly Bottom  
Sheet 05 Stencil Bottom  
Sheet 06 Flux Bottom

LASER EXCISE SPECIFICATIONS:  
Page 7 Excise Gerber  
Page 8 Excise Quality and Packaging

1. SEE 53258-940 FOR SCHEMATIC.  
2. INDIVIDUAL LAYERS AND GERBER  
FILES ARE DETAILED ON SUBSEQUENT PAGES. ACTUAL GERBER  
FILES ARE HELD IN DOCUMENTATION SERVICES. GERBER FILES  
ARE IN A ZIPPED FILE WITH THE SAME PART NUMBER AND  
REV AS THE DOCUMENT EXCEPT WITH THE "ZIP" EXTENSION.

3. UNDERFILL AND RESIDUE SHALL BE KEPT OFF THE TOP SURFACE  
OF ALL USER PADS AND TPs. NO UNDERFILL IS ALLOWED IN  
BEND AREAS BUT MAY BE WIPE OFF. OTHER AREAS WITH NO  
INDICATOR HAVE NO RESTRICTIONS. SEE DOCS-19-2108 FOR  
UNDERFILL INSPECTION CRITERIA. NOT ALL CONDITIONS APPLY  
TO THIS DRAWING.

- a. REINFORCE COMPONENTS WITH UNDERFILL.
- b. PARTIAL UNDERFILL IS ALLOWED BUT NOT REQUIRED.
- c. UNDERFILL IS ALLOWED ON TOP.
- d. WIPE EXCESS UNDERFILL FROM TOP.
- e. COVER EXPOSED PADS WITH UNDERFILL.
- f. DO NOT COVER EXPOSED PADS WITH UNDERFILL.
- g. UNDERFILL IS NOT ALLOWED.

4. DNP DETAILS:

- a. 01 SIDE COMPONENTS: J302
- b. 02 SIDE COMPONENTS: J301, L415, L419
- c. 01 SIDE FOOTPRINTS COVERED BY MASK: None
- d. 02 SIDE FOOTPRINTS COVERED BY MASK: None

5. LASER DATE CODE IN THIS AREA WITH THE FOLLOWING:

- a. LL=LOCATION ON PANEL
- b. PPPP = PANEL NUMBER
- c. YY = LAST 2 DIGITS OF YEAR
- d. WW = WEEK

MATERIAL:	TOLERANCE UNLESS OTHERWISE SPECIFIED INCHES [MM]		
	X.X +/- 0.020 [0.51] X.XX +/- 0.010 [0.25] X.XXX +/- 0.005 [0.13] X.XXXX +/- 0.0010 [0.025]	ANGLES 1°	
FINISH:	BY	SIGNATURE	DATE
	DRFT	Joe Matheson	11-14-16
	CHKD	Glenn Burnside	11-14-16
	ENGR	Dustin Degen	11-18-16
	QLTY	Rick Zellmann	11-15-16
SIZE: PCB CODE: PART NUMBER: REV:		B MBR 53258D000 03	
SCALE: NTS		SHEET NO.: 1 OF 8	



6600 Washington Ave. South  
Eden Prairie, MN. 55344  
tel. (952) 941-6401  
www.Starkey.com

MBR HA ASSY DWG

A

B

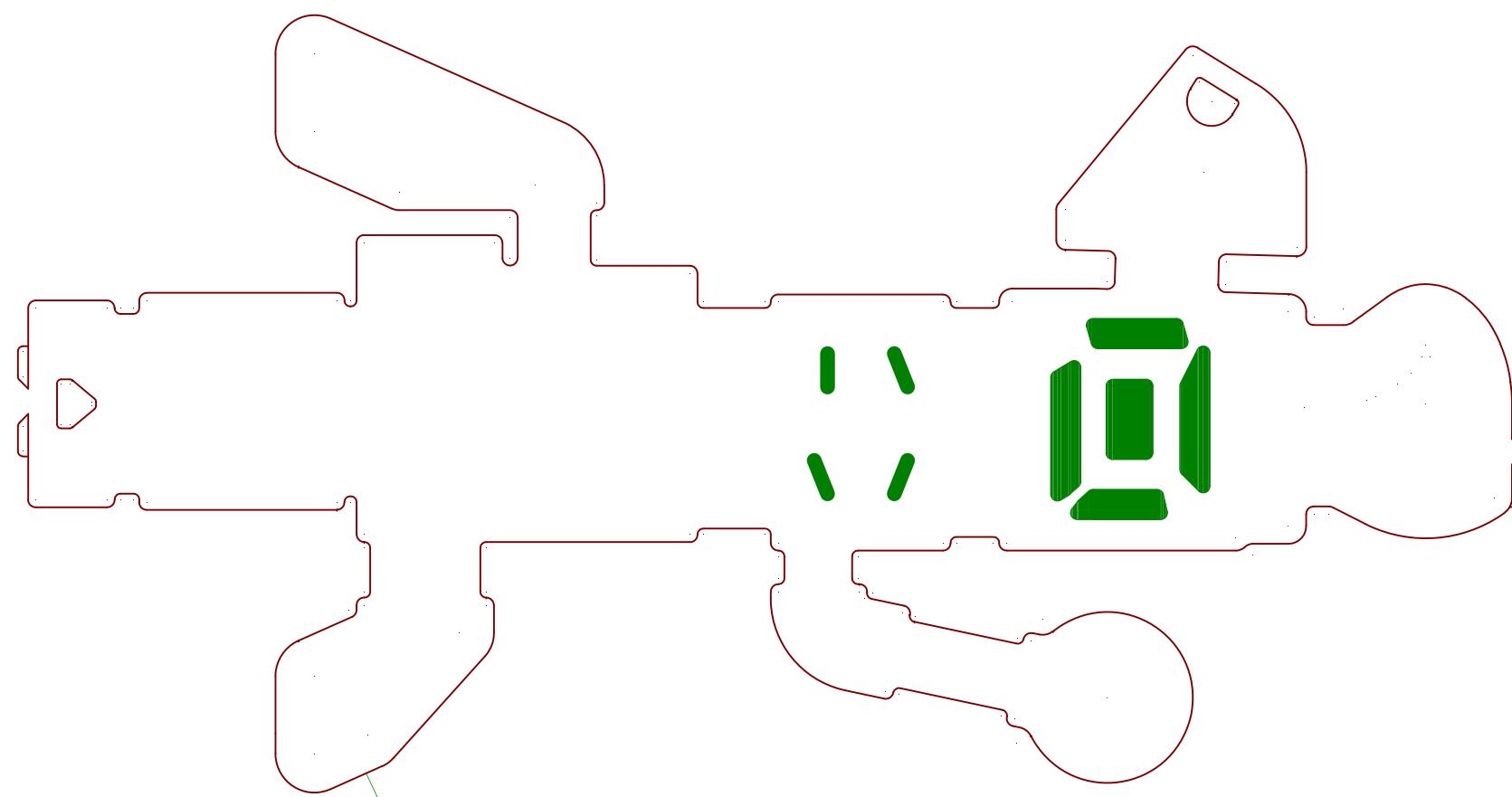
C

D

E

F

## TOP VIEW



LASER EXCISE OUTLINE FOR REFERENCE ONLY

Gerber File Description

MBR\_01-FLUX 01-08-16

SIZE: <b>B</b>	PCB CODE: <b>MBR</b>	PART NUMBER: <b>53258D000</b>	REV: <b>03</b>
SCALE: NTS		SHEET NO.:	2 OF 8

A

B

C

D

E

F

A

B

C

D

E

F

## TOP VIEW

**Gerber File Description**

MBR\_01-SOLDER-STENCIL 11-11-16

MBR\_01-SOLDER-STEP 01-08-16

SIZE: B	PCB CODE: MBR	PART NUMBER: 53258D000	REV: 03
SCALE: NTS	SHEET NO.: 3 OF 8		

A

B

C

D

E

F

A

B

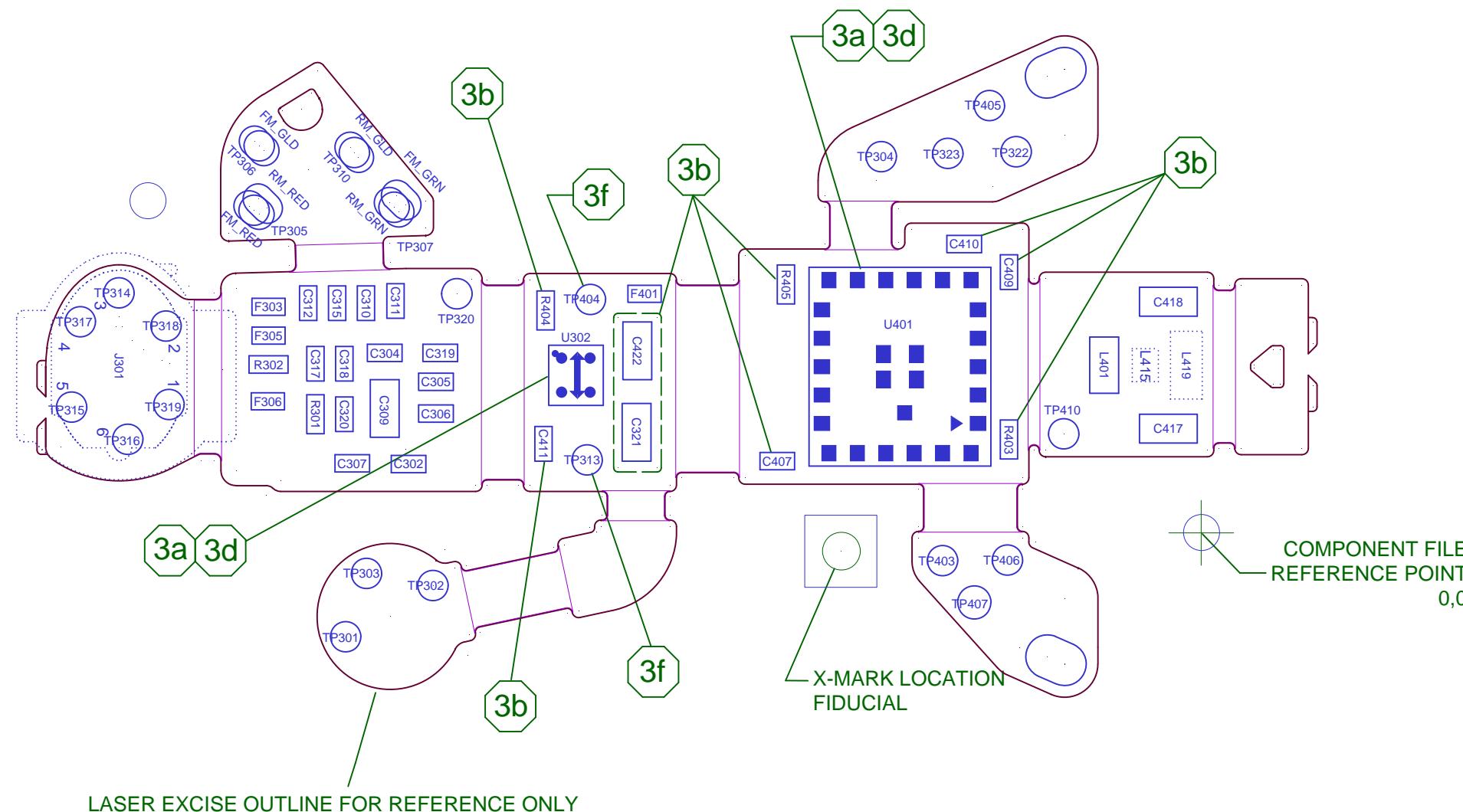
C

D

E

F

# BOTTOM VIEW



A

B

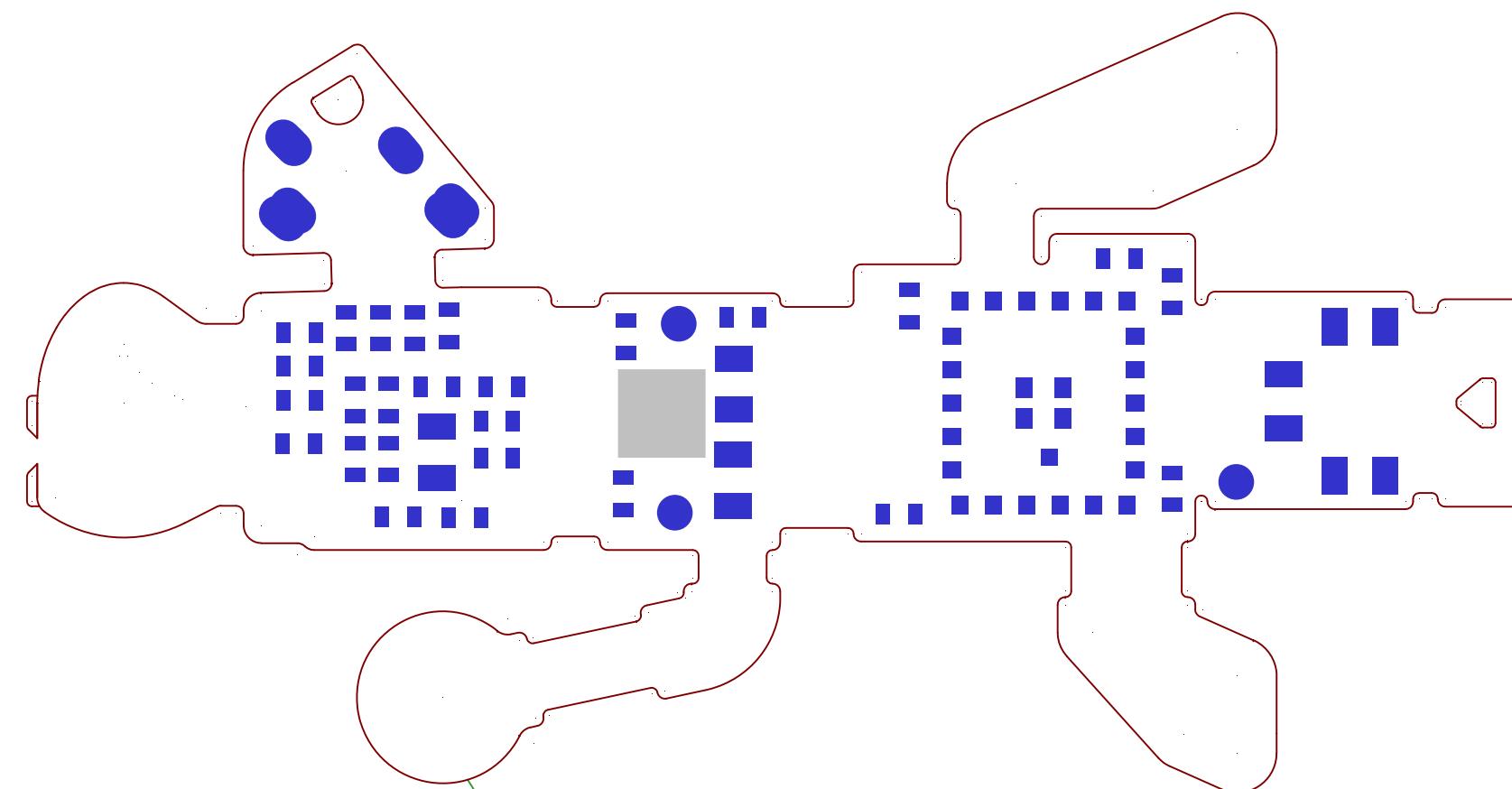
C

D

E

F

## BOTTOM VIEW



LASER EXCISE OUTLINE FOR REFERENCE ONLY

Gerber File Description

MBR\_04-SOLDER-STENCIL 09-23-16

MBR\_04-SOLDER-STEP 01-08-16

SIZE:	PCB CODE:	PART NUMBER:	REV:
B	MBR	53258D000	03
SCALE: NTS			SHEET NO.: 5 OF 8

A

B

C

D

E

F

A

B

C

D

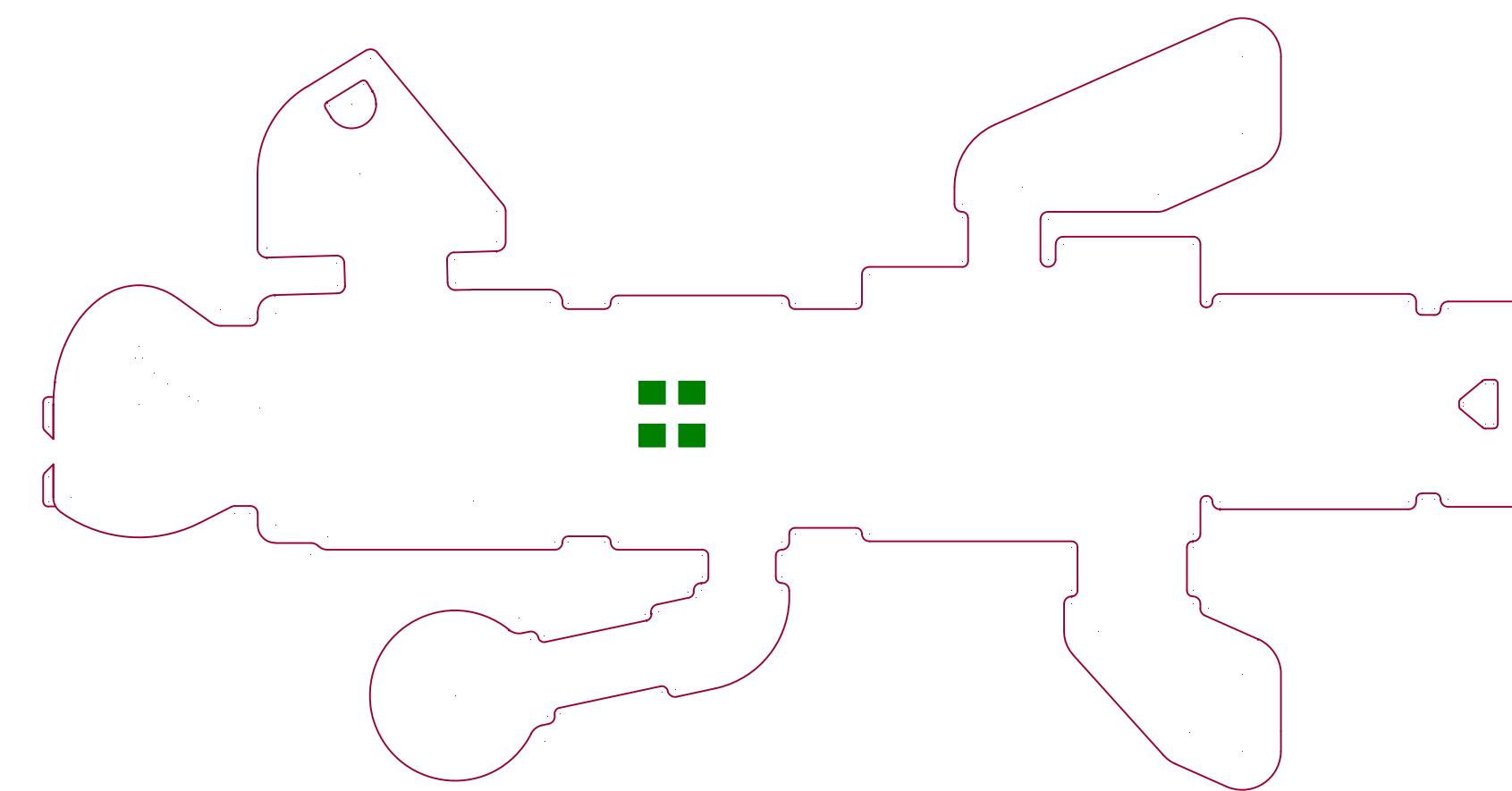
E

F

1

1

## BOTTOM VIEW



### Gerber File Description

MBR\_04-FLUX 01-08-16

SIZE:	PCB. CODE:	PART NUMBER:	
B	MBR	53258D000	03
SCALE: NTS		SHEET NO.:	6 OF 8

A

B

C

D

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F

A

B

C

D

E

F

# LASER EXCISE SPECIFICATIONS: Excise Gerber

## TOP VIEWS SHOWN

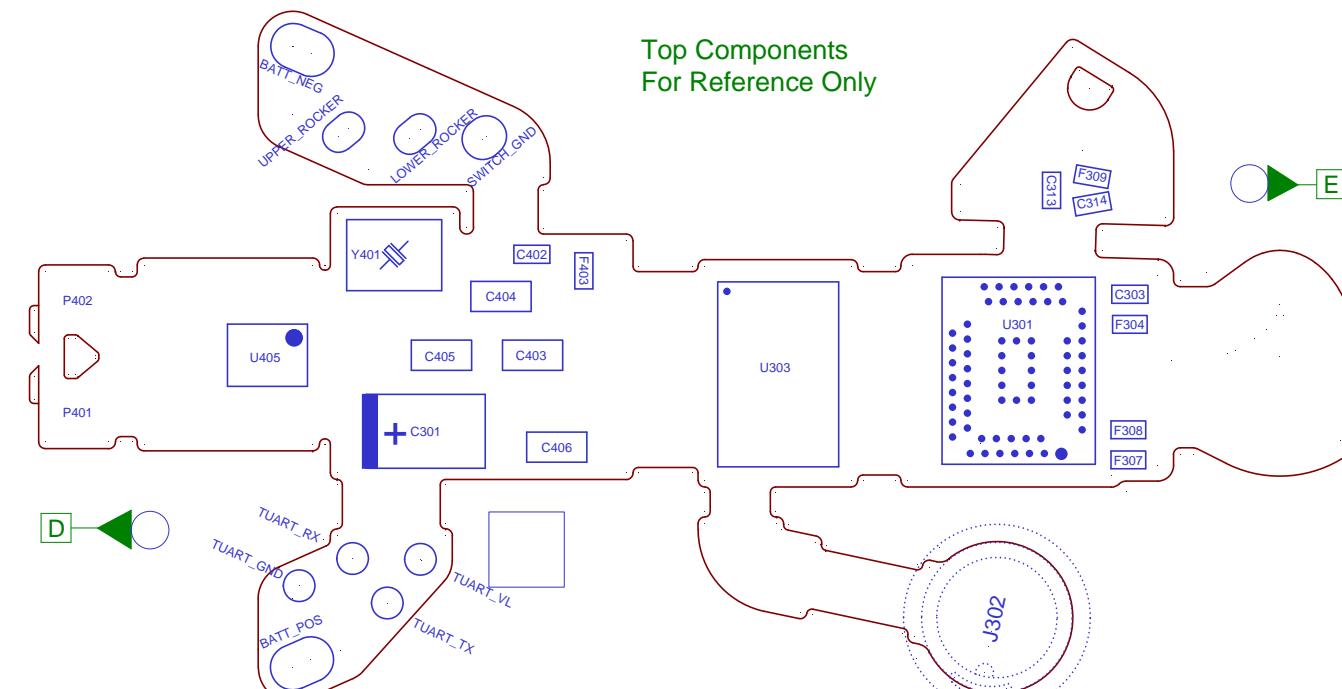
LASER EXCISE SPECIFICATIONS:  
 Page 7 Excise Gerber  
 Page 8 Excise Quality and Packaging

1. INDIVIDUAL LAYERS AND GERBER FILES ARE DETAILED ON SUBSEQUENT PAGES.  
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 AND REV AS THE DOCUMENT EXCEPT WITH THE "ZIP" EXTENSION.

2. ALL GERBER VIEWED FROM TOP LOOKING THROUGH BOARD FOR BOTTOM LAYERS

3. DATUM A IS THE PLANE DEFINED BY THE BOTTOM OF THE PANEL DATUMS D AND E  
 ARE LOCAL FIDUCIALS THAT APPLY TO EACH AND EVERY CIRCUIT INDIVIDUALLY.

4. LASER ROUTED EDGE:  
 a. CRITICAL AREAS: NONE  
 CRITICAL EDGES, IF PRESENT, WILL BE DISPLAYED BY A WIDER RED LINE.  
 b. NON-CRITICAL AREAS:   
 c. LASER EXCISE GERBER AND EXTRA CUT GERBER ARE COMPENSATED FOR 1-MIL KERF.



SIZE: B	PCB CODE: MBR	PART NUMBER: 53258D000	REV: 03
SCALE: NTS		SHEET NO.: 7 OF 8	

A

B

C

D

E

F

A

B

C

D

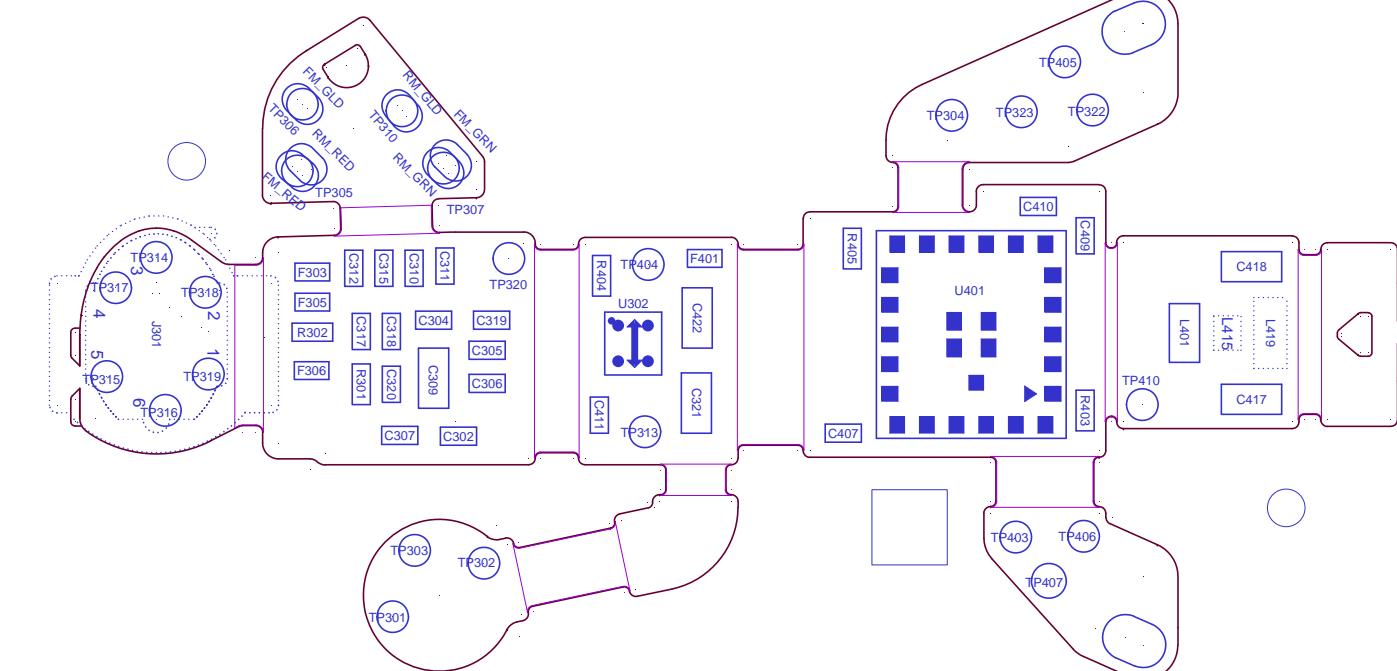
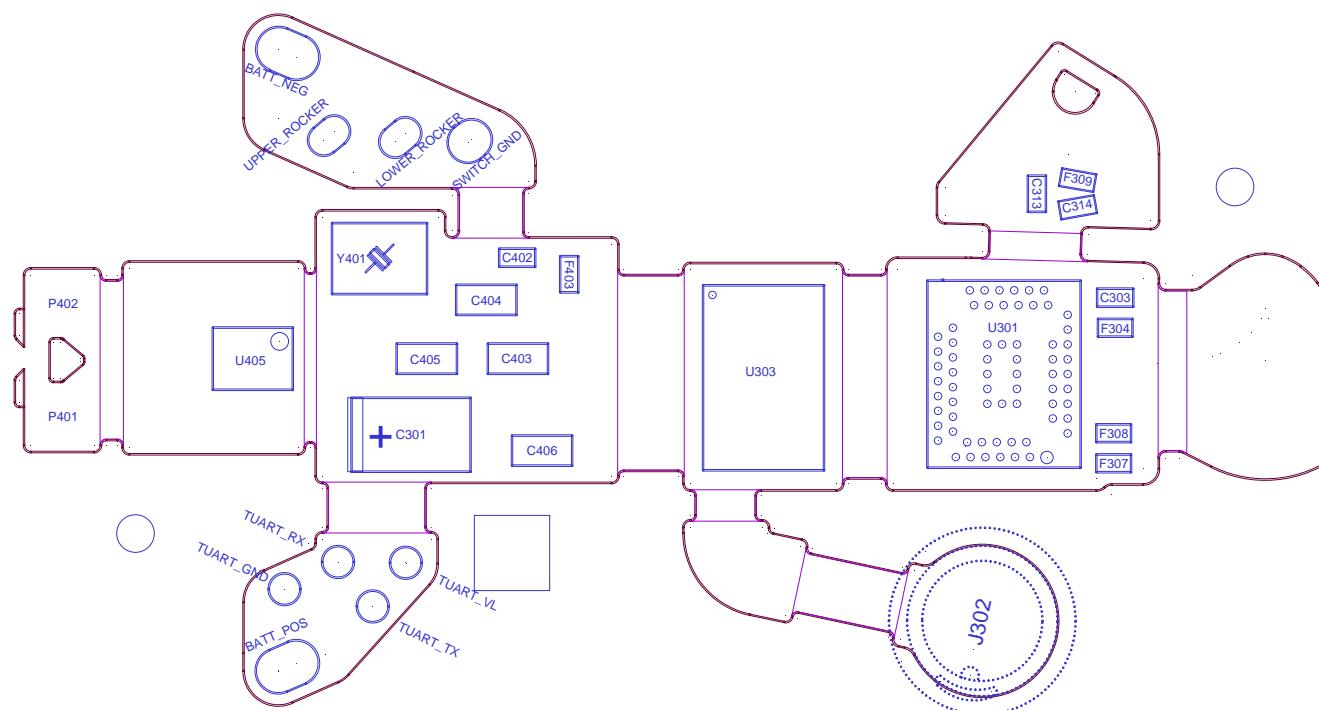
E

F

## TOP VIEW

## LASER EXCISE SIDE - BOTTOM

PARTS ARE SHOWN FOR REFERENCE ONLY



## LASER EXCISE SPECIFICATIONS: Excise Quality and Packaging

## 5. QUALITY

- LASER KERF EDGE SHALL BE SMOOTH.
- LASER MUST COMPLETELY CUT THROUGH PCB MATERIAL.
- EXCESSIVE LASER DEBRIS ALONG CUT LINE IS NOT ALLOWED.  
LASER DEBRIS SHALL NOT INHIBIT THE SOLDERABILITY OF GOLD PLATED PADS.
- PARTS SHALL BE PROTECTED FROM DAMAGE DUE TO HANDLING,  
ELECTROSTATIC DISCHARGE, OR EXCESSIVE HUMIDITY.
- NO CHEMICAL, AQUEOUS OR PLASMA CLEANING IS ALLOWED WITHOUT STARKEY APPROVAL.
- NO REWORK IS ALLOWED WITHOUT STARKEY APPROVAL.

## 6. PACKAGING.

- PARTS TO BE DELIVERED IN ARRAY
- PACKAGE TO SHIP AS RECEIVED: ON PALLET 53258-986, IN SAME CASSETTE, IN SAME BOX.
- THE ADDITION OF A DESICCANT SACHET AND A MOISTURE INDICATOR IS REQUIRED.