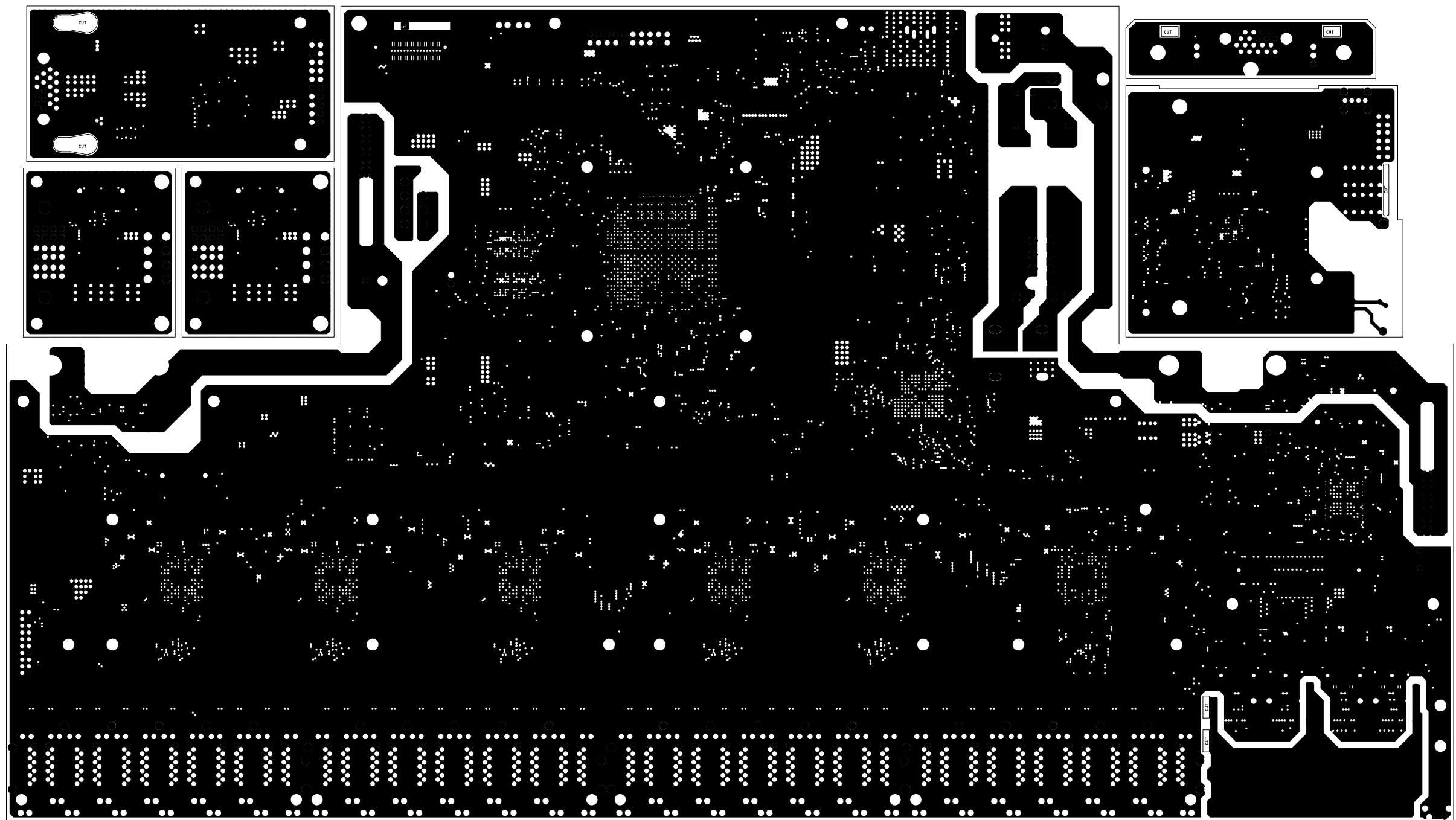


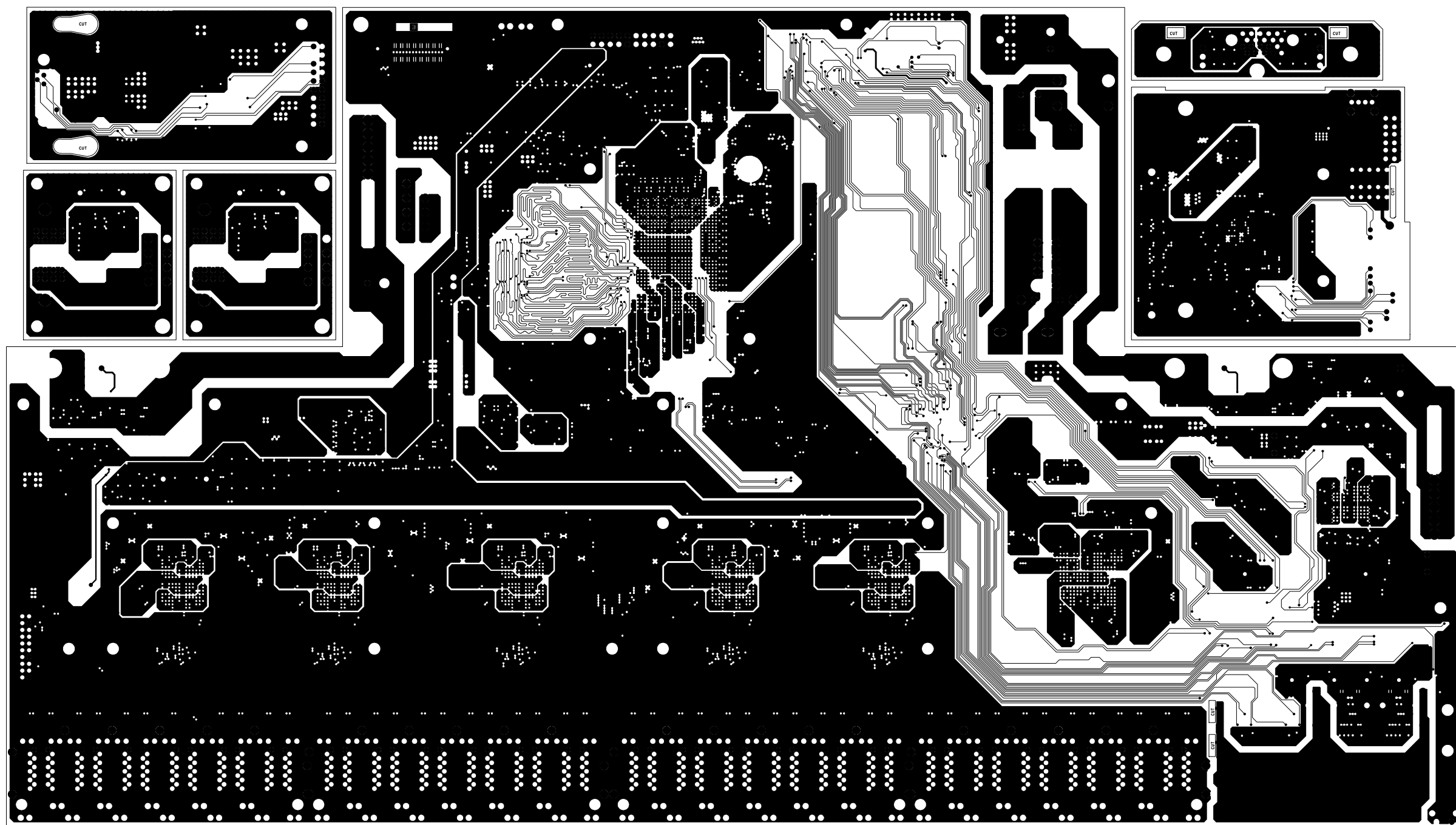
BOTTOM

PART NO :	2976924600	DRAWING NO :	L8_BOT_ART-00
USED ON :	AG6248C POE-R	REV. :	00
SHEET :	8 TO 9		
1ADFS-020011 REV.00		2014-04-07	



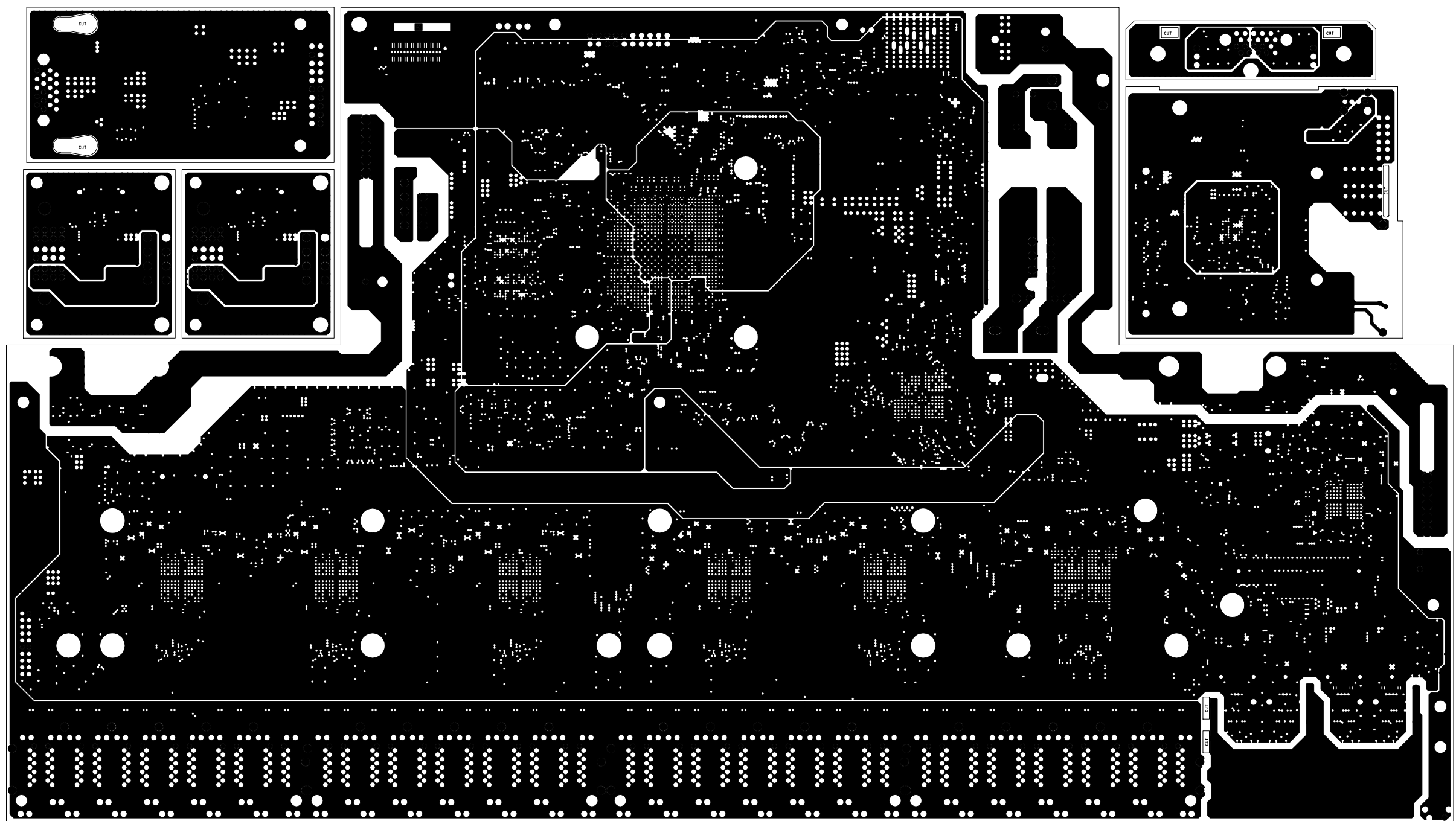
GND

PART NO :	2976924600	DRAWING NO :	L2_GND.ART-00
USED ON :	AG6248C POE-R	REV. :	00
SHEET :	11 TO 12		
1ADFS-020011 REV.00		2014-04-07	



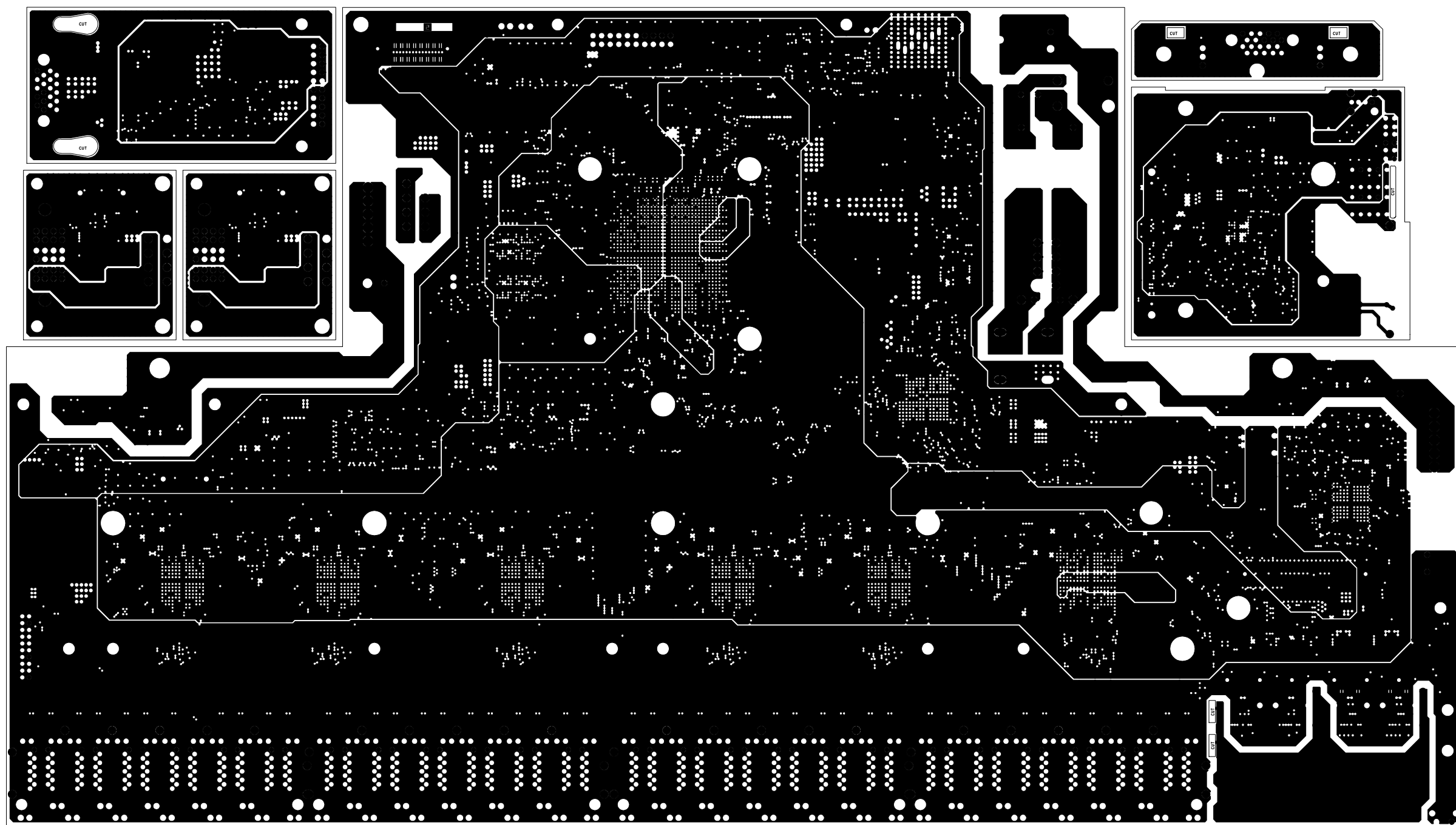
VCC

PART NO :	2976924600	DRAWING NO :	L3_VCC.ART-00
USED ON :	AG6248C POE-R	REV. :	00
SHEET :	12 TO 13		
1ADFS-020011 REV.00		2014-04-07	



INT1

PART NO :	2976924600	DRAWING NO :	L4_INT1.ART-00
USED ON :	AG6248C POE-R	REV. :	00
SHEET :	13 TO 14		
1ADFS-020011 REV.00		2014-04-07	

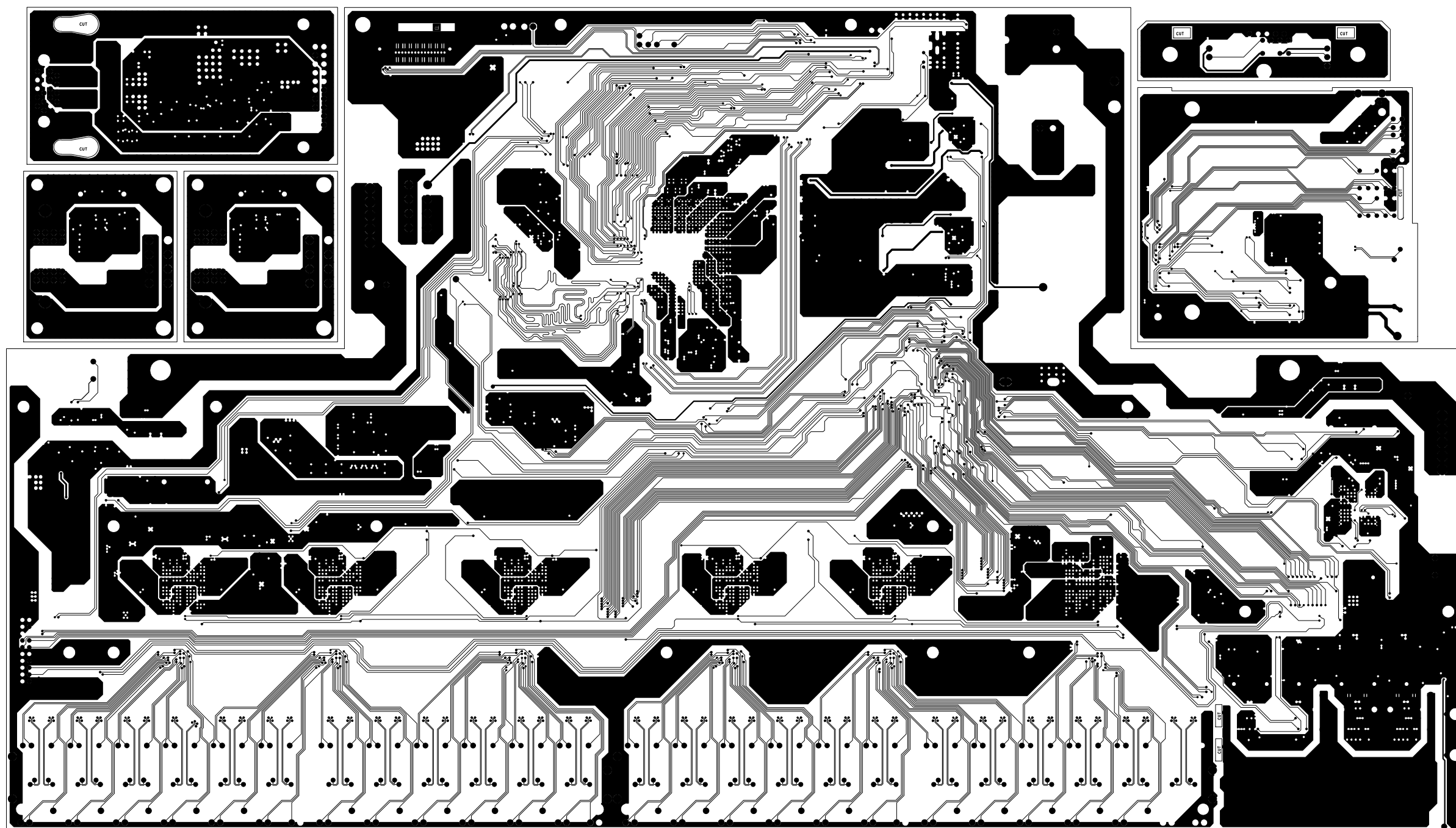


GND

PART NO :	2976924600	DRAWING NO :	L5_GND_ART-00
USED ON :	AG6248C POE-R	REV. :	00
SHEET :	14 TO 15		

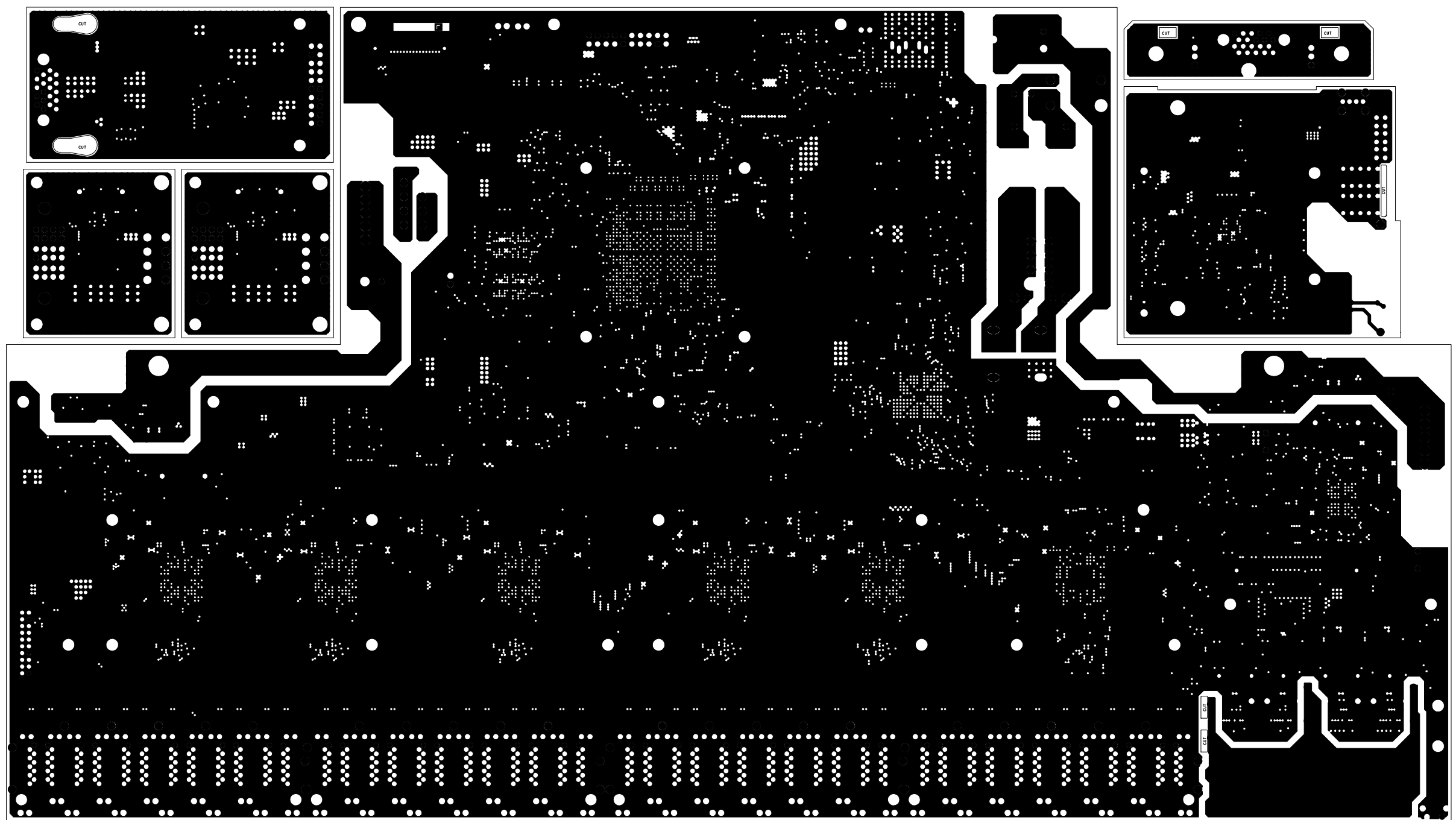
1ADFS-020011 REV.00

2014-04-07



INT2

PART NO :	2976924600	DRAWING NO :	L6_INT2.ART-00
USED ON :	AG6248C POE-R	REV. :	00
SHEET :	15 TO 16		
1ADFS-020011 REV.00		2014-04-07	



GND

PART NO :	2976924600	DRAWING NO :	L7_GND_ART-00
USED ON :	AG6248C POE-R	REV. :	00
SHEET :	16 TO END		
1ADFS-020011 REV.00		2014-04-07	

P. W. B. Engineering Specification

1. Material-☒FR-4,☐FR-4(Halogens free),☐CEM-3,☐.
2. Thickness-☒ $\pm 10\%$,☐ (Please catch ME comment)
3. Copper thickness-(1)External Layer Copper-☒1/2oz,☐1oz,☐2oz,☐.
(2)Internal Layer Copper-☐1/2oz,☐1oz,☐2oz,☒ASYM, ☒By Layer.
4. PWB-☐2Layer,☐4Layer,☐6Layer,☒8Layer,☐10Layer,☐12Layer,☐ layer
5. Surface Finish-(1)☐HASL(Pb),☐LF HASL,☐Im-Ag,☐OSP,☒HT OSP,☐.
☐OSP+ENIG,☐Golden plating,☐ENIG (only for customer designation).
(2)Thickness \times Au $>1.97\mu\text{in}$;Ni $>118\mu\text{in}$,☐Au,☐Ni.
6. Golden Finger-(1)☐ENIG, ☐Golden plating(please see page 2 item 16) \times
(2)Thickness☐.
7. Silkscreen-(1)Component side:☒White,☐; (2)Solder side:☒White,☐.
8. Solder Mask-(1)☒Liquid photo,☐WET mask,☐DRY film ;(2)☒Green,☐Yellow,☐.

9. V-CUT Angle θ -☒30°,☐45°,☐.

PWB thickness(T)	$2.0 \leq T < 3.0(\text{mm})$	$T \leq 2.0(\text{mm})$
Residual Thickness	$0.55 \pm 0.75(\text{mm})$	$1/3T \pm 0.1(\text{mm})$

10. Maximum Working frequency 25 MHz.

11. Vendor shall provide UL CARD for UL 94 V-0 compliance.

- ☒UL MARK(UL 94 V-0)☒Date Code,☐Country of Original Location.

12. PWB Acceptance criteria: Purchasing Specification for PWB 1ADSG-110001

13. The spec total page: 16

Drawing No.-(Version)

SHEET

(1) HISTORY CARD-----	//	//
(2) COVER SHEET-----	PWBES.ART-00	1 To 2
(3) Component Silkscreen-----	TOP_SILK.ART-00	2 To 3
(4) Solder Silkscreen-----	BOT_SILK.ART-00	3 To 4
(5) Component Mask-----	TOP_MASK.ART-00	4 To 5
(6) Solder Mask-----	BOT_MASK.ART-00	5 To 6
(7) Drill Drawing-----	DRILL.ART-00	6 To 7
(8) Mechanical Drawing-----	//	//
(9) Component Artwork-----	L1_TOP.ART-00	7 To 8
(10) Solder Artwork-----	L8_BOT.ART-00	8 To 9
(11) Paste Top-----	TOP_PASTE.ART-00	9 To 10
(12) Paste Bottom-----	BOT_PASTE.ART-00	10 To 11
(13) Assembly Top-----	//	//
(14) Assembly Bottom-----	//	//
(15) Layer 2-----	L2_GND.ART-00	11 To 12
(16) Layer 3-----	L3_VCC.ART-00	12 To 13
(17) Layer 4-----	L4_INT1.ART-00	13 To 14
(18) Layer 5-----	L5_GND.ART-00	14 To 15
(19) Layer 6-----	L6_INT2.ART-00	15 To 16
(20) Layer 7-----	L7_GND.ART-00	16 To End
(21) Layer 8-----	//	//
(22) Layer 9-----	//	//
(23) Layer 10-----	//	//
(24) Layer 11-----	//	//
(25) -----	//	//

BASIC RANGE	X.X	X.XX	Agema Systems, INC.		
0-10	± 0.2	± 0.08	DRAWN BY		
10-20	± 0.3	± 0.15	PART NAME PWB		
ABOVE 20	± 0.5	± 0.25	USED ON:		
ANGULAR	SCALE 1:1	THREE ANGLE PROJECTION	AG6248C POE-R		
DIMS $\pm 1/2$ DEG	UNIT		PART NO. 2976924600 REV.		
			EDM Doc name: SHEET 1 TO 2 00		

1ADFS-020009 REV.08(Page1/2)

PWB

1ADFS-020009_

AG6248C POE-R -

A00

PART NO : 2976924600

USED ON : AG6248C POE-R

SHEET : 1 TO 2

1ADFS-020011 REV.00

DRAWING NO :

PWBES.ART-00

REV. :

00

2014-04-07

P. W. B. Engineering Specification

14. Vendor shall provide manufacture/type and specification of OSP.

(According to 1ADSG-110001 Purchasing Specification for PWB.)

(1) OSP Td $> 350^{\circ}\text{C}$ or HT type OSP; (2) Resistance of IR reflow ($260^{\circ}\text{C}/60$ sec Min.) < 3 times (Min.)

(3) OSP thickness shall be per chemical vendor and it cannot affect solderability.

15. Vendor shall provide following specification for DNI approval.

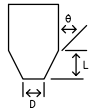
(Template doc NO : 1ADFS-110001 DNI High Level PWB Stackup SPEC.)

16. Golden Finger:

(1) Bevel Angle θ -☐20°,☐30°,☐45°,☐ \times

(2) Bevel length L-☐0.5mm,☐0.8mm,☐1.1mm, \times

(3) Base Width D-☐mm.



Note:

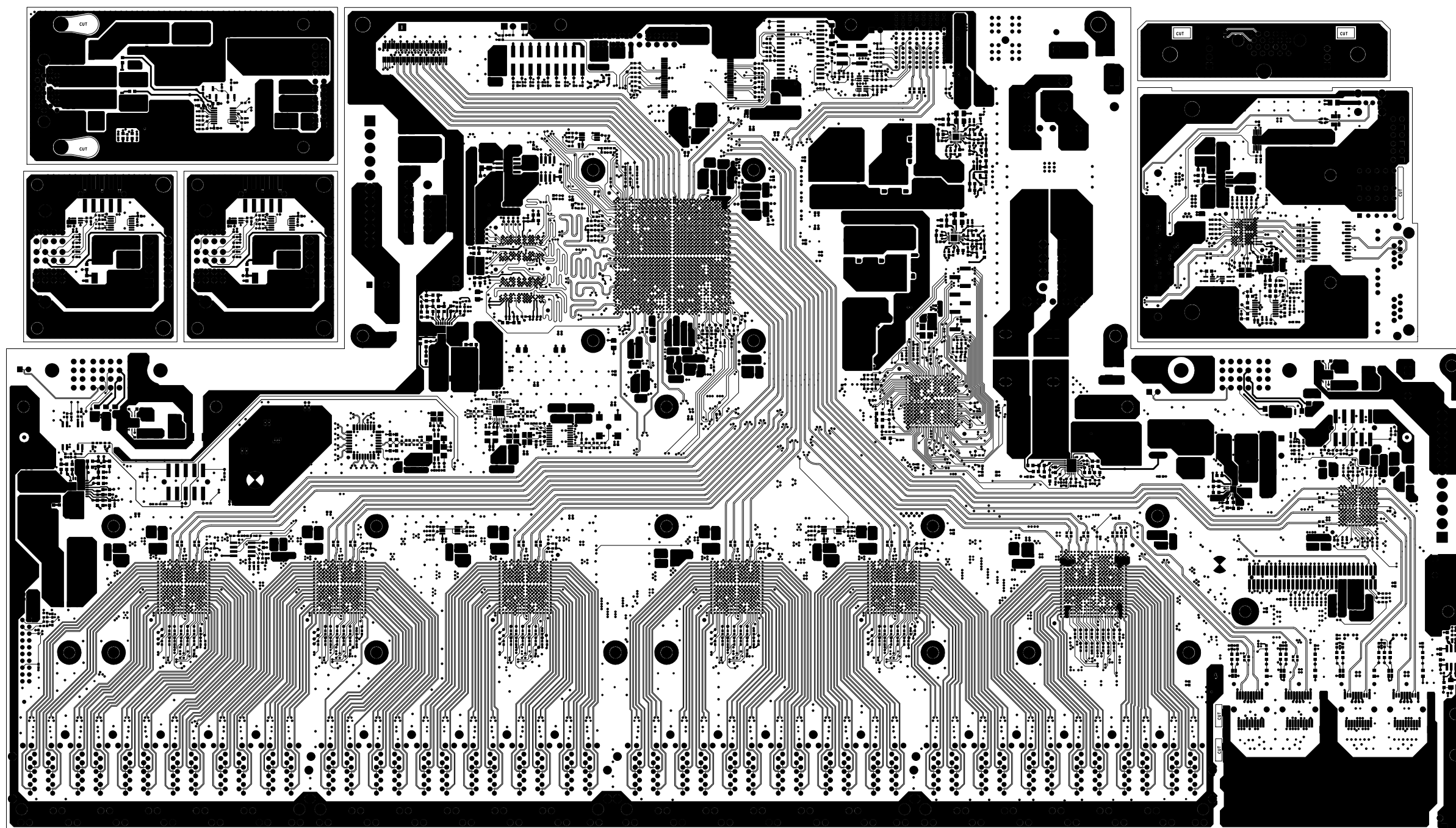
BASIC RANGE	X.X	X.XX	Agema Systems, INC.		
0-10	± 0.2	± 0.08	DRAWN BY		
10-20	± 0.3	± 0.15	PART NAME PWB		
ABOVE 20	± 0.5	± 0.25	USED ON:		
ANGULAR	SCALE 1:1	THREE ANGLE PROJECTION	AG6248C POE-R		
DIMS $\pm 1/2$ DEG	UNIT		PART NO. 2976924600 REV.		
			EDM Doc name: SHEET 2 TO 2 00		

1ADFS-020009 REV.08(Page2/2)

1ADFS-020009_

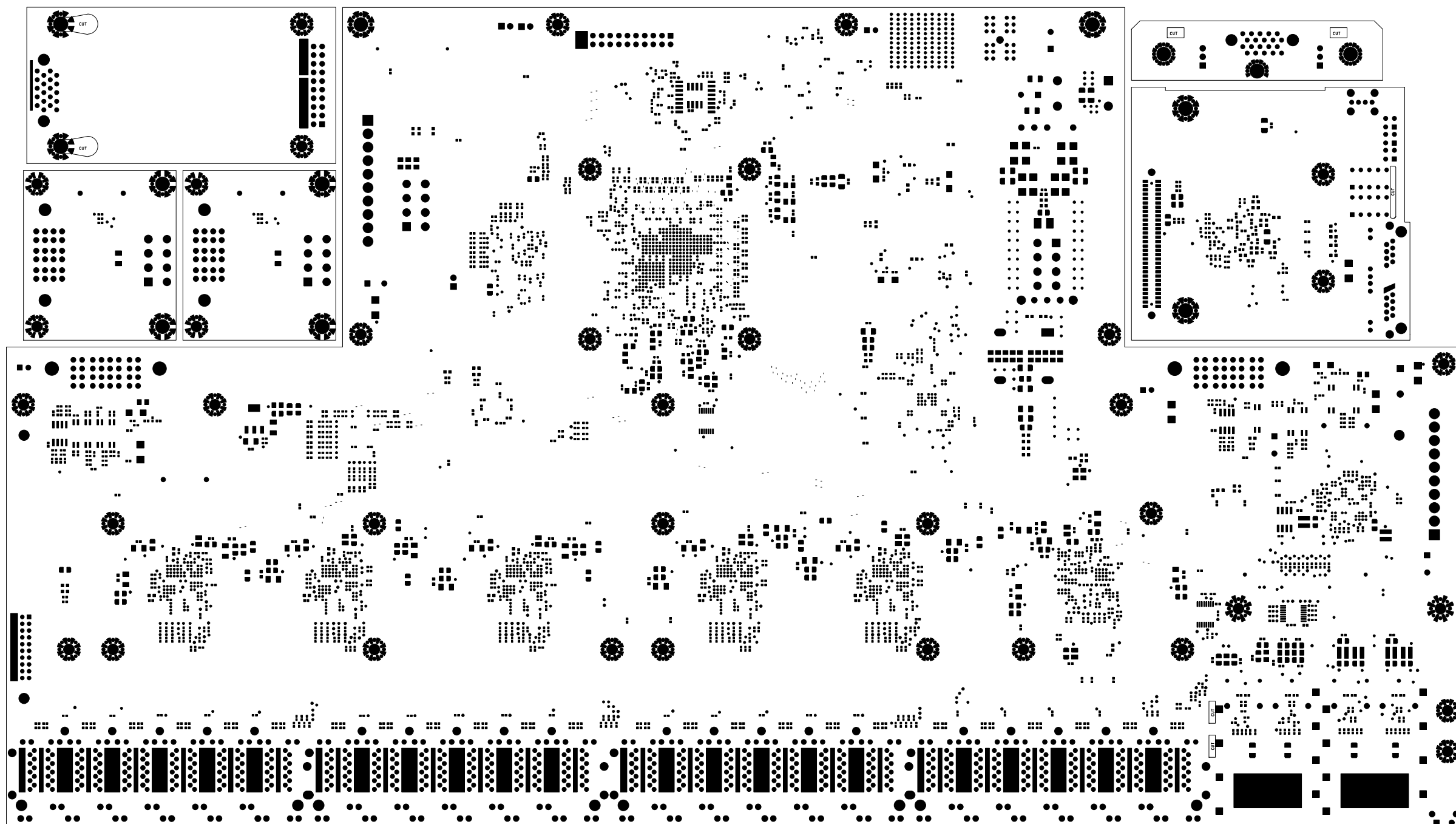
AG6248C POE-R -

A00



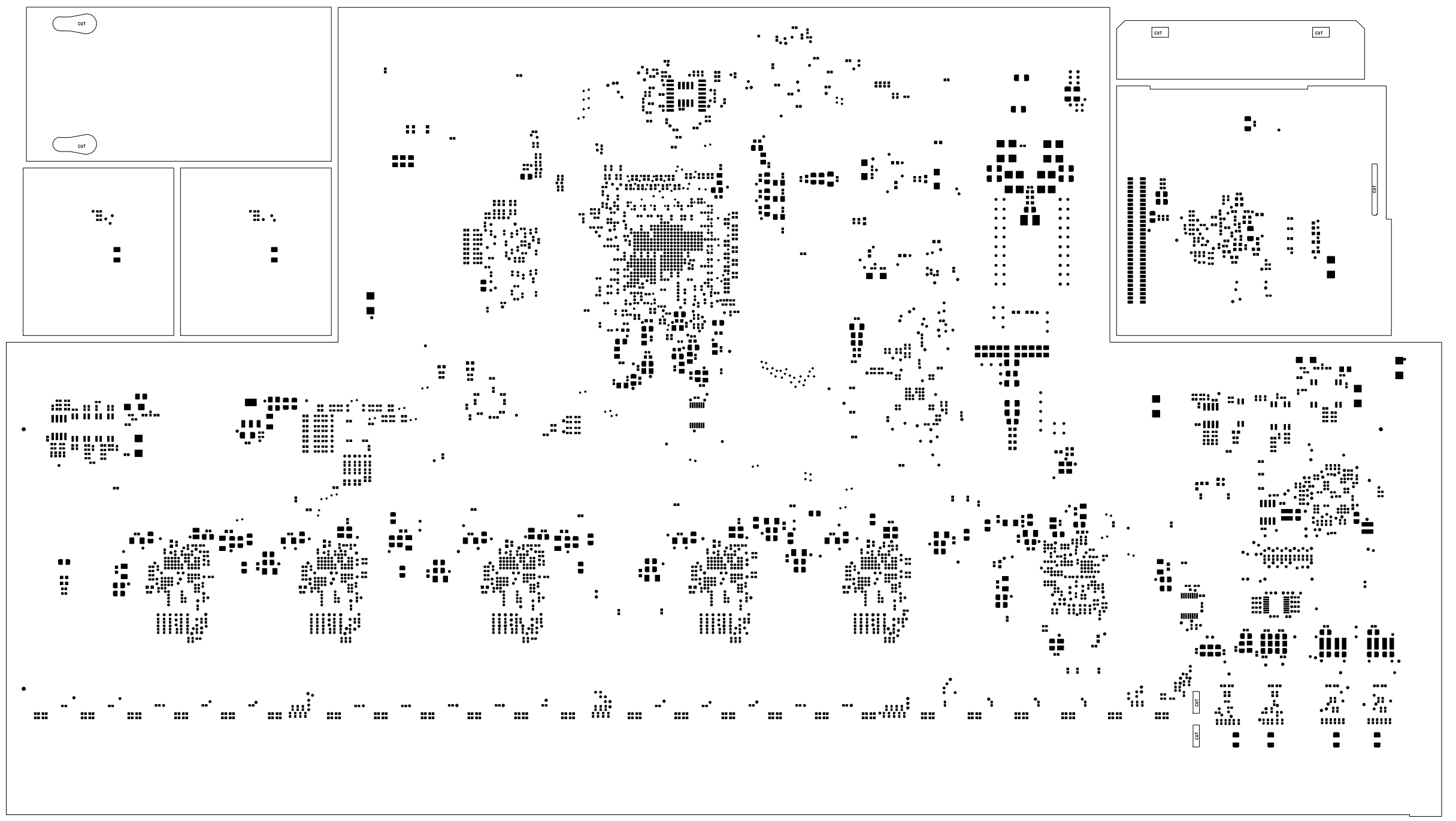
TOP

PART NO :	2976924600	DRAWING NO :	L1_TOP.ART-00
USED ON :	AG6248C POE-R	REV. :	00
SHEET :	7 TO 8		
1ADFS-020011 REV.00		2014-04-07	



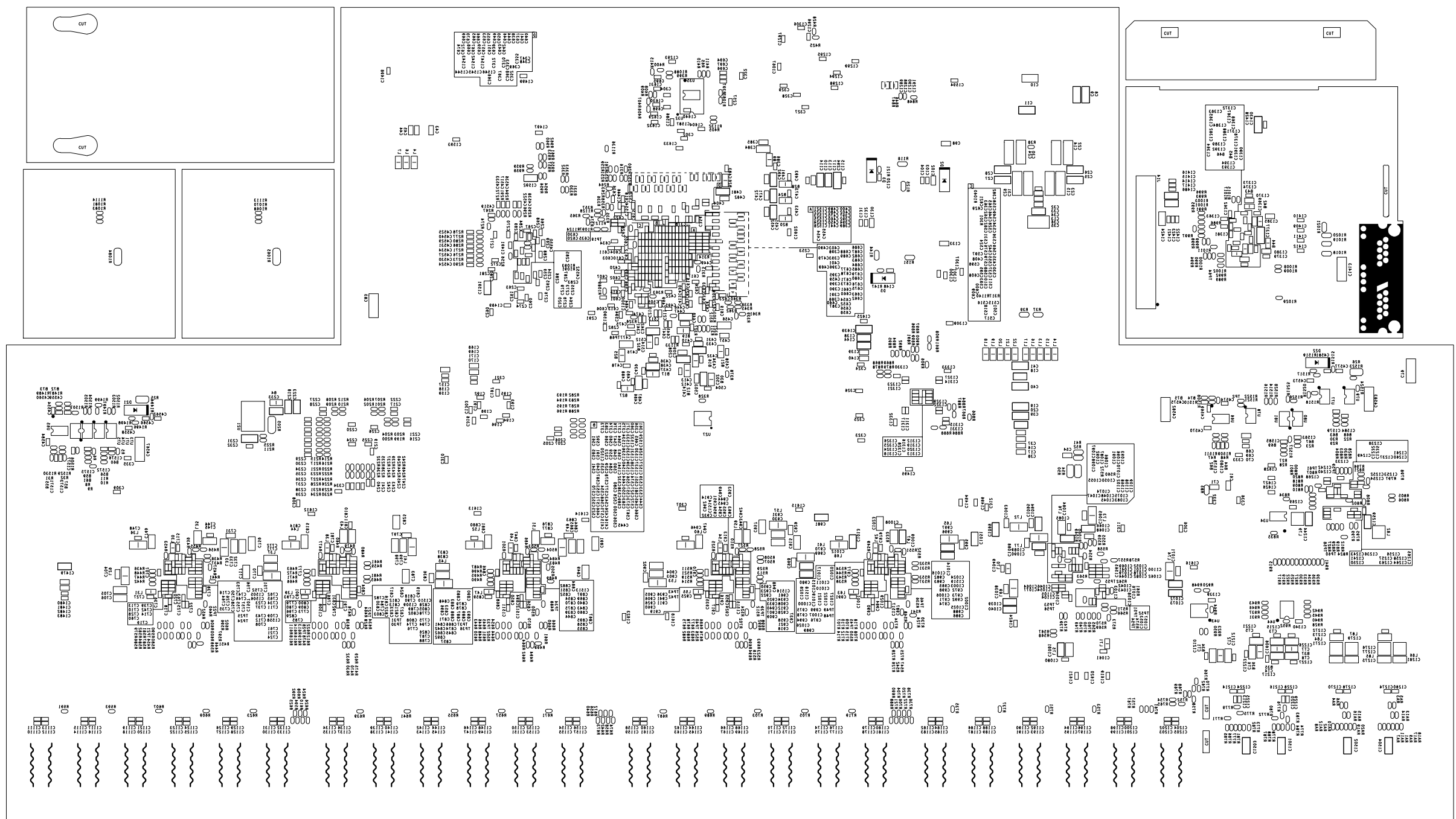
SOLDER MASK BOTTOM

PART NO : 2976924600 DRAWING NO : BOT_MASK.ART-00
USED ON : AG6248C POE-R REV. : 00
SHEET : 5 TO 6
1ADFS-020011 REV.00 2014-04-07



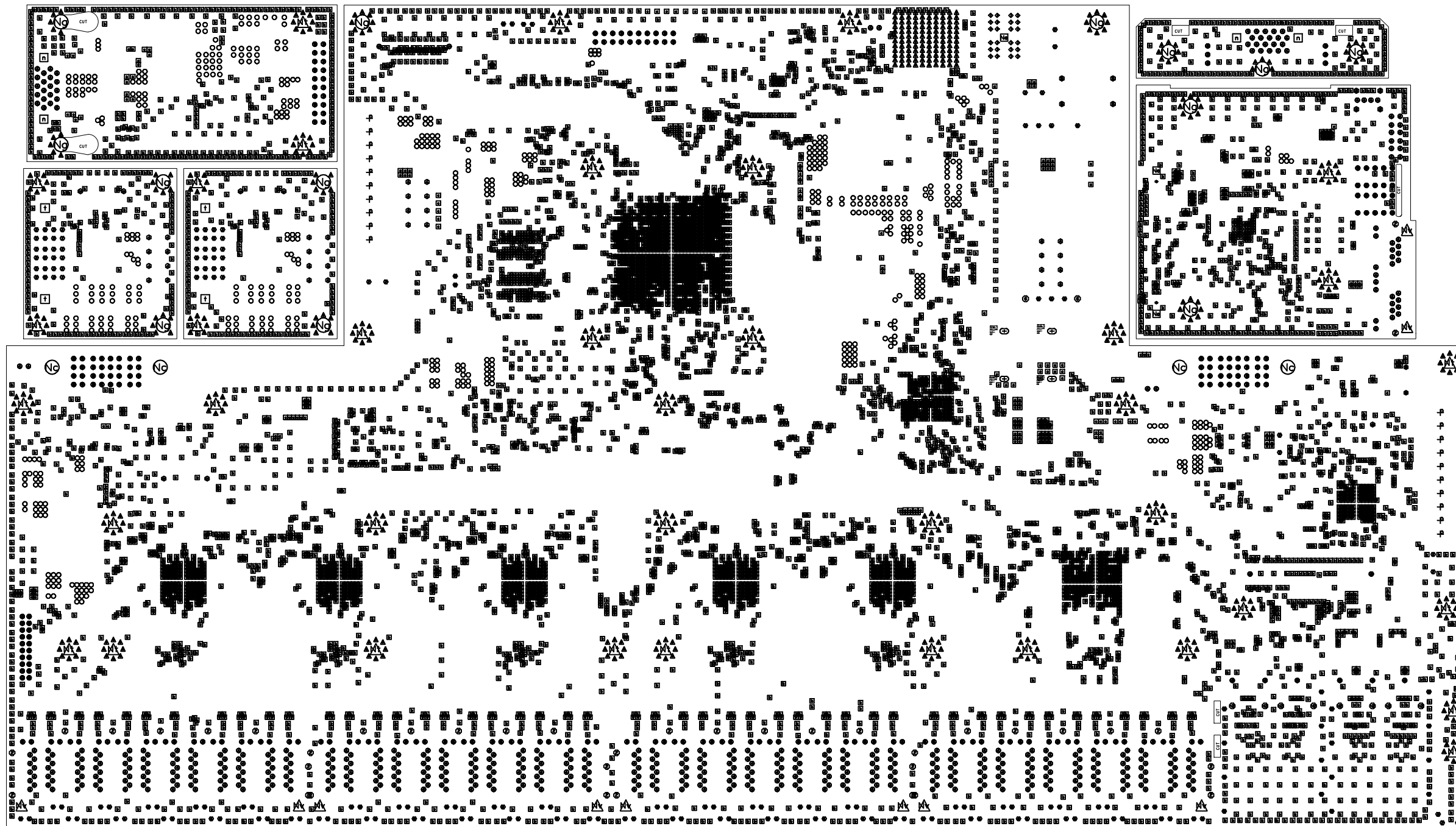
PASTE MASK BOTTOM

PART NO :	2976924600	DRAWING NO :	BOT_PASTE.ART-00
USED ON :	AG6248C POE-R	REV. :	00
SHEET :	10 TO 11		
1ADFS-020011 REV.00		2014-04-07	



SILKSCREEN BOTTOM

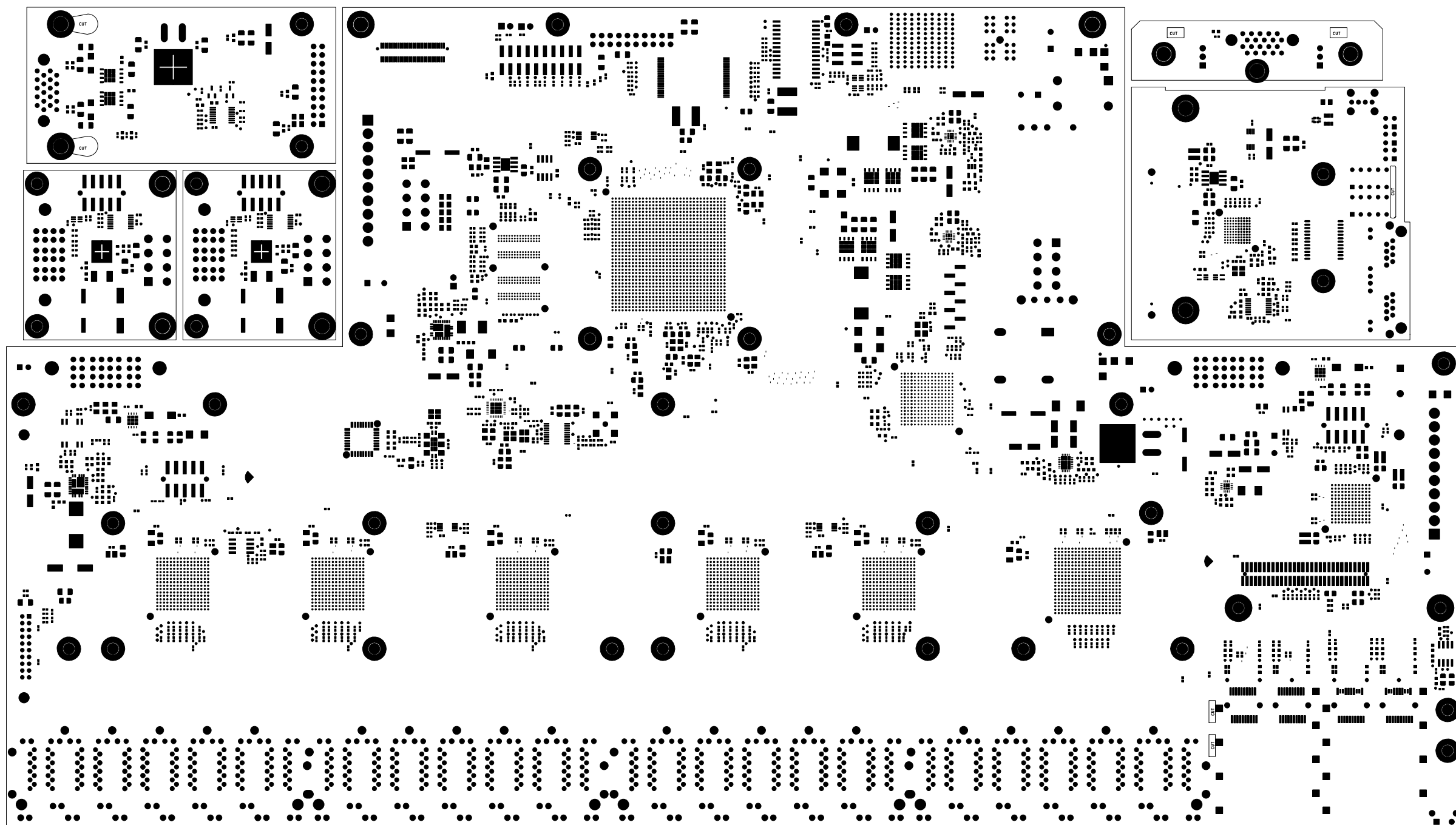
PART NO : 2976924600 DRAWING NO : BOT_SILK.ART-00
USED ON : AG6248C POE-R REV. : 00
SHEET : 3 TO 4 2014-04-07
1ADFS-020011 REV.00



DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	FINISH SIZE	PLATED	QTY
■	10.0	PLATED	2193
■	12.0	PLATED	5752
■	16.0	PLATED	550
▲	16.0	PLATED	381
○	20.0	PLATED	558
▲	20.0	PLATED	120
◆	28.0	PLATED	24
●	31.0	PLATED	40
●	35.0	PLATED	566
●	39.0	PLATED	102
●	40.0	PLATED	104
●	41.0	PLATED	16
●	43.0	PLATED	60
●	47.0	PLATED	111
●	51.0	PLATED	2
●	55.0	PLATED	32
●	59.0	PLATED	8
⊙	63.0	PLATED	38
⊙	67.0	PLATED	2
+	71.0	PLATED	20
□	94.0	PLATED	4
□	100.0	PLATED	4
●	30.0	NON-PLATED	2
●	35.0	NON-PLATED	2
●	41.0	NON-PLATED	8
●	55.0	NON-PLATED	8
●	63.0	NON-PLATED	8
■	84.0	NON-PLATED	2
■	85.0	NON-PLATED	1
▲	126.0	NON-PLATED	38
▲	128.0	NON-PLATED	10
⊙	161.0	NON-PLATED	4
⊙	165.0	NON-PLATED	13
⊙	100.0x60.0	PLATED	4

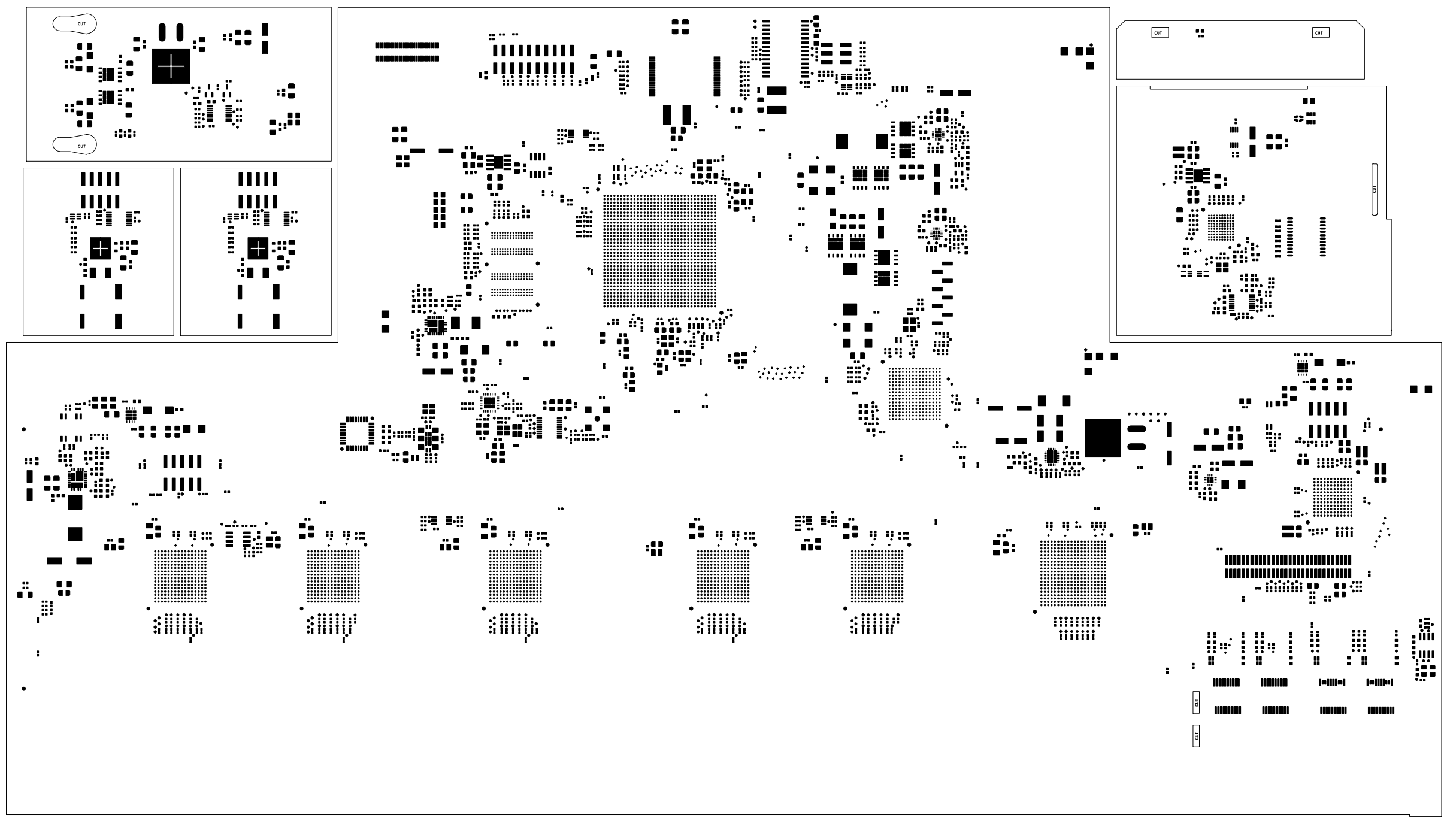
DRILL MAP

PART NO : 2976924600 DRAWING NO : DRILL.ART-00
USED ON : AG6248C POE-R REV. : 00
SHEET : 6 TO 7
1ADFS-020011 REV.00 2014-04-07



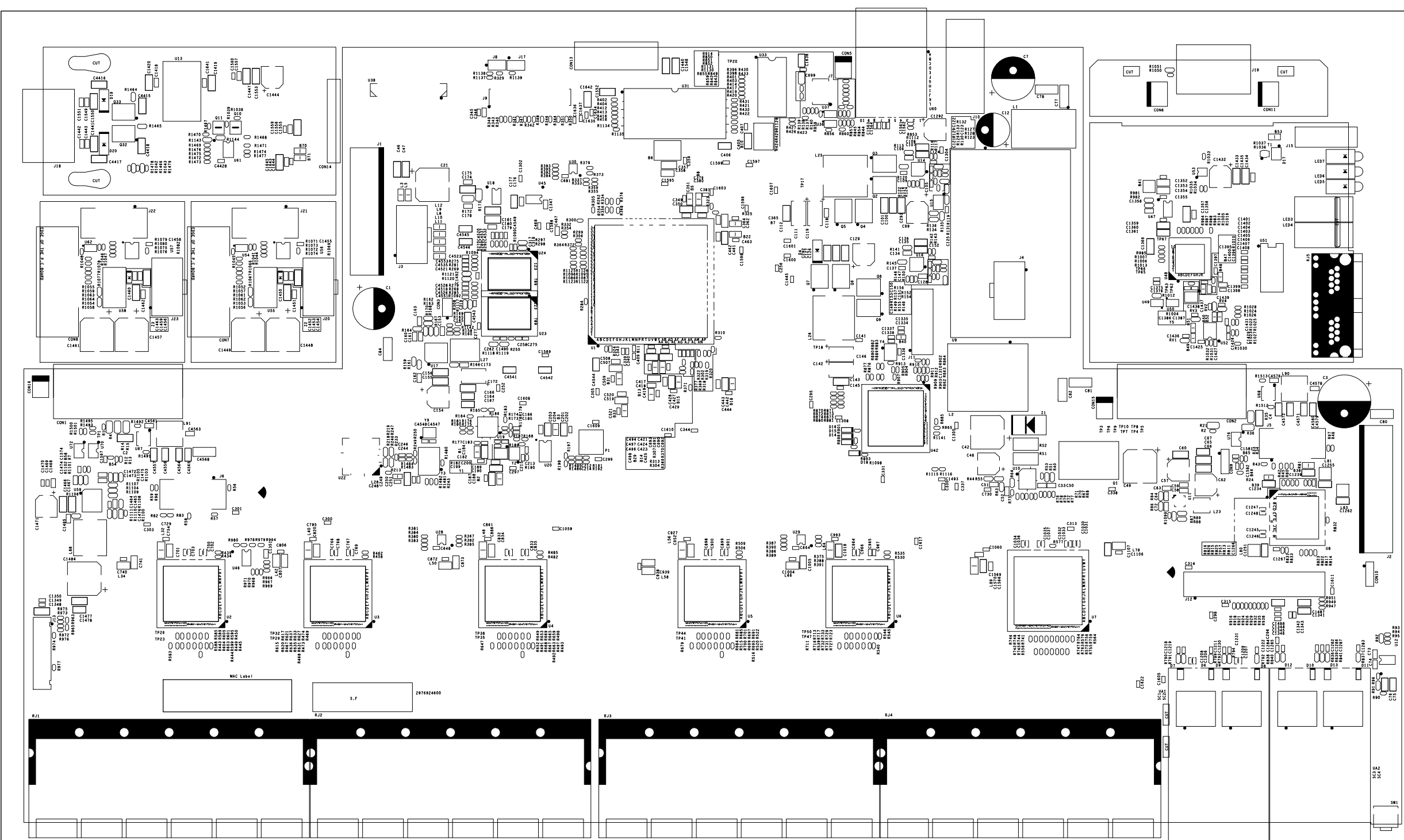
SOLDER MASK TOP

PART NO : 2976924600 DRAWING NO : TOP_MASK.ART-00
USED ON : AG6248C POE-R REV. : 00
SHEET : 4 TO 5
1ADFS-020011 REV.00 2014-04-07



PASTE MASK TOP

PART NO :	2976924600	DRAWING NO :	TOP_PASTE.ART-00
USED ON :	AG6248C POE-R	REV. :	00
SHEET :	9 TO 10		
1ADFS-020011 REV.00		2014-04-07	



SILKSCREEN TOP

PART NO : 2976924600

DRAWING NO : TOP_SILK.ART-00

USED ON : AG6248C POE-R

REV. : 00

SHEET : 2 TO 3

2014-04-07

1ADFS-020011 REV.00

