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DWG NO.7464-3000REV1

1

NOTES:

1. 1. ASSEMBLY PER A SET OF APL APPROVED ASSEMBLY AND QUALITY PROCEDURES (Q53-638 FOR INTERNAL APL USE)

2. UNLESS OTHERWISE INDICATED, SQUARE PAD DENOTES PIN 1 OF A THROUGH HOLE CONNECTOR.

3. MAX ENVELOPE HEIGHT NOT TO EXCEED 17.78 (.700) FROM THE PRIMARY SURFACE OF THE PWB AND 6.35 (.250) FROM THE SECONDARY SURFACE.

4. DELETED.

5. ASSEMBLY CONTAINS PLASTIC PARTS: HANDLE PER J-STD-033.

6. ASSEMBLY CONTAINS FLAT PACKS: BEND AND TRIM LEADS PER J-STD-001ES (CLAUSE 7.1) AND AN APL APPROVED AND DOCUMENTED PROCEDURE (Q53-551 FOR INTERNAL APL USE).

A) COMPONENT CLEARANCE:

1. BOTTOM OF FLAT PACK DEVICES SHALL BE .254 +/- .127 (.010 +/- .005) ABOVE THE BOTTOM OF THE FORMED LEAD.

2. BOTTOM OF CAN STYLE DEVICES SHALL BE A MINIMUM OF .762 (.030) ABOVE THE PWB SURFACE.

B) AFTER LEAD FORMING DEVICES Q19-Q20. PERFORM VISUAL INSPECTION AND LEAK TEST ON GLASS SEAL DEVICES PER MIL-STD-750. METHOD 1071 FOR DIODES AND CRYSTALS OR MIL-STD-883, METHOD 1014 FOR HYBRIDS AND MONOLITHICS PRIOR TO ASSEMBLY.

7. DELETED.

8. TORQUE PER SD-WI-740, UNLESS SPECIFIED BELOW,

A) TORQUE #4 HARDWARE TO 4.0 INCH-LBS MAX.

B) TORQUE #2 HARDWARE TO 2.0 INCH-LBS MAX.

C) TORQUE #0-80 TO 1.0 INCH-LBS MAX.

9. SOLDER COMPONENTS PER J-STD-001ES.

10. APPLY POLYMERICS PER SET OF APL APPROVED PROCEDURES (Q53-670 FOR INTERNAL APL USE) AND NASA-STD-8739.1A ALL POLYMERIC MATERIALS MUST BE CURED SUCH THAT THEY MEET THE FOLLOWING OUTGASSING REQUIREMENTS: TOTAL MASS LOSS (TML) <= 1.0% AND COLLECTED VOLATILE CONDENSABLE MATERIALS (CVCM) <= 0.1% PER ASTM E595. IN ADDITION, THE CURES MUST BE PERFORMED SUCH THAT THE BOARD TEMPERATURE DOES NOT EXCEED XX C.

A) ITEM 14:

1. STAKE THE TRANSFORMERS AND INDUCTORS: T1, T3, T10-T13

B) ITEM 15:

1. STAKE ALL FASTENERS.

C) DELETED.

D) ITEMS 17 AND 19:

1. STAKE BOTH ENDS U1, U3-U9, U11-U13, U71, U75-U77, U84, U86-U91

2. STAKE CAN STYLE DEVICES Q19 AND Q20 IN THREE PLACES.

3. STAKE C162, C163 AND C45 AT BOTH ENDS.

E BOND Q11 USING ITEM 20.

F AFTER COMPLETION OF ALL ELECTRICAL TESTS AND ESS, CONFORMAL COAT PRIMARY AND SECONDARY SIDES OF BOARD USING ITEM 18 PER NASA-STD-8739-1A. AREAS AND FEATURES INDICATED ARE TO BE KEPT FREE OF COATING.

11 COMPLETE THE IDENTIFICATION OF THIS ASSEMBLY BY MARKING THE APPROPRIATE ASSEMBLY VERSION, THE REVISION OF THIS DRAWING AND THE SERIAL NUMBER IN THE APPROXIMATE LOCATION(S) SHOWN USING ITEM 10 OR ITEMS 11 AND 12.

12. DELETED

13. DELETED

14 PROVIDE MECHANICAL SUPPORT FOR T10, T11, T12 USING ITEM 23.

1

38

NAS1352N04-6

SCR, SHC .112-40 X 0.500

4-40 X .380

1

37

NAS1291C02M

NUT, SLF-LCK .112-40

4-40 UNC

2

36

NAS620C4

WASHER, FLAT, 0.112

NO. 4

35

34

2

33

NAS620C0

WASHER, FLAT, 0.06

NO. 0

2

32

NAS13521N-00-3

SCREW, SOCKET HEAD

31

2

30

NAS1352N02-5

SCR, SHC .086-56 X 0.312

2-56 X .312

2

29

NAS1291C02M

NUT, SLF-LCK .086-56

4

28

NAS620C2

WASHER, FLAT, 0.086

NO. 2

27

AR

26

AA59551-S22S1B

WIRE, ELEC, SOLID

22 AWG

A-A59551

AR

25

178-8111

WIRE, ELEC, HV, FEP INSUL

24 AWG

24

AR

23

A-A52081-C-4

LACING TAPE

.054 - .066

A-A52081

22

21

AR

20

ECCOBOND 58C

SILVER FILLED EPOXY

3MVX6

AR

19

CAB-O-SIL

3F733

AR

18

PARYLENE C

99384

AR

17

ARATHANE 5753

99384

16

AR

15

SCOTCH-WELD 1838

AR

14

ARATHANE BORON / NITRIDE

99384

13

AR

12

THT-45-477-10

LABEL, POLYIMIDE

3WAW1

AR

11

R6006

BRADY RIBBON

3WAW1

AR

10

EPON 828

MARKING INK

1YWJ5

9

AR

8

SN96.5/AG3.5

SOLDER ALLOY, HI-TEMP

IPC J-STD-006

AR

7

SN62PB36AG02

SOLDER ALLOY

IPC J-STD-006

AR

6

SN63PB37

SOLDER ALLOY

IPC J-STD-006

5

2

4

7464-3054-01

PWA DAUGHTER BOARD

BOARD A & B

REF

3

D

7464-3001

SCHEMATIC

1

2

A

7464-3002

ELECTRICAL PARTS LIST

1

1

D

7464-3004-01

PRINTED WIRING BOARD

MAIN BOARD

-09

ITEM

DWG

PART OR IDENTIFYING

CIRCUIT

NOMENCLATURE OR DESCRIPTION

STOCK SIZE

MATERIAL AND/OR MATERIAL

CAGE

REV

QTY

NO.

SIZE

NUMBER

SYMBOL

OR ZONE

ASSY

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED

DECIMALS

XXX = ± .01

XXX = ± .030

ANGULAR ± 1/2°

DIM. & TOL. PER ASME Y14.5M-1994

BREAK SHARP EDGES

REMOVE ALL BURRS

SCALE

NONE

DO NOT SCALE PRINT

SHEET

1

OF

4

CAD SYSTEM IDENT

MENTOR GRAPHICS EE7.9

APL CAD FILE IDENT

7464-3000

THIS DOCUMENT CONTAINS INFORMATION THAT IS SUBJECT TO THE INTERNATIONAL TRAFFIC IN ARMS REGULATIONS (22 CFR pt. 120 et seq.) OR THE EXPORT ADMINISTRATION REGULATIONS (15 CFR pt. 730 et seq.). EXPORT, INCLUDING DISCLOSURE TO FOREIGN PERSONS IN THE UNITED STATES, WITHOUT PRIOR AUTHORIZATION, IS PROHIBITED.

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1

DWG NO.

7464-3000

2

D

D

C

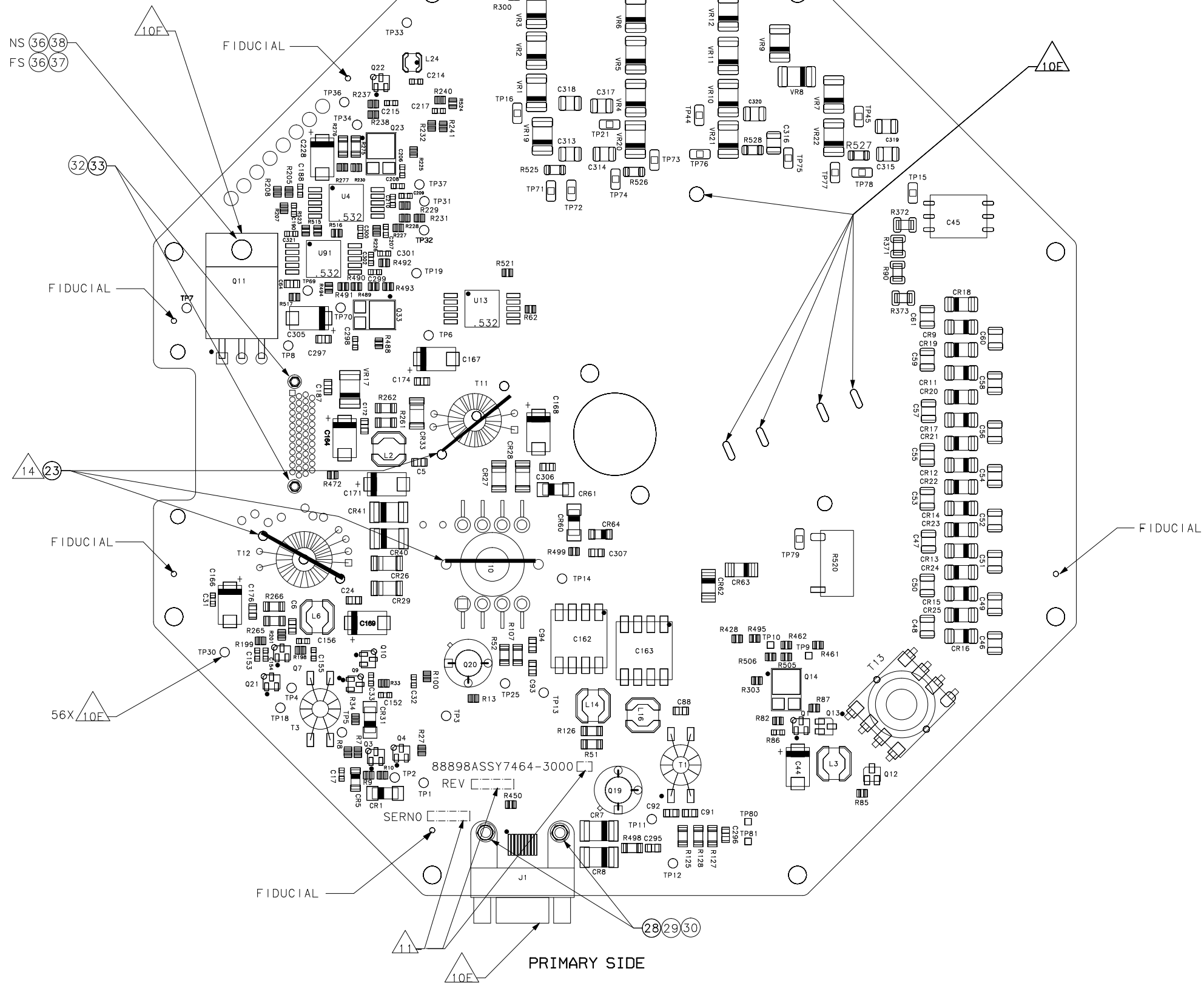
C

B

B

A

A

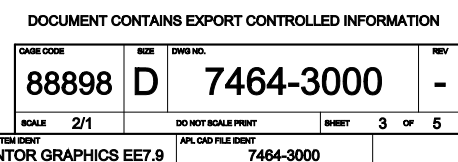


DOCUMENT CONTAINS EXPORT CONTROLLED INFORMATION

CAGE CODE	SIZE	DWG NO.	REV
88898	D	7464-3000	-

SCALE	DO NOT SCALE PRINT	SHEET	2 OF 5
2/1			

GAD SYSTEM IDENT
MENTOR GRAPHICS EE7.9APL GAD FILE IDENT
7464-3000

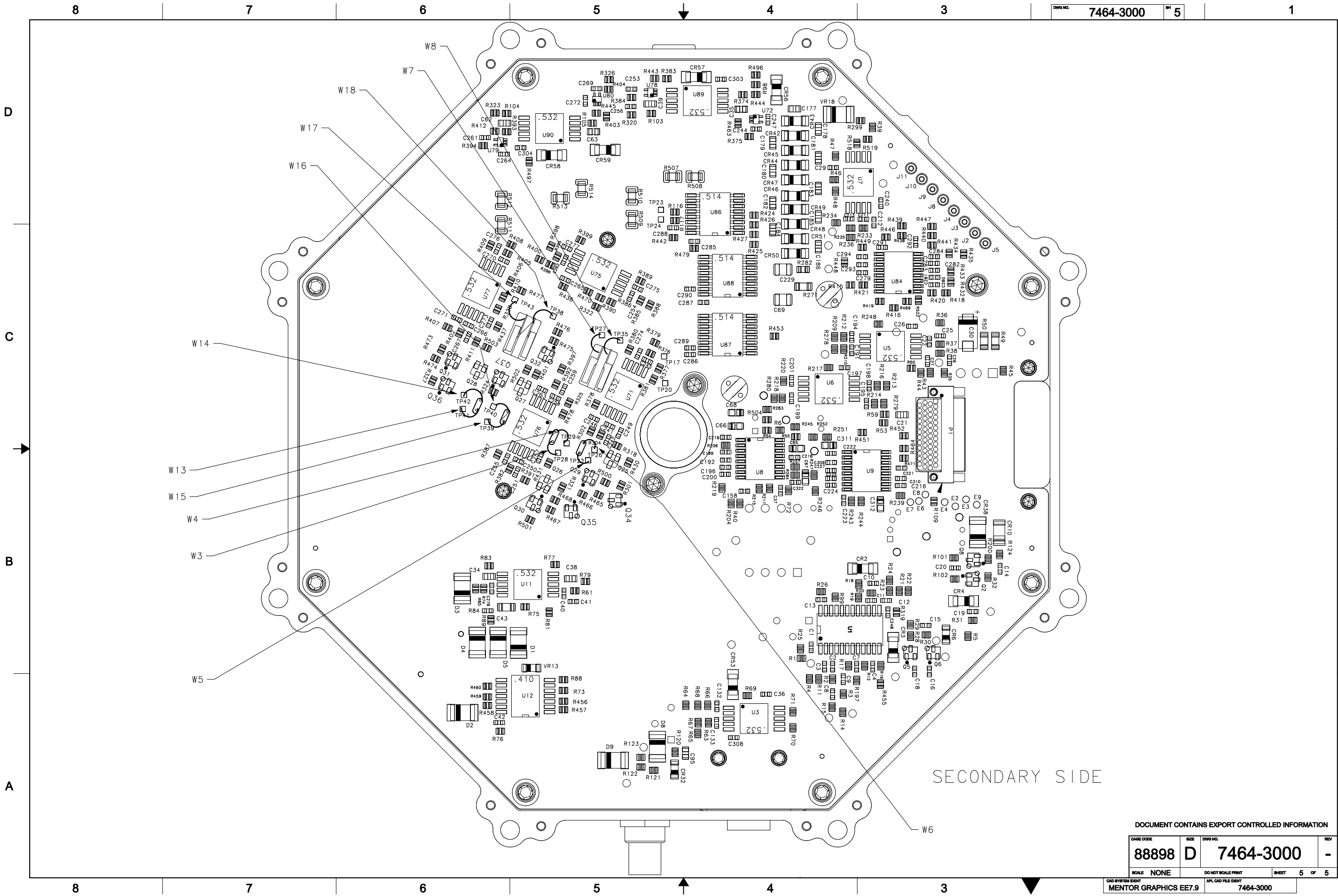




(HV)
(LV)

CAGE CODE	SIZE	DWG NO.	REVISION
88898	D	7464-3000	-

SCALE	NONE	DO NOT SCALE PRINT	SHEET	4	OF	5
ITEM IDENT TOR GRAPHICS EE7.9		APL CAD FILE IDENT 7464-3000				



DOCUMENT CONTAINS EXPORT CONTROLLED INFORMATION

CAGE CODE	SIZE	DWG NO.	REV
88898	D	7464-3000	-

SCALE	NONE	DO NOT SCALE PRINT	SHEET	5	OF	5
CAD SYSTEM IDENT	MENTOR GRAPHICS EE7.9	APP CAD FILE IDENT	7464-3000			