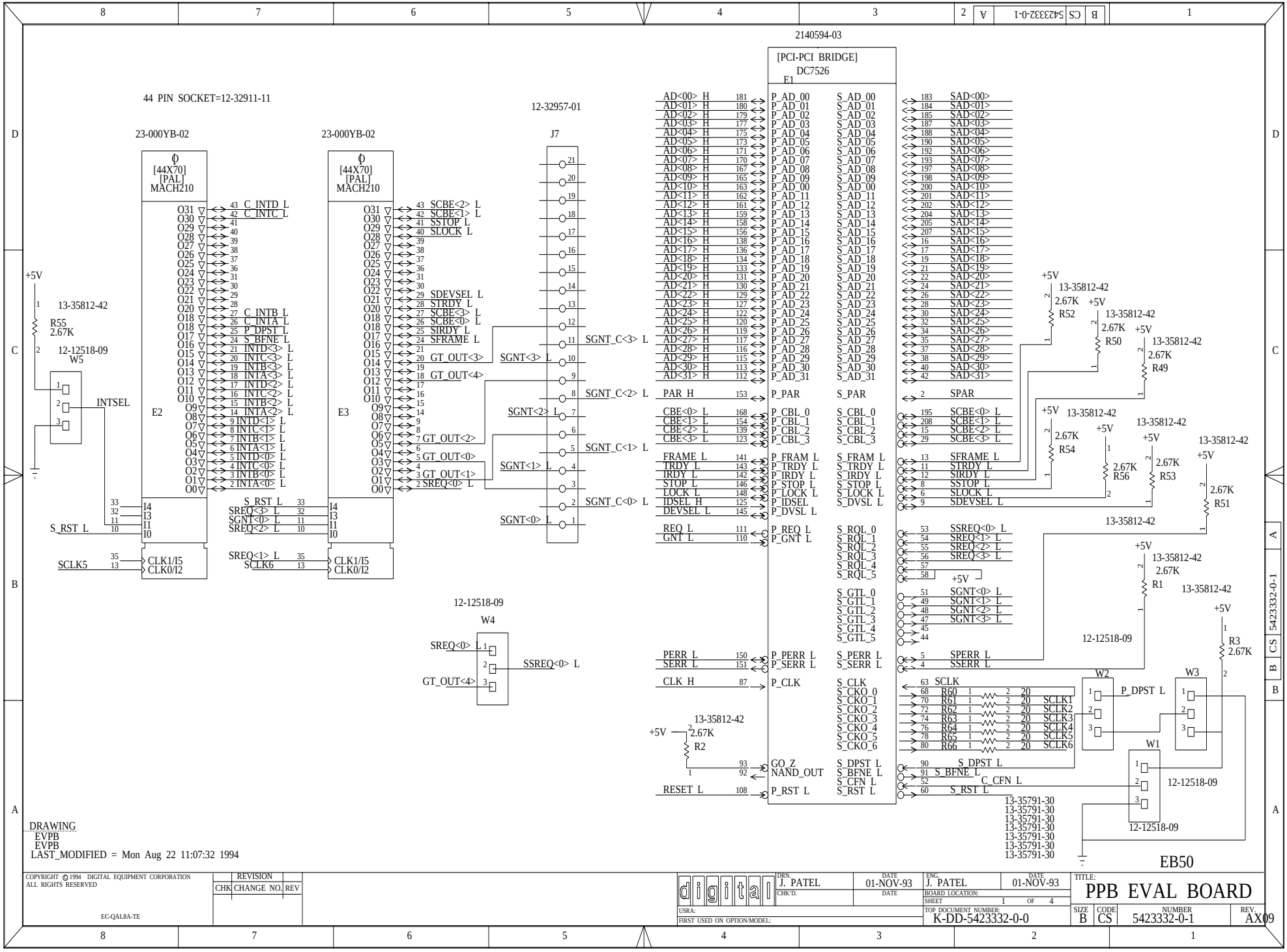

DRAWING
EVPB
EVPB
LAST_MODIFIED = Mon Aug 22 11:07:32 1994

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EC-QAL8A-TE

REVISION		
CHK	CHANGE NO.	REV

DRN. J. PATEL	DATE 01-NOV-93	ENG. J. PATEL	DATE 01-NOV-93
CHK'D.	DATE	BOARD LOCATION:	
USRA:		SHEET 1 OF 4	
FIRST USED ON OPTION/MODEL:		TOP DOCUMENT NUMBER: K-DD-5423332-0-0	

TITLE: PPB EVAL BOARD

SIZE	CODE	NUMBER	REV.
B	CS	5423332-0-1	AX09

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EC-QAL8A-TE

A1 TRST L
A2 +12V
A3 TMS
A4
A5 +5V
A6 C_INTA L
A7 C_INTC L
A8 +5V
A9 RESERVED
A10 +5V
A11 RESERVED
A12
A13
A14 RESERVED
A15 RESET L
A16 +5V
A17 GNT L
A18
A19 RESERVED
A20 AD<30> H
A21 C79 1 2 .01UF 50V
A22 AD<28> H
A23 AD<26> H
A24
A25 AD<24> H
A26 IDSEL H
A27 C78 1 2 .01UF 50V
A28 AD<22> H
A29 AD<20> H
A30
A31 AD<18> H
A32 AD<16> H
A33 C77 1 2 .01UF 50V
A34 FRAME L
A35
A36 TRDY L
A37
A38 STOP L
A39 C76 1 2 .01UF 50V
A40
A41
A42

B1 -12V
B2 TCK H
B3
B4
B5 +5V
B6 +5V
B7 C_INTB L
B8 C_INTD L
B9 PRSNT1 L
B10 RESERVED
B11 PRSNT2 L
B12
B13
B14 RESERVED
B15
B16 CLK H
B17
B18 REQ L
B19 +5V
B20 AD<31> H
B21 AD<29> H
B22
B23 AD<27> H
B24 AD<25> H
B25 C68 1 2 .01UF 50V
B26 CBE<3> L
B27 AD<23> H
B28
B29 AD<21> H
B30 AD<19> H
B31 C69 1 2 .01UF 50V
B32 AD<17> H
B33 CBE<2> L
B34
B35 IRDY L
B36 C70 1 2 .01UF 50V
B37 DEVSEL L
B38
B39 LOCK L
B40 PERR L
B41 C71 1 2 .01UF 50V
B42 SERR L

10-24053-01

A43 PAR H
A44 AD<15> H
A45 C75 1 2 .01UF 50V
A46 AD<13> H
A47 AD<11> H
A48
A49 AD<09> H

10-24053-01

A52 CBE<0> L
A53 C74 1 2 .01UF 50V
A54 AD<06> H
A55 AD<04> H
A56
A57 AD<02> H
A58 AD<00> H
A59 +5V
A60
A61 +5V
A62 +5V

10-24053-01

B43 C72 1 2 .01UF 50V
B44 CBE<1> L
B45 AD<14> H
B46
B47 AD<12> H
B48 AD<10> H
B49

10-24053-01

B52 AD<08> H
B53 AD<07> H
B54 C73 1 2 .01UF 50V
B55 AD<05> H
B56 AD<03> H
B57
B58 AD<01> H
B59 +5V
B60
B61 +5V
B62 +5V

12-16862-04 J1

CLK H	15
SCLK	13
SCLK6	11
SCLK5	9
SCLK4	7
SCLK3	5
SCLK2	3
SCLK1	1

12-16862-04 J2

SAD<00>	15
SAD<01>	13
SAD<02>	11
SAD<03>	9
SAD<04>	7
SAD<05>	5
SAD<06>	3
SAD<07>	1

12-12297-01

J13

+5V	4
	3
	2
	1

ENG. J. PATEL	DATE 01-NOV-93	TITLE: PPB EVAL BOARD	
BOARD LOCATION:			
SHEET 2 OF 4			
TOP DOCUMENT NUMBER: K-DD-5423332-0-0		SIZE B / CODE CS / NUMBER 5423332-0-1	REV. AX09

5423332-0-1 CS B A

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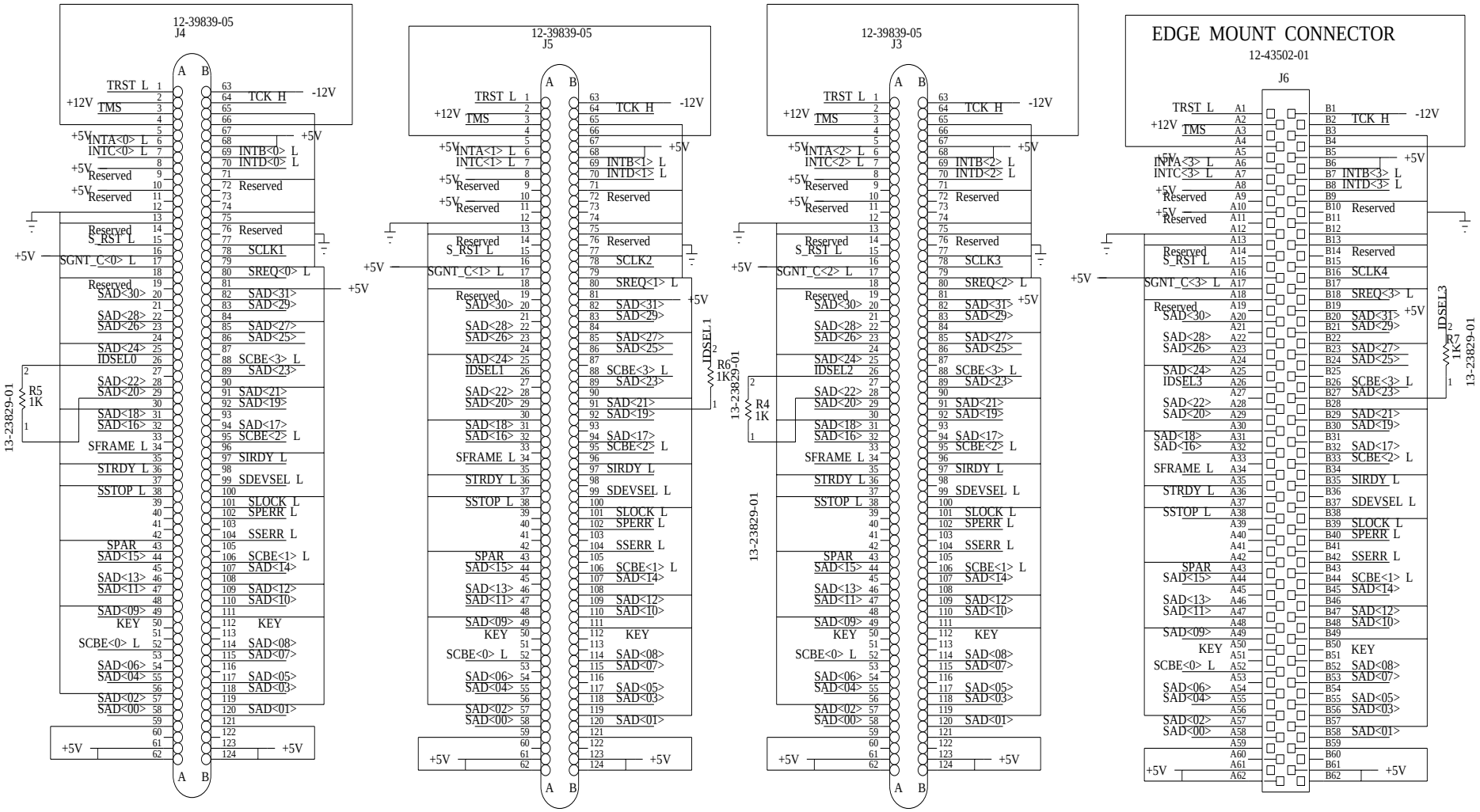

ENG. J. PATEL	DATE 01-NOV-93	TITLE: PPB EVAL BOARD	
BOARD LOCATION:			
SHEET 3 OF 4			
TOP DOCUMENT NUMBER: K-DD-5423332-0-0	SIZE B / CODE CS	NUMBER 5423332-0-1	REV. AX09

5423332-0-1 CS B A

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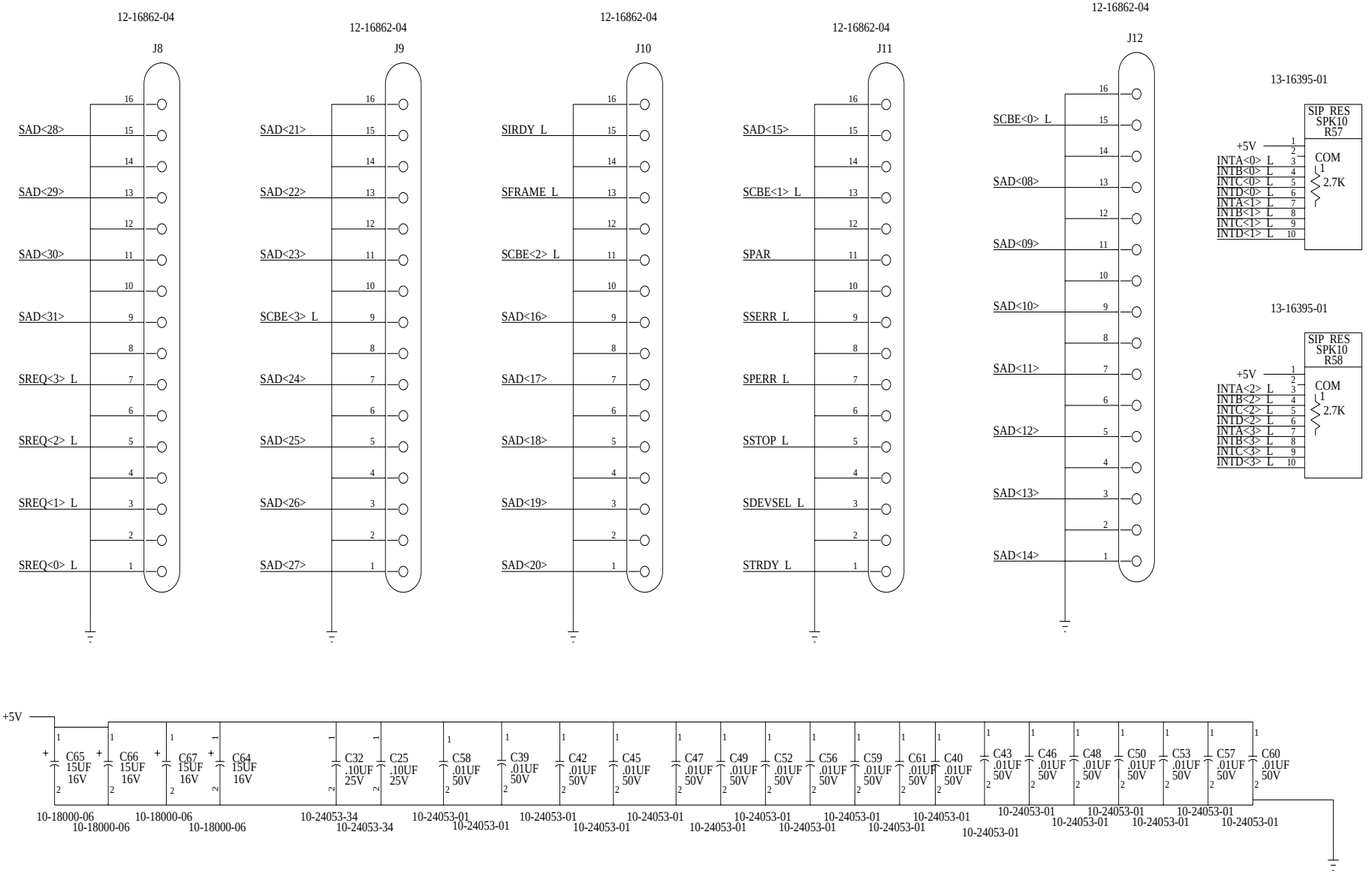

ENG. J. PATEL	DATE 01-NOV-93	TITLE: PPB EVAL BOARD	
BOARD LOCATION:			
SHEET 4 OF 4			
TOP DOCUMENT NUMBER: K-DD-5423332-0-0	SIZE B	CODE CS	NUMBER 5423332-0-1 REV. AX09

5423332-0-1 CS

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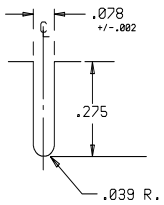
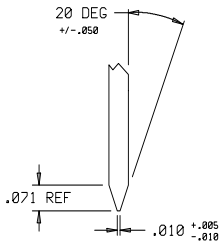
DATE	RESPONSIBLE ENGINEER	ECO NUMBER	REV

VIEWED FROM SIDE 1



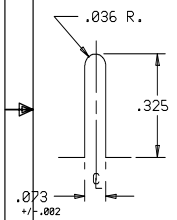
DETAIL C

NO SCALE



SECTION A-A

NO SCALE

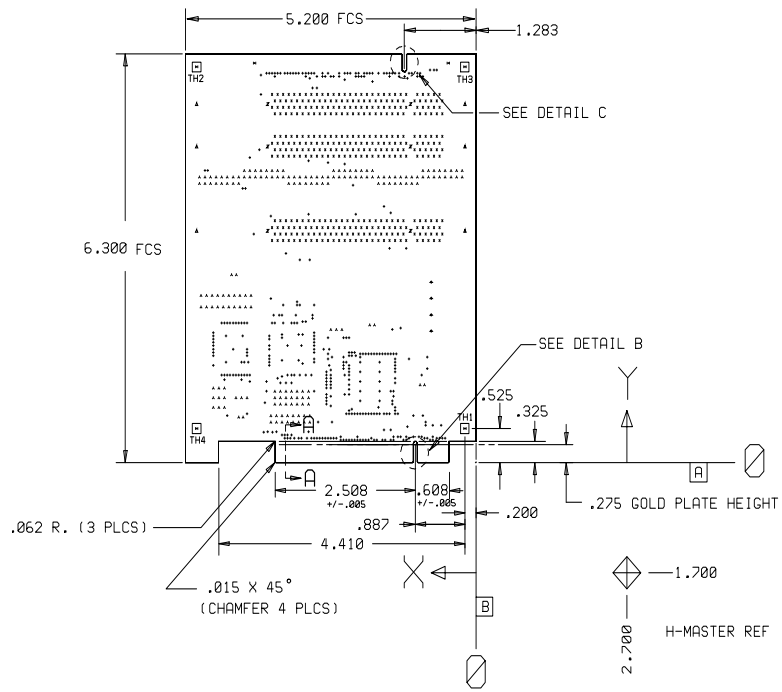


DETAIL B

NO SCALE

NOTES

1. ALL ARTWORK FEATURES, IN BOTH DATA AND FILM, ARE SUPPLIED AT NOMINAL DIMENSIONS. UNLESS OTHERWISE SPECIFIED THE FINISHED CIRCUIT SHOULD REFLECT THESE DIMENSIONS, INCLUDING ALLOWABLE FABRICATION TOLERANCES PER DEC STD-176. SOLDERMASK FEATURES ARE SUPPLIED AT MINIMUM SIZES REFLECTING DESIRED COVERAGE. THESE FEATURES MAY BE MODIFIED TO ACCOMODATE SPECIFIC PROCESSES. REFERENCE DEC STD-176 FOR ASSOCIATED REQUIREMENTS.
2. VENDOR TO NICKEL AND GOLD PLATE FINGERS PER DEC STD 176.
3. ALL .015 DIA HOLES TO BE DRILLED AT .015 DIA MIN.



HI-POT TEST COORDINATES ALL COORDINATES FROM H-MASTER ZERO	
X COORD	Y COORD
POWER	
3.250	2.100
GROUND	
3.475	2.050

HOLE DATA (FOR STANDARD HOLE TOLERANCES USE DEC STD 176)	
SYMBOL	
FINISHED HOLE SIZE (INCHES)	
POSITIVE TOLERANCE (INCHES)	
NEGATIVE TOLERANCE (INCHES)	
FINISHED HOLE SIZE (mm)	
POSITIVE TOLERANCE (mm)	
NEGATIVE TOLERANCE (mm)	
PLATED?	
QUANTITY	

FROM LAYER _____ TO LAYER _____

FABRICATION INFORMATION: MATERIAL AND WORKMANSHIP FOR ALL FABRICATED PRINTED WIRING BOARDS MUST MEET THE REQUIREMENTS OF DEC STD 176

FABRICATE BOARD PER: _____ AS SHOWN X | STEP AND REPEAT CODE: NONE | PRESS FIT COMPONENTS: YES ____ NO X

DESIGN INFORMATION
NUMBER OF LAYERS: 4 LAYER CONSTRUCTION: C-MD-ELEN630-8-0 AS SHOWN __
CONTROLLED IMPEDANCE: YES ___ NO X CONTROLLED CAPACITANCE: YES ___ NO X
SURFACE MOUNT TECH / MINIMUM PITCH: SIDE 1 .025 SIDE 2 >.050
PLANAR RESISTOR TECHNOLOGY: YES ___ NO X NUMBER OF PRT LAYERS ___
BOARD FINISH: REFLOW TIN LEAD ___ HASL X ALL COPPER ___ OTHER _____
SOLDERMASK: NONE __ SIDE 1 X SIDE 2 X | SMOBC: YES X NO __
NOMENCLATURE: NONE __ SIDE 1 X SIDE 2 X | TENTED VIAS: YES __ NO X
MINIMUM VIA HOLE SIZE: .015 MINIMUM COMPONENT HOLE SIZE: .038
PAD EXPANSION: OUTER LAYERS X SIGNAL INNER LAYERS ___ NONE ___
INCIRCUIT THIEVING: NONE __ SIDE 1 X SIDE 2 X AS SHOWN __
TECHNOLOGY (LW/LS): LINE .006 SPACE .007
CIRCUIT OUTLINE/FINGER DETAIL: _____ AS SHOWN X
SPECIAL REQUIREMENTS: _____

TOLERANCES INCHES UNLESS OTHERWISE SPECIFIED		
INCHES	mm	ANGLES
.XXX ± .010	,XX ± ,25	±0 DEG
.XX ± .020	,X ± ,50	30 MIN
.X ± .100	X, ± 2,50	
APPROVALS		DATE
DRAWN: J. CUNNINGHAM		27JUL94
CHECKED: W. SUPINSKI		27JUL94
MECH ENG:		
PROJ ENG:		
MFG ENG:		
SCALE: 1-1		
SHEET 1 OF 2		
TOP DOC NO: K-DD-5023331-0-0		

digital™

TITLE:

CIRCUIT DRILL AND ETCH DRAWING

SIZE	CODE	NUMBER	REV
D	MD	5023331-0-0	AX04

ETCH REV: C1 MEDIA: K

1 WO# 298173

SIZE	CODE	NUMBER	REV
D	MD	5023331-0-0	AX04

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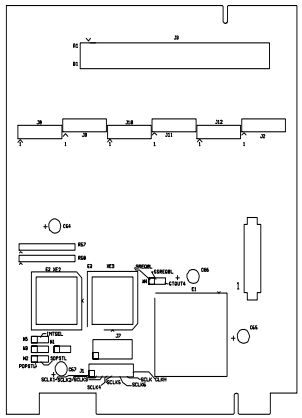
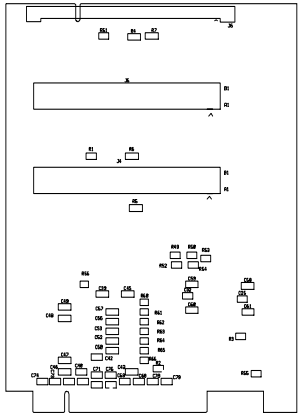
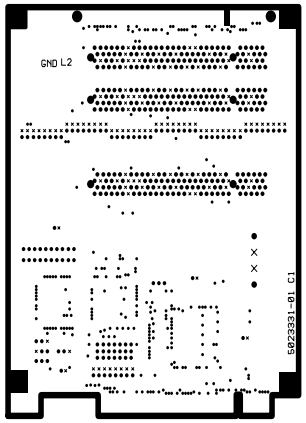
SILK SCREEN VIEWED FROM SIDE 1



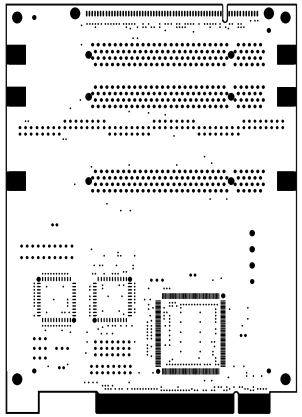
SILK SCREEN VIEWED FROM SIDE 2



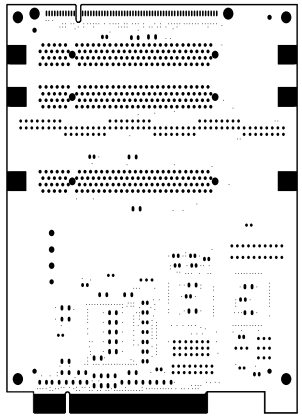
LAYER 2 VIEWED FROM SIDE 1



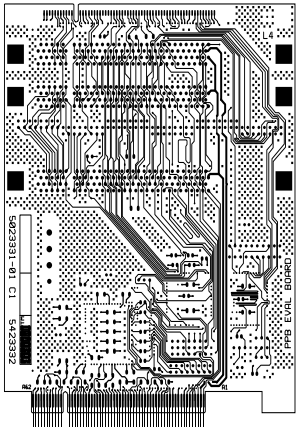
SOLDERMASK SIDE 1 VIEWED FROM SIDE 1



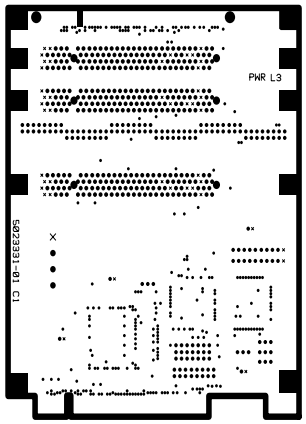
SOLDERMASK SIDE 2 VIEWED FROM SIDE 2



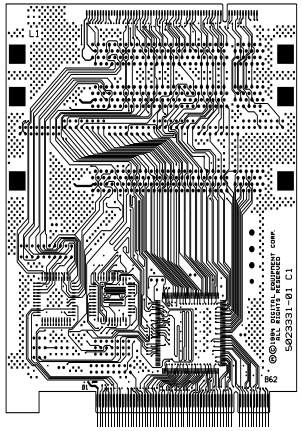
LAYER 4 VIEWED FROM SIDE 2



LAYER 3 VIEWED FROM SIDE 2



LAYER 1 VIEWED FROM SIDE 1



TITLE	DOCUMENT NUMBER			
CIRCUIT DRILL AND ETCH DRAWING	SIZE	CODE	NUMBER	REV
	D	MD	5023331-0-0	AX04
	SCALE 1-1		MEDIA= K SHEET 2 OF 2	

1 WO# 298173

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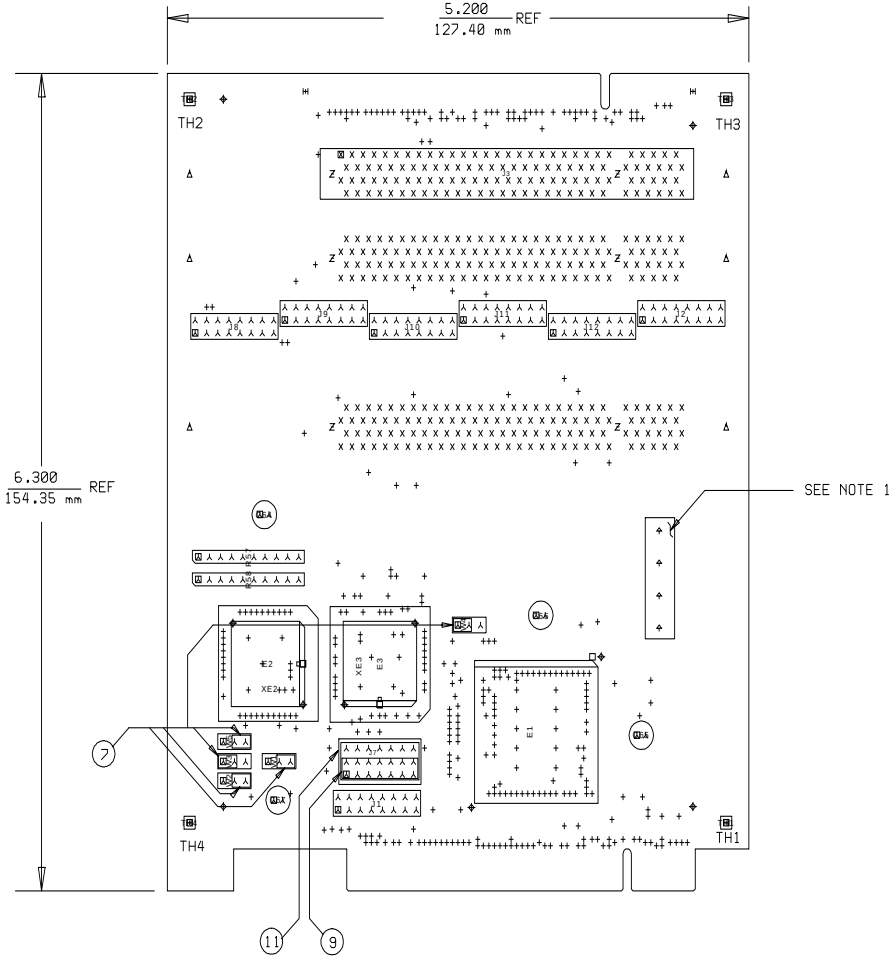
VIEWED FROM SIDE 1



DATE	RESPONSIBLE ENGINEER	ECO NO	REV

DATE	RESPONSIBLE ENGINEER	ECO NO	REV

NOTES:
1. OPTIONAL 4 PIN MATE N LOC CONNECTOR LOCATION.

DESIGN INFORMATION

SURFACE MOUNT TECHNOLOGY: SIDE 1 X SIDE 2 X NONE ___

APPROVALS	DATE
DRAWN: J. CUNNINGHAM	27JUL94
CHECKED: W. SUPINSKI	27JUL94
MECH ENG:	
PROJ ENG:	
MFG ENG:	

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TITLE: PPB EVAL BOARD

SCALE: 2/1	SIZE	CODE	NUMBER	REV
SHEET 1 OF 5	D	UA	5423332-0-0	AX04
TOP DOC NO: K-DD-5423332-0-0	ETCH REV C1		MEDIA- K	

1 WO# 298173

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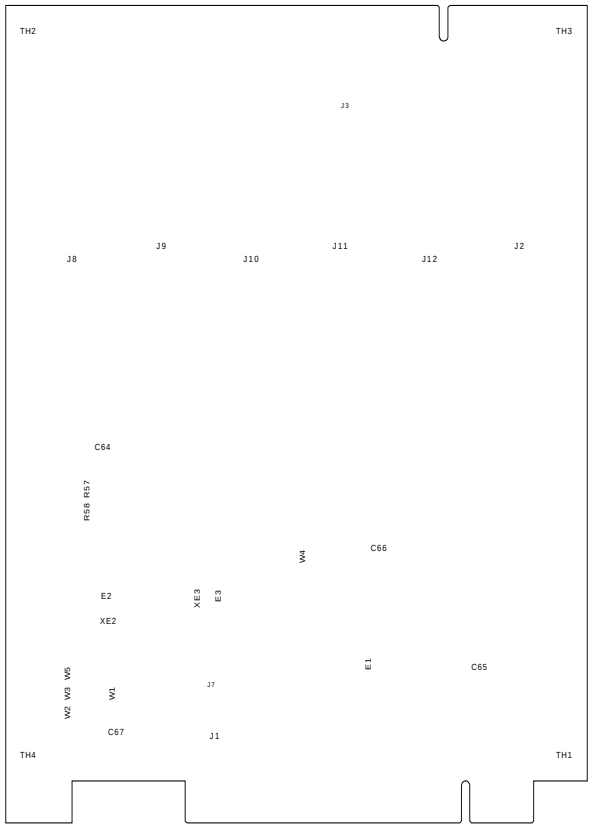
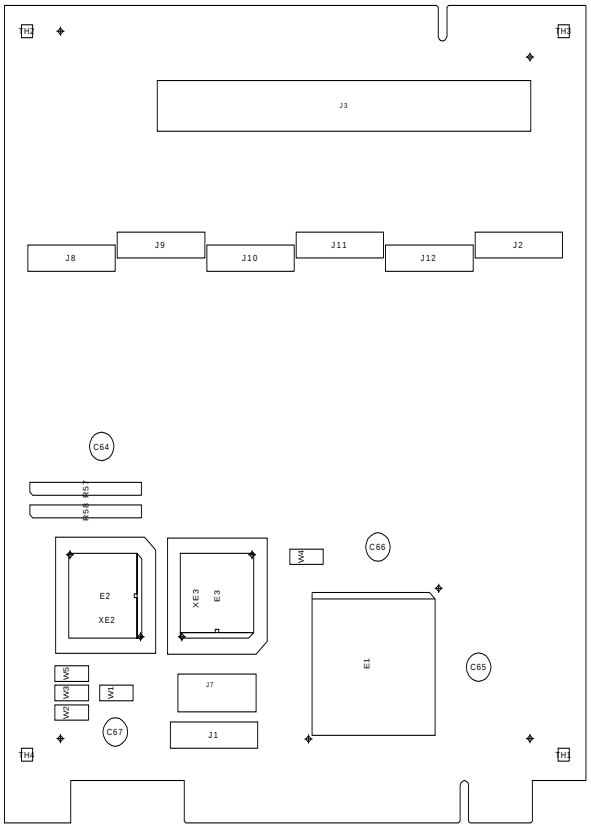
VIEWED FROM SIDE 1



VIEWED FROM SIDE 1



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	SIZE	CODE	NUMBER	REV
PPB EVAL BOARD	D	UA	5423332-0-0	AX04
	SCALE 2/1		MEDIA= K SHEET 2 OF 5	

1 WO# 298173

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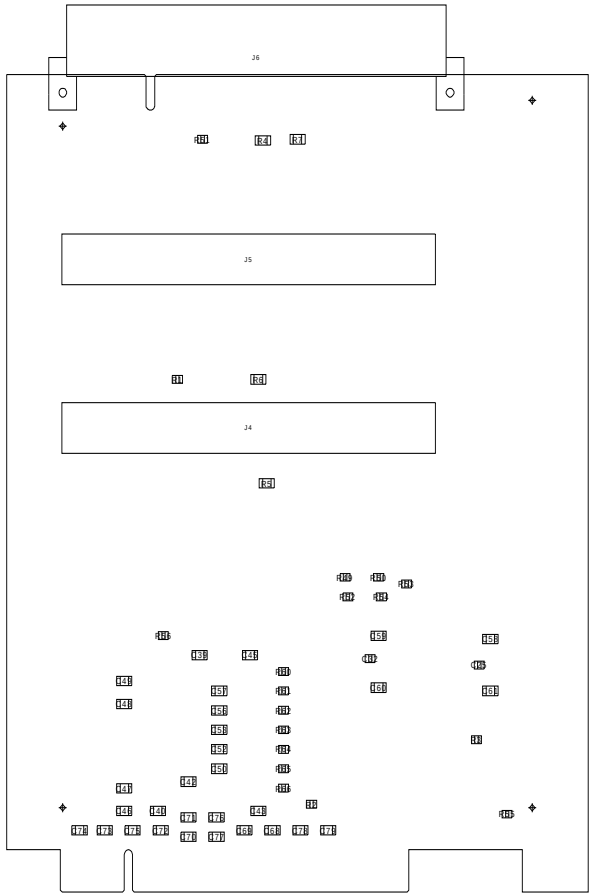

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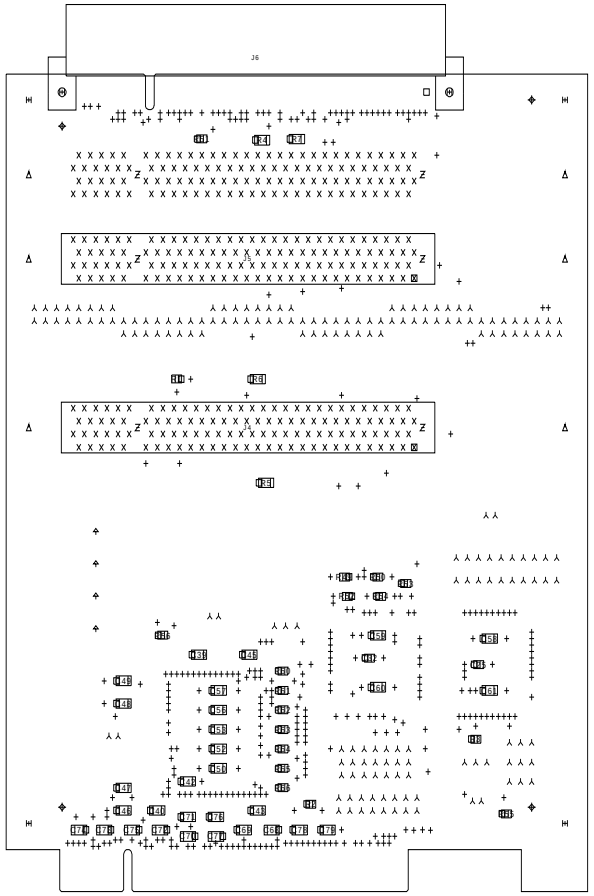

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PPB EVAL BOARD	SIZE	CODE	NUMBER	REV
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	SCALE 2/1		MEDIA= K SHEET 3 OF 5	

1 WO# 298173

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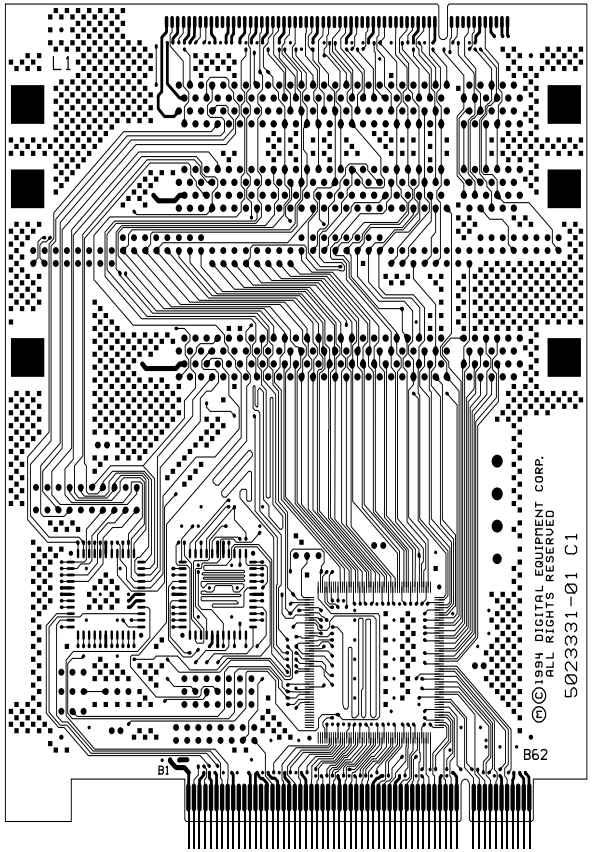
LAYER 1 VIEWED FROM SIDE 1



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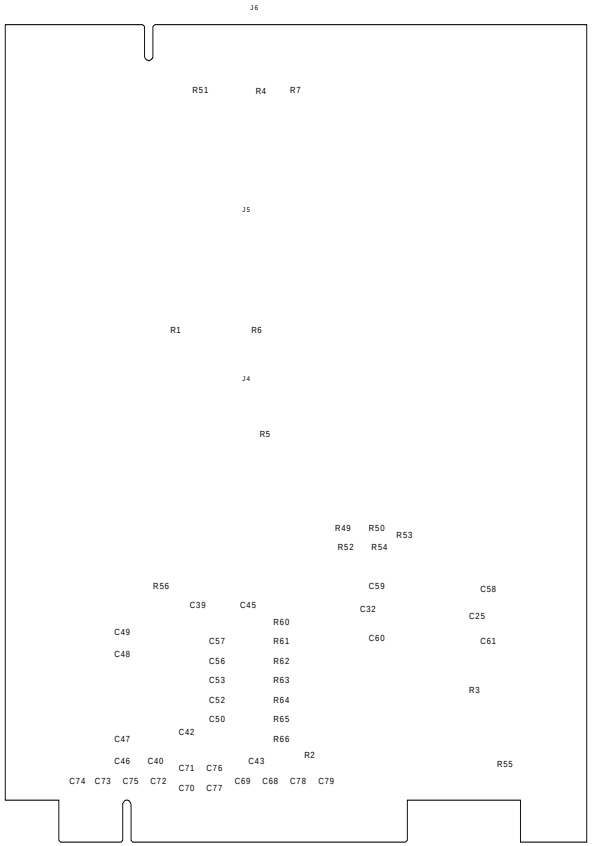

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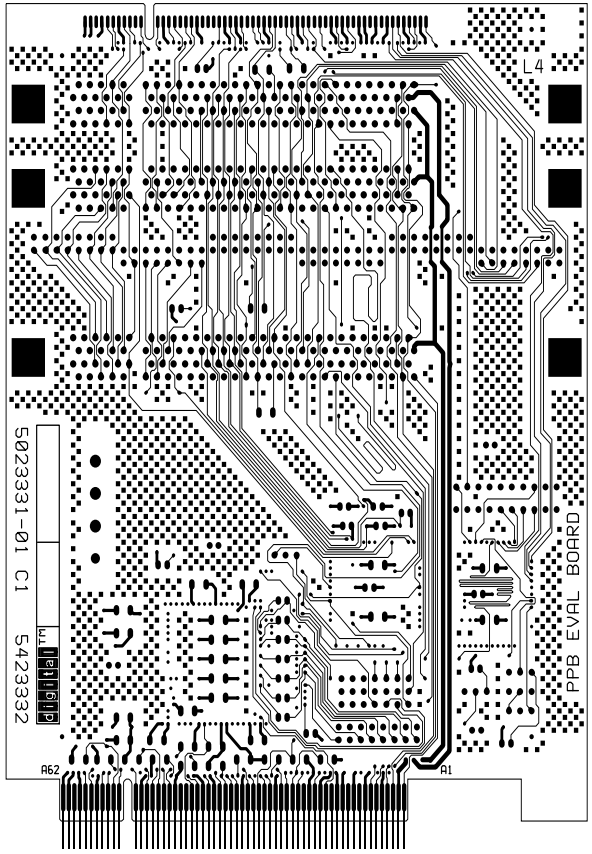
LAYER 4 VIEWED FROM SIDE 2



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1 WO# 298173