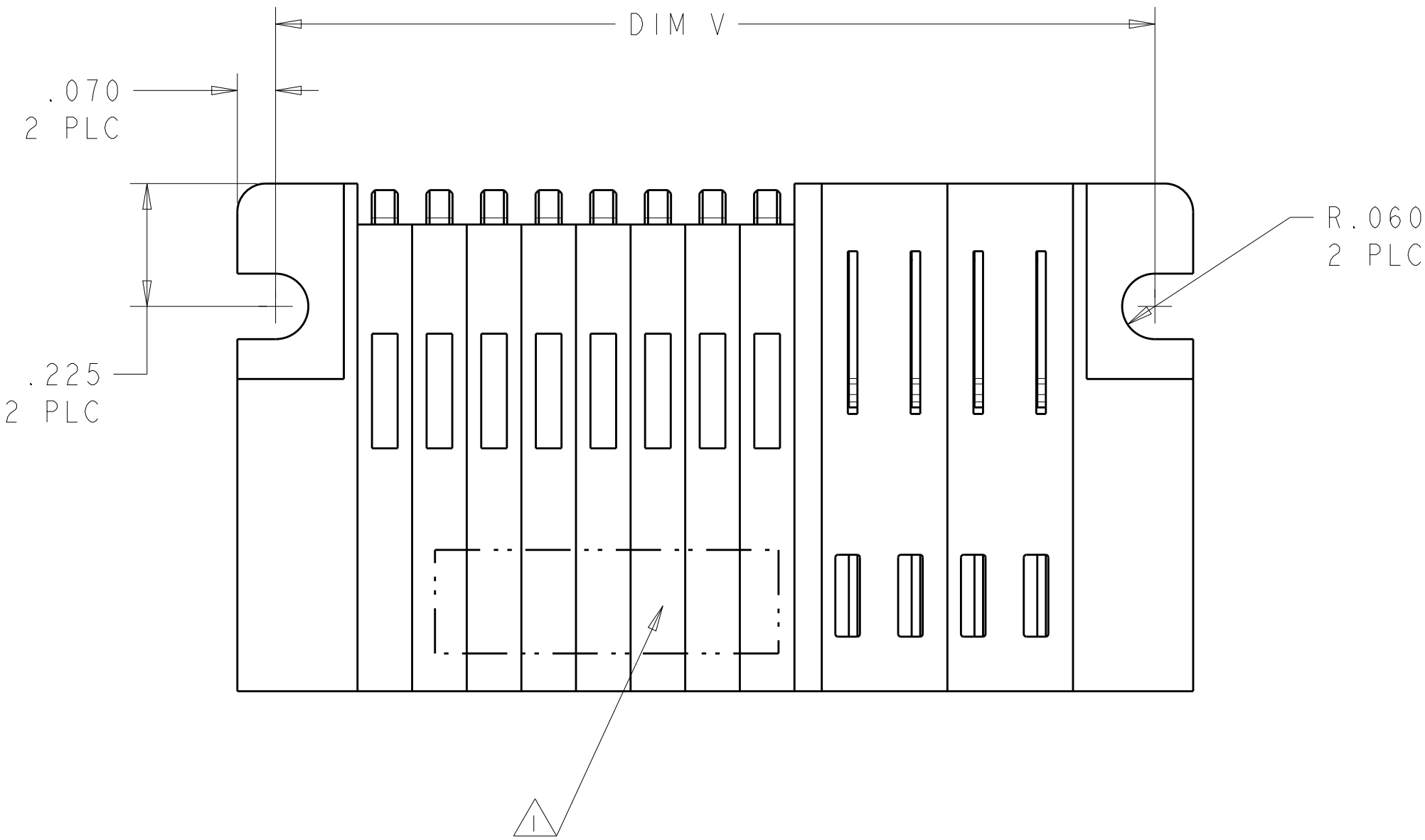
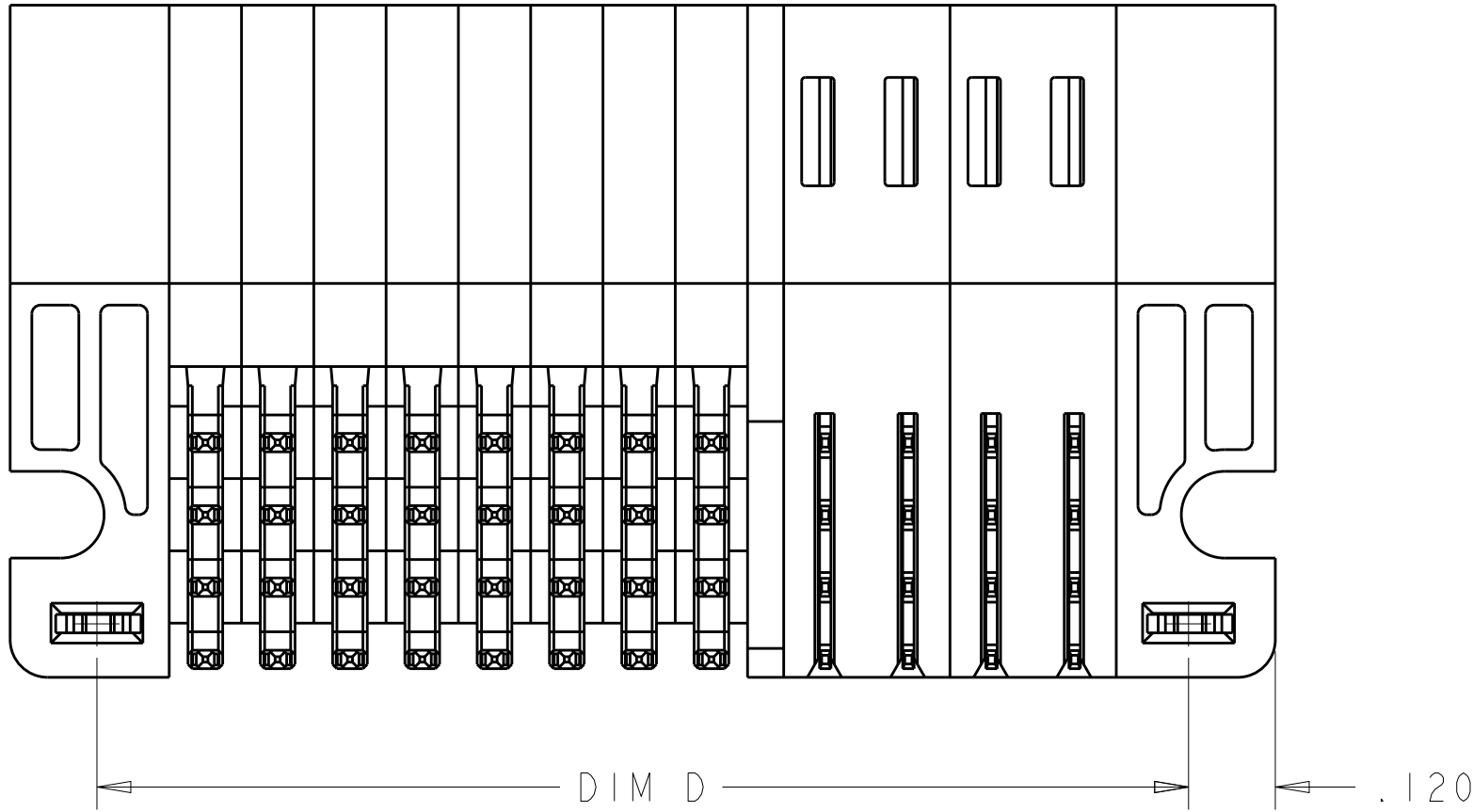
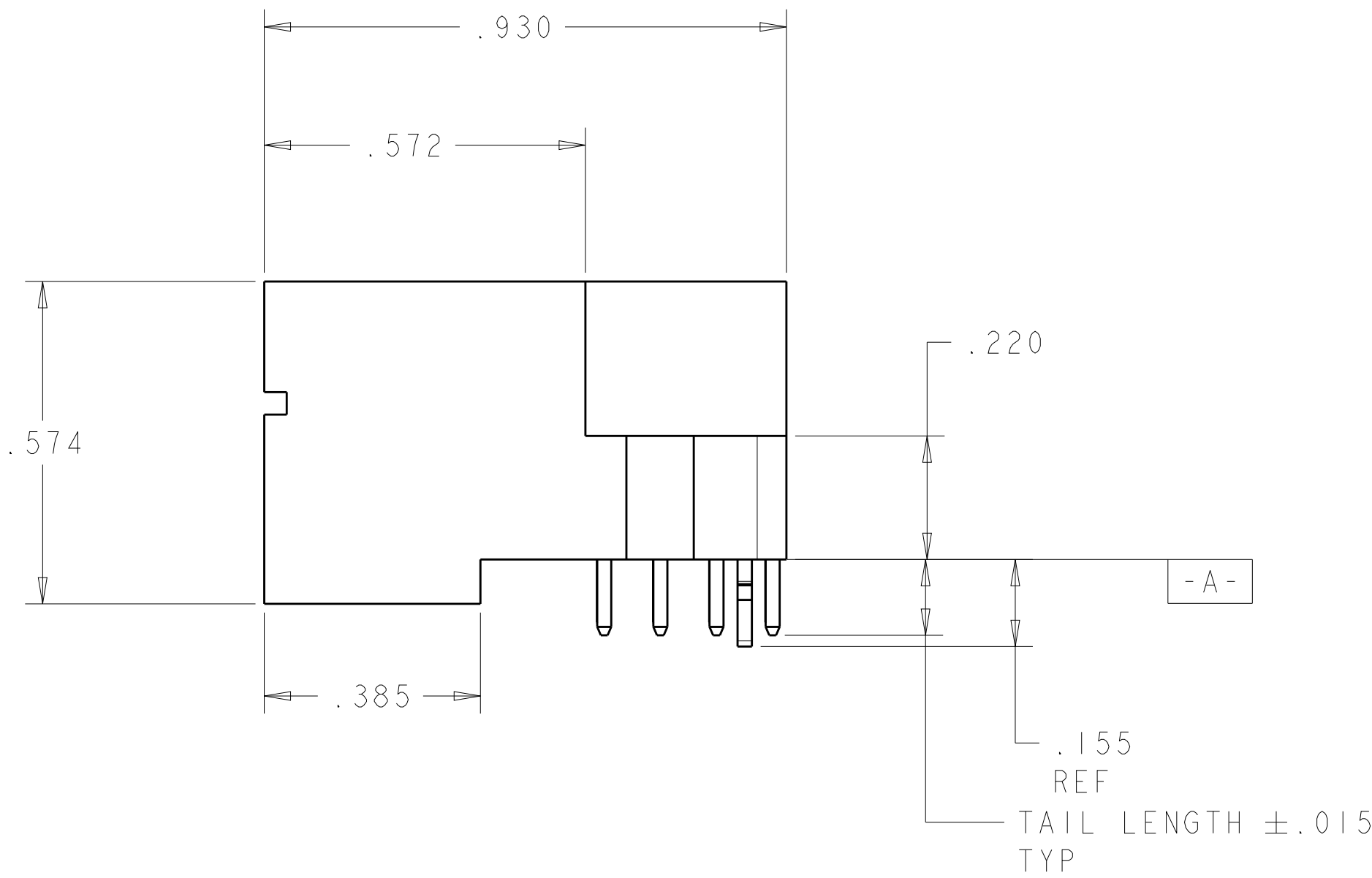
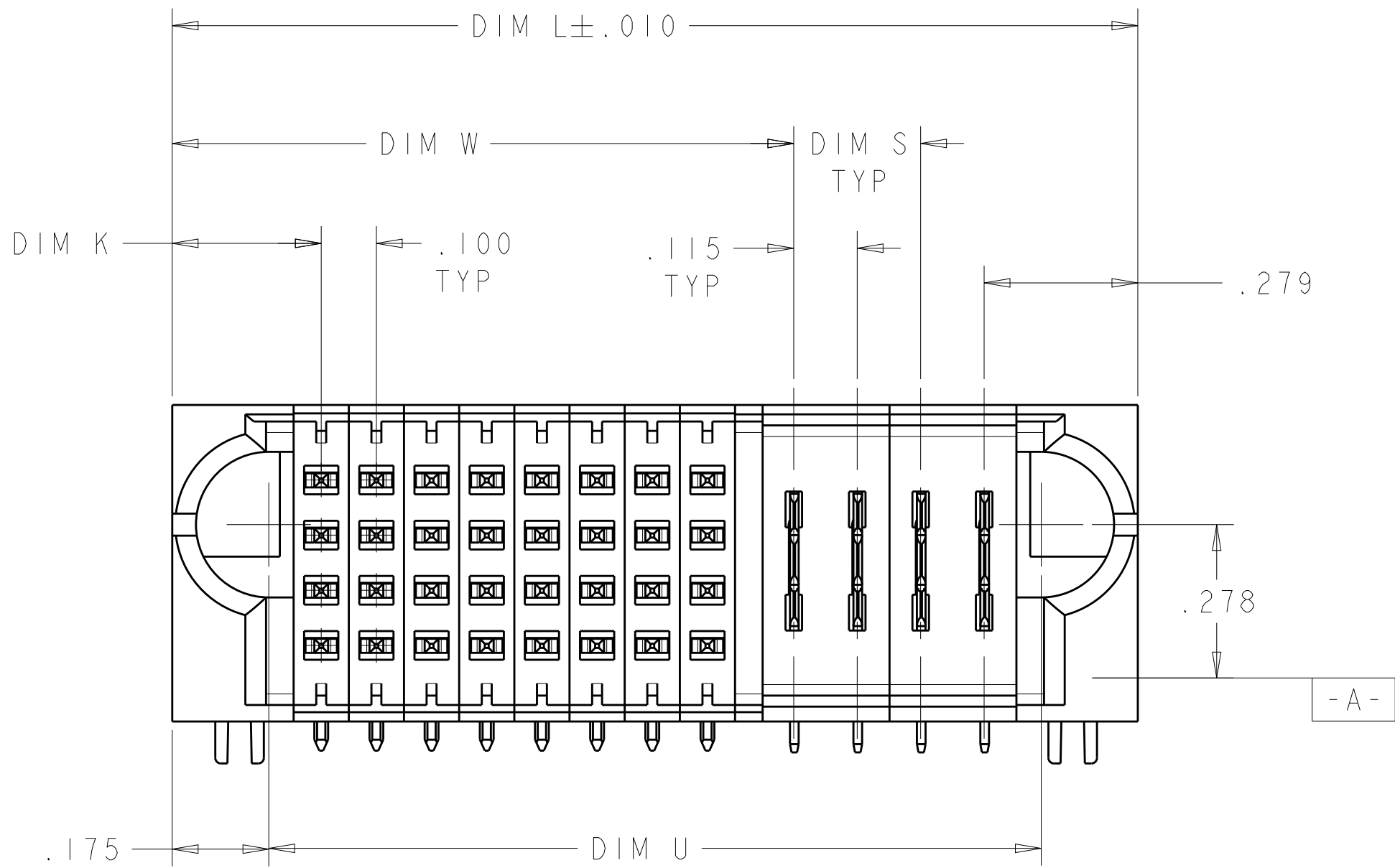


LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
			L1	REVISED FOR 2-6	14MAY2014	CZ	SZ
			L5	ADD NEW DASH NUMBER 3-4	22SEP2014	CZ	SZ
			L6	ADD 3-6 PER ECO-14-018856	31DEC2014	CZ	SZ

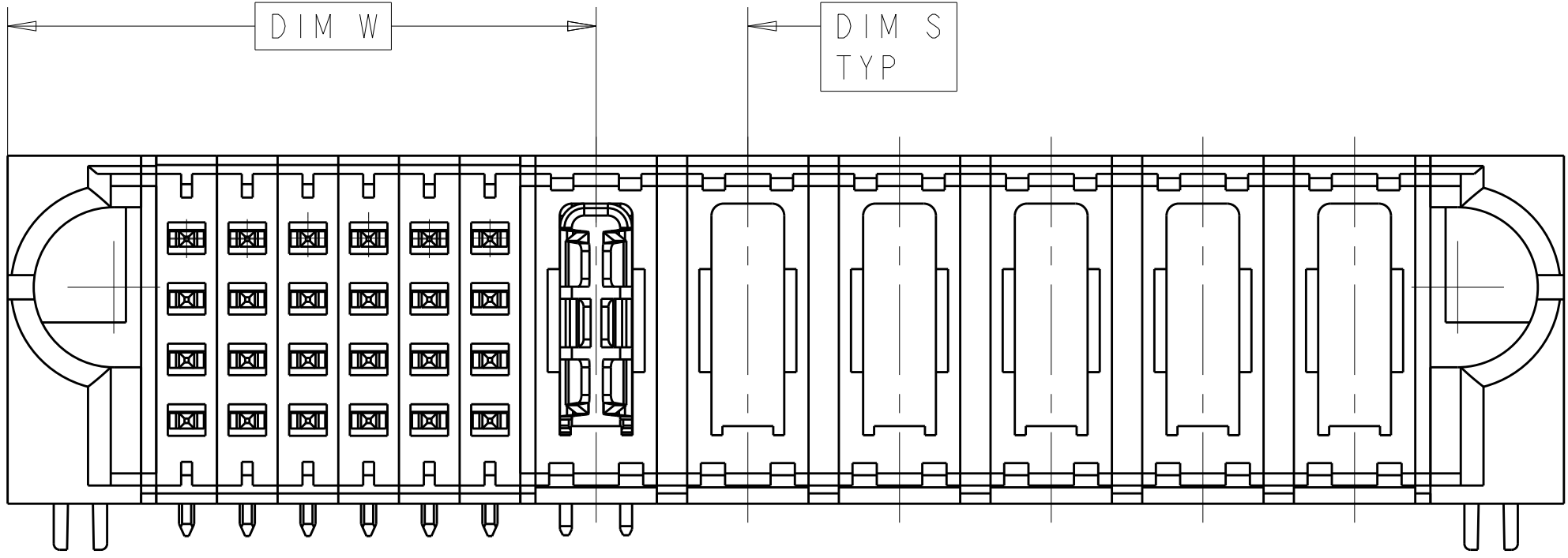


- 1 "AMP", PART NUMBER AND DATE CODE TO BE MARKED IN AREA SHOWN
PARTS UNDER 2.00 LONG MAY BE MARKED ON BOTH SIDES
- 2 MATERIAL: HOUSING - GLASS FILLED HIGH TEMP THERMO PLASTIC, BLACK, UL94 V-0
SIGNAL CONTACT - HIGH CONDUCTIVITY COPPER ALLOY
POWER CONTACT - HIGH CONDUCTIVITY COPPER ALLOY
- 3 CONTACT PLATING: NOBLE METAL PLATING ON CONTACT FUNCTIONAL AREA OF POWER
AND SIGNAL CONTACTS
- 4 MECHANICAL CONNECTOR KEEP OUT ZONE
- 5 DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER
- 6 PCB - ALL HOLE DIAMETERS ARE FINISHED HOLE SIZES
- 7 PCB - 0.0453 ±.0010 DRILLED HOLES PLATED WITH .0003 MIN Sn
OVER .001 TO .003 Cu PLATING TO ACHIEVE A .040 ±.030 HOLE
- 8 FOR "S+P" CONFIGURATION , VARIABLE DIMENSIONS PLEASE REFER TO SHEET 2.
- 9 VARIABLE DIMENSIONS PLEASE SEE TABLE.



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C. ZHOU CHK S. ZHAO APVD S. YAO	15OCT2007 15OCT2007 -	TE Connectivity	
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME R/A HEADER WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE	
		0 PLC	±"	PRODUCT SPEC	SIZE A1
		1 PLC	±.01	108-2292	
		2 PLC	±.01	APPLICATION SPEC	
		3 PLC	±.005	108-13038	
MATERIAL		ANGLES	±.0020	WEIGHT	Customer Drawing
FINISH		FINISH	±.0020	SCALE	
2		3		4:1	SHEET 1 OF 17
				REV	7

LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-	-	SEE SHEET 1	-	-	-



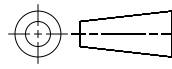
 FOR "S+P" CONFIGURATION
UNSPECIFIED DIMENSIONS REFER TO SHEET 1

(L6)	.600	.700	.490	-	-	.270	.840	16S	3-6450831-6
	3.800	3.900	3.690	.200	3.120	.270	4.040	112S + 4HDP	3-6450831-4
	2.920	3.020	2.810	.250 	.845 	.270	3.160	20S + 4P + 3LP	3-6450831-0
	2.250	2.350	2.140	.200 	.745 	.270	2.490	16S + 8HDP	2-6450831-9
	3.450	3.550	3.340	.300 	1.220 	.270	3.690	32S + 8ACP	2-6450831-8
	2.250	2.350	2.140	.300 	1.220 	.270	2.490	32S + 4ACP	2-6450831-7
	1.750	1.850	1.640		.745 	.270	1.990	16S + 4P	2-6450831-6
	4.125	4.225	4.015	.375 	.995 	.270	4.365	24S + 9P	2-6450831-5
	2.800	2.900	2.690	.250 	.945 	.270	3.040	24S + 8P	2-6450831-4
	3.225	3.325	3.115	.200 	.945 	.270	3.465	24S + 12HDP	2-6450831-3
	4.400	4.500	4.290	 - 	1.995	.270	4.64	64S+4P+2HDP+5P	2-6450831-2
	.875	.975	.765	-	-	.345	1.115	24S	2-6450831-1
	.875	.975	.765	-	-	.345	1.115	24S	2-6450831-0
	1.625	1.725	1.515	.200 	.945 	.270	1.865	24S + 4P	1-6450831-9
	3.600	3.700	3.490	.250	.770	.295	3.840	16S + 12P	1-6450831-8
	3.100	3.200	2.990	.250	.770	.295	3.340	16S + 10P	1-6450831-7
	3.100	3.200	2.990	.250	.770	.295	3.340	16S + 10P	1-6450831-6
	.600	.700	.490	-	-	.270	.840	16S	1-6450831-5
	4.500	4.600	4.390	.250 	1.145 	.270	4.74	32S + 14P	1-6450831-4
	3.250	3.350	3.140	.225 	1.145 	.270	3.490	32S + 10P	1-6450831-3
	3.300	3.400	3.190		1.170 	.270	3.540	32S + 10P	1-6450831-2
	.800	.900	.690	-	-	.270	1.040	24S	1-6450831-1
	2.325	2.425	2.215	.250 	.970 	.295	2.565	24S + 6P	6450831-9
	2.825	2.925	2.715	.250 	.970 	.295	3.065	24S + 8P	6450831-7
	2.325	2.425	2.215	.250 	.970 	.295	2.565	24S + 6P	6450831-6
	2.000	2.100	1.890	-	-	.270	2.240	72S	6450831-5
	.800	.900	.690	-	-	.270	1.040	24S	6450831-4
	5.405	5.505	5.295	-	5.2275	.295	5.645	196S + 2LP	6450831-3
	1.510	1.610	1.400	.230	1.1275	.270	1.750	32S + 4LP	6450831-1
	DIM D	DIM V	DIM U	DIM S	DIM W	DIM K	DIM L	DESCRIPTION	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:

INCHES



TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±.01
1 PLC ±.01
2 PLC ±.01
3 PLC ±.005
4 PLC ±.0020
ANGLES ±.2°
FINISH

MATERIAL

-

DWN
C. ZHOU
CHK
S. ZHAO
APVD
S. YAO

15OCT2007
15OCT2007
-

PRODUCT SPEC
108-2292
APPLICATION SPEC
108-13038
WEIGHT
-

Customer Drawing

NAME
R/A HEADER WITH SHORT GUIDES
AND LP CONTACTS ASSEMBLY
MULTI-BEAM XLE

SIZE
A1

CAGE CODE
00779

DRAWING NO
6450831

RESTRICTED TO
-

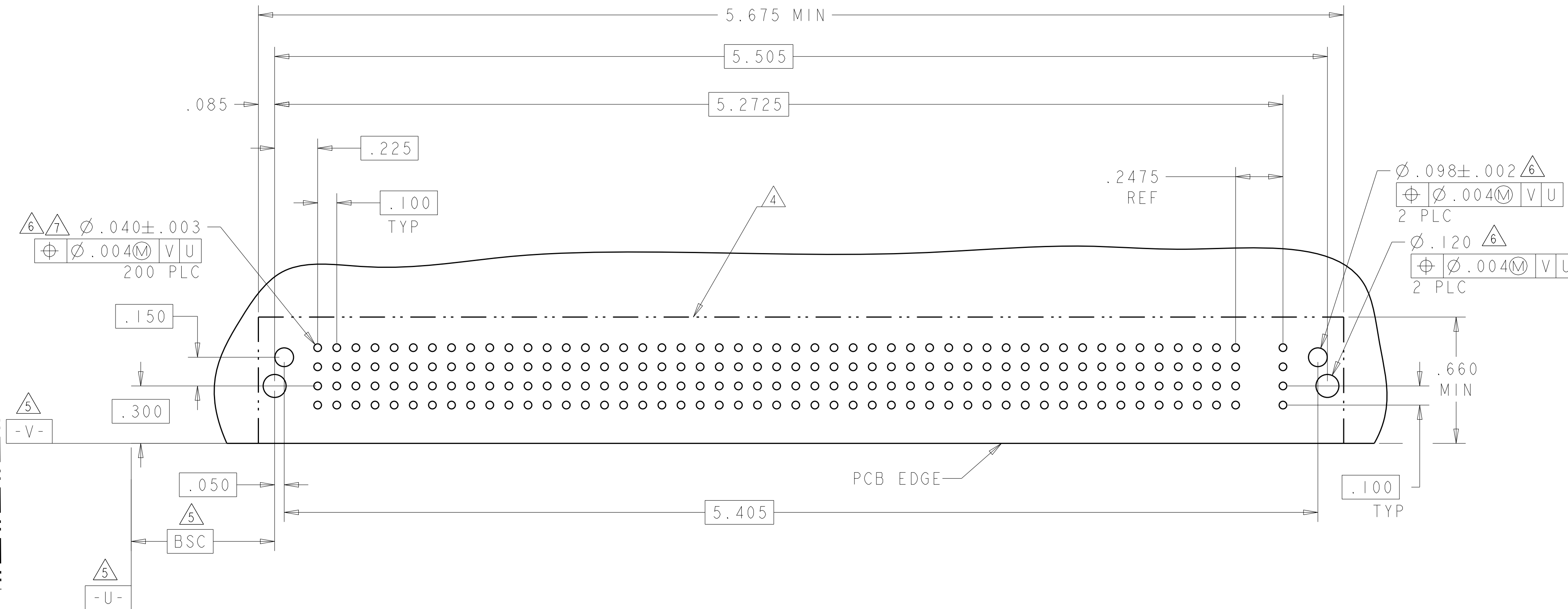
SCALE
4:1

SHEET
2

OF
17

REV
L7

TE Connectivity

[illegible]

This mechanical drawing illustrates the dimensions and tolerances for a PCB edge. Key features include:

- Overall Dimensions:** A total width of 1.070 MIN and a total height of .660 MIN.
- Internal Features:** A central array of 24 circular holes (6 columns by 4 rows) with a diameter of $\varnothing .040 \pm .003$ (M7). The spacing between columns is .900, and between rows is .100 TYP.
- Edge Features:** A .100 TYP dimension for the edge of the PCB.
- Mounting Holes:** Two mounting holes with a diameter of $\varnothing .120$ (M6) are located on the left side, with a .200 spacing from the edge.
- Other Dimensions:** Various other dimensions are specified, including .085, .150, .300, .050, .800, and .100 TYP.
- Labels:** Labels include "PCB EDGE", "24 PLC", "2 PLC", and "OPTIONAL".

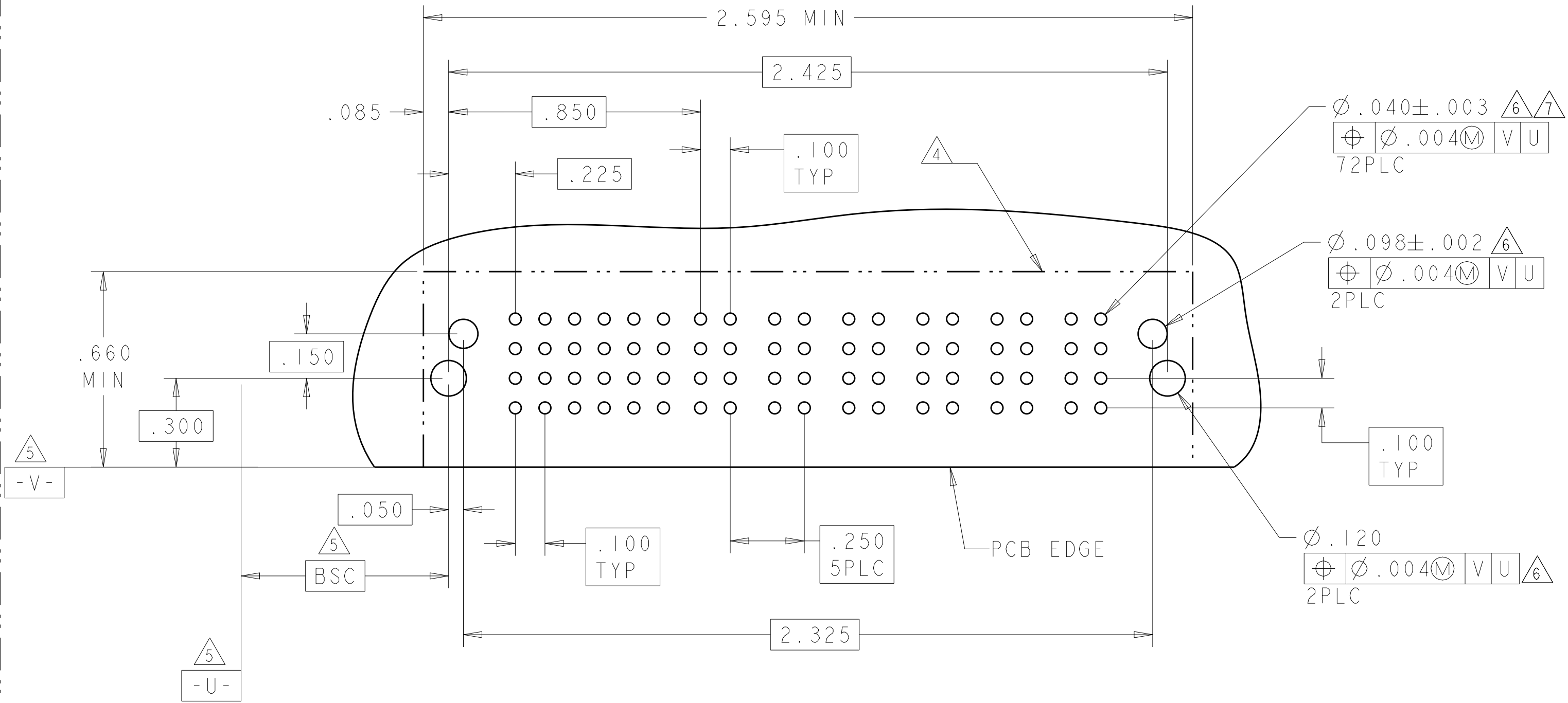
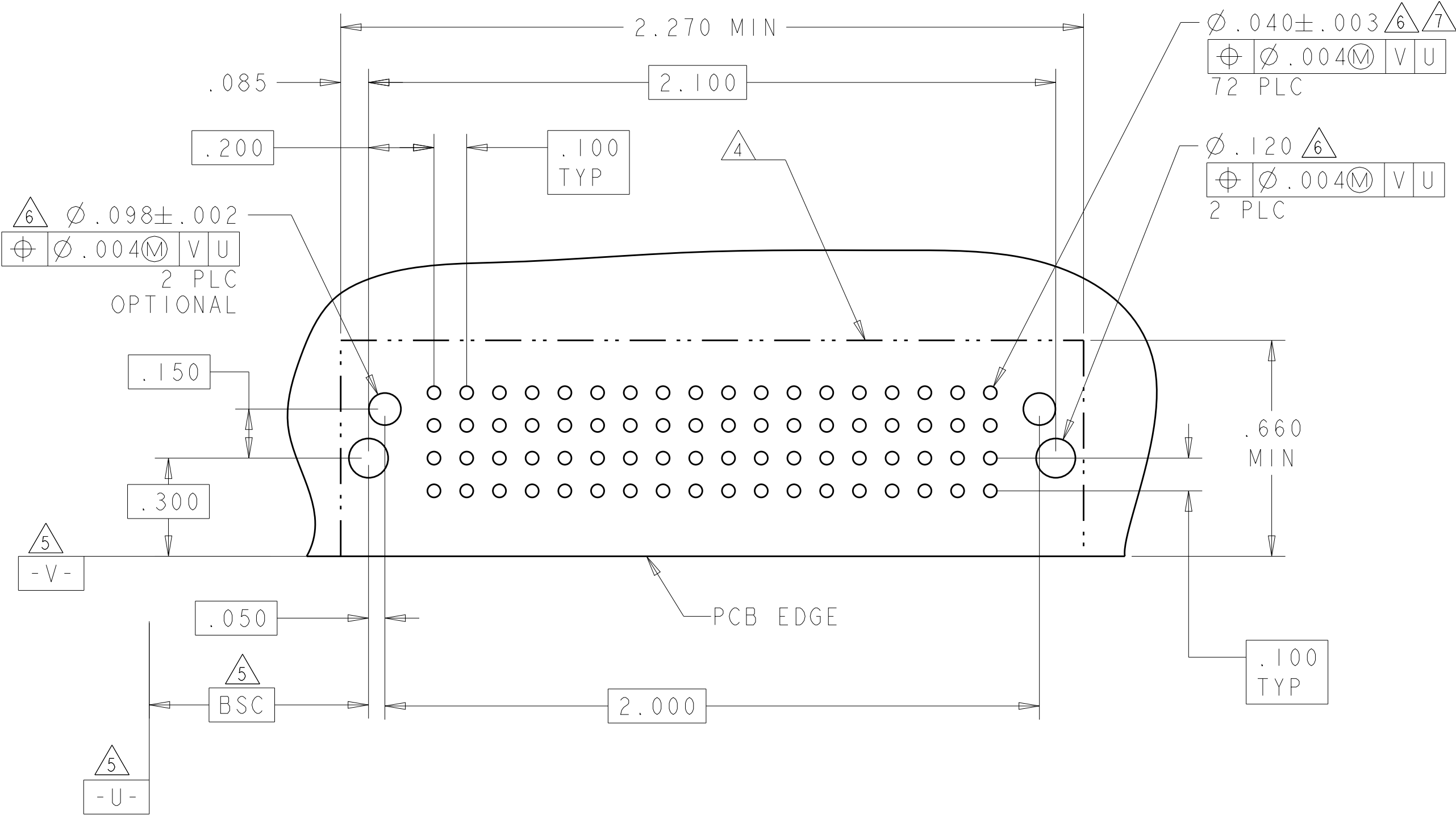
MFBL SIGNAL CONTACT, .135 TAIL LENGTH, ROW A	FS
MLBF SIGNAL CONTACT, .135 TAIL LENGTH, ROW D	E
MLBF SIGNAL CONTACT, .135 TAIL LENGTH, ROW C	F
MLBF SIGNAL CONTACT, .135 TAIL LENGTH, ROW B	G
MLBF SIGNAL CONTACT, .135 TAIL LENGTH, ROW A	H
STANDARD SIGNAL CONTACT, .135 TAIL LENGTH, ROW D	J
STANDARD SIGNAL CONTACT, .135 TAIL LENGTH, ROW C	K
STANDARD SIGNAL CONTACT, .135 TAIL LENGTH, ROW B	N
STANDARD SIGNAL CONTACT, .135 TAIL LENGTH, ROW A	S
3 BEAM STD POWER CONTACT, .135 TAIL LENGTH	TM
LOWER POWER CONTACT, .135 TAIL LENGTH,MFBL	LMF
LOWER POWER CONTACT, .135 TAIL LENGTH,STD	LM

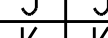
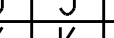
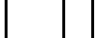
DESCRIPTION		IDENTIFIER	
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWG C. ZHOV 150C2007 CHK S. ZHAO 150C2007 APPVD S. YAO PRODUCT SPEC 108-2292 APPLICATION SPEC 108-13038	 TE Connectivity
DIMENSIONS: INCHES 	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±.1 1 PLC ±.01 2 PLC ±.005 4 PLC ±.0020 ANGLES 2°	NAME R/A HEADER WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE	SIZE A1
MATERIAL -	FINISH -	DRAWING NO 6450831	RESTRICTED TO -
Customer Drawing		SCALE 4:1	SHEET 3 OF 17
		REV L 2	

LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
ES	00	-	-	SEE SHEET 1	-	-	-

PART NUMBER	ROWS	SIGNAL																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
6450831-5	D	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
	C	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
	B	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
	A	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
72S																			

PART NUMBER	ROWS		SIGNAL						POWER						
			1	2	3	4	5	6	P1	P2	P3	P4	P5	P6	
6450831-6	D		J	J	J	J	J	J							
	K		K	K	K	K	K								
	N		N	N	G	N	N								
	S		S	S	H	S	S								
24S + 6P															



ASSY PART NUMBER	ROWS		SIGNAL						POWER						
			I	2	3	4	5	6	P1	P2	P3	P4	P5	P6	
6450831-9	D C B A		J	J	J	J	J	J							
			K	K	K	K	K	K							
			N	N	N	N	N	N							
			S	S	S	S	S	S							
24S + 6P															

3.095 MIN

.085

.850

.225

.100 TYP

$\varnothing .040 \pm .003$ $\triangle 6$ $\triangle 7$

$\oplus \varnothing .004$ $\textcircled{M}$ V U

88 PLC

$\varnothing .120 \pm .003$ $\triangle 6$

$\oplus \varnothing .004$ $\textcircled{M}$ V U

2 PLC

.100 TYP

.660 MIN

$\triangle 5$

-V-

.300

$\triangle 5$

BSC

$\triangle 5$

-U-

.100 TYP

.250 7 PLC

PCB EDGE

2.950

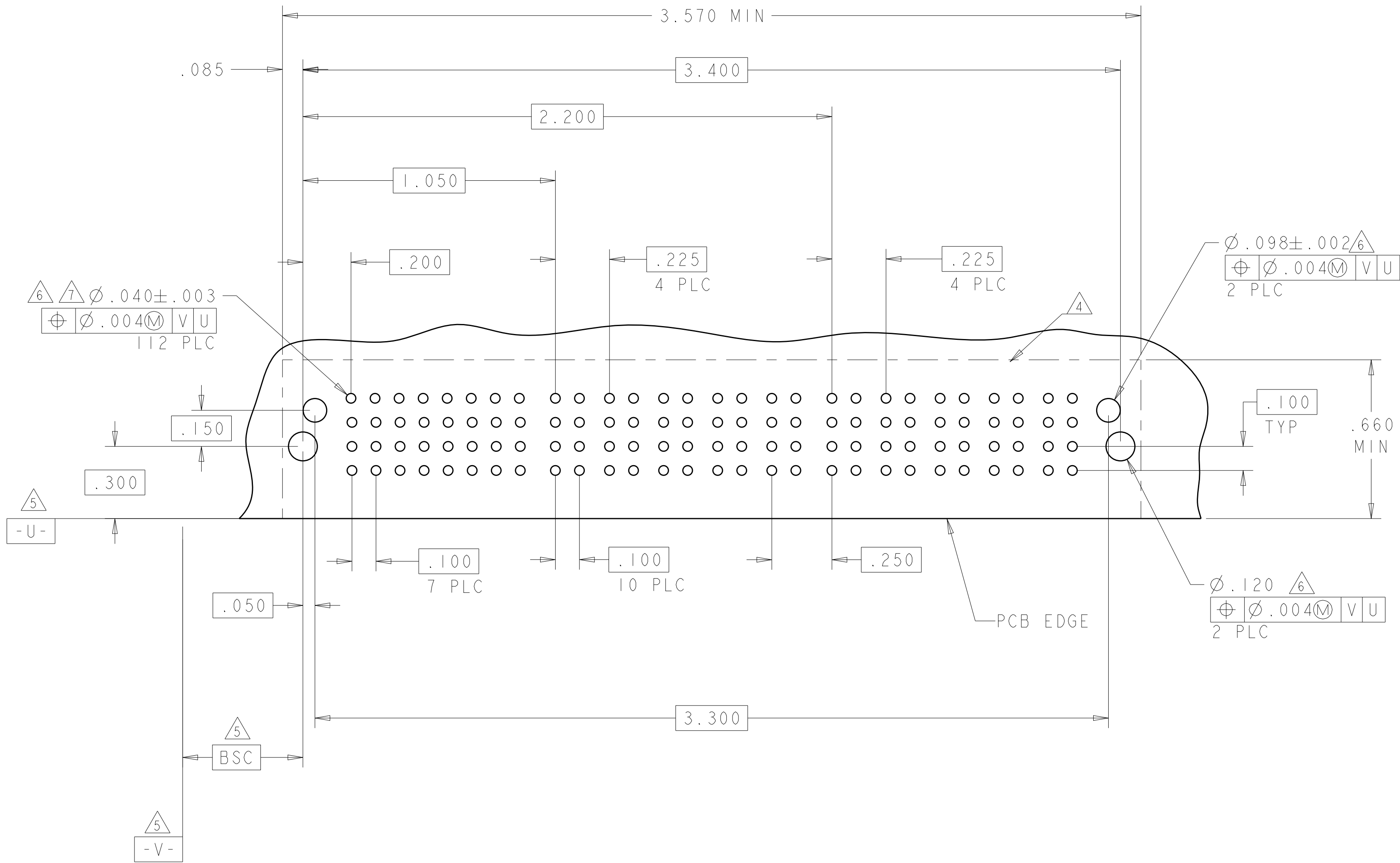
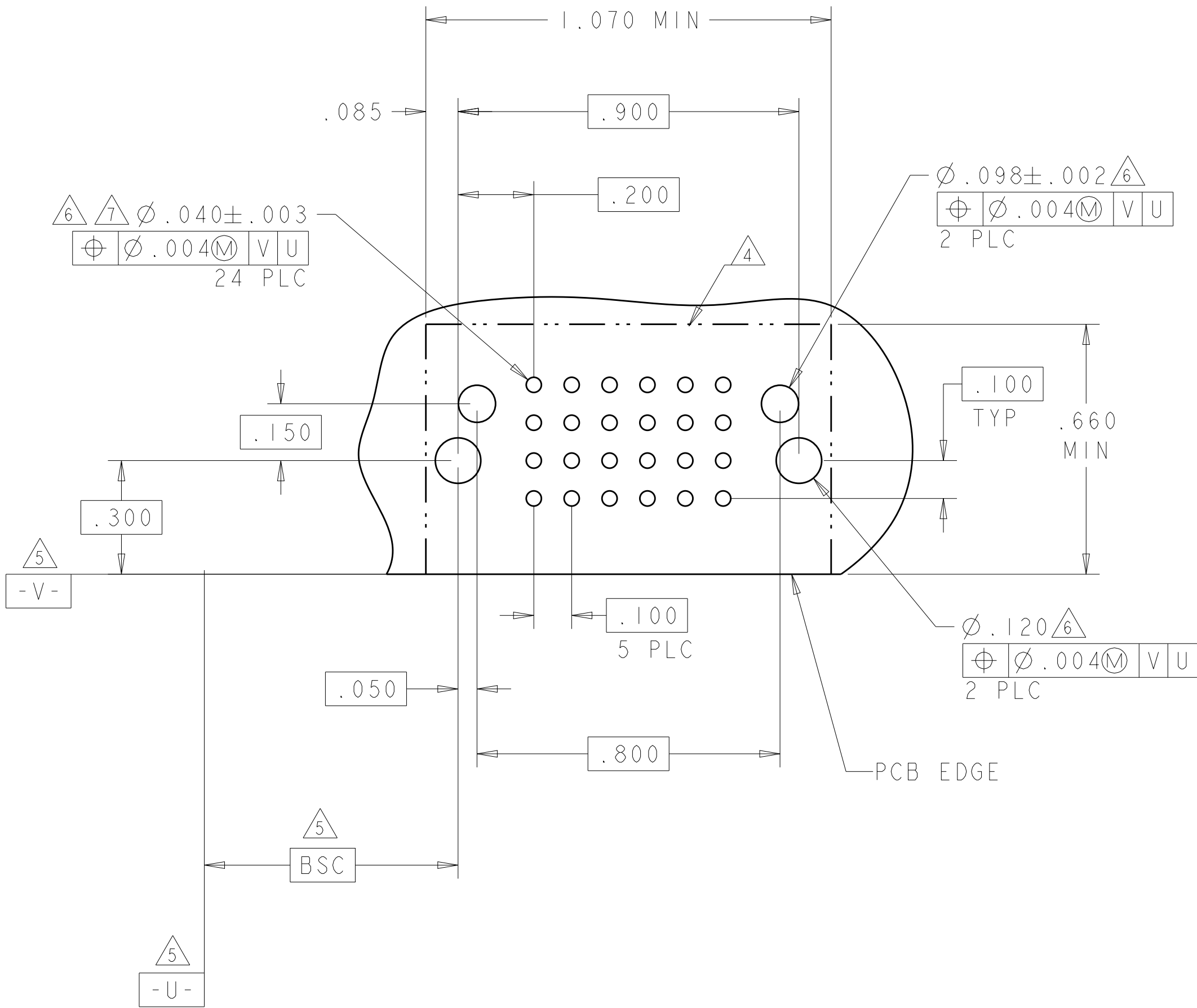
4805 (3/11)

LOC		DIST		REVISIONS				
P	LTR	DESCRIPTION			DATE	DWN	APVD	
-	-	SEE SHEET 1			-	-	-	

PART NUMBER	ROWS		SIGNAL						
			1	2	3	4	5	6	
1-6450831-1	D		E	E	E	E	E	E	
	C		F	F	F	F	F	F	
	B		G	G	G	G	G	G	
	A	HD	S	S	S	S	S	S	HD
24S									

PART NUMBER	ROWS		SIGNAL								POWER										
			1	2	3	4	5	6	7	8	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	
1-6450831-2	D		J	J	J	J	J	J	J	J	TM	TM	TM	TM	TM	TM	TM	TM	TM	TM	
	C		K	K	K	K	K	K	K	K											
	B		N	N	N	N	N	N	N	N											
	A	HD	H	H	H	H	H	H	H	H											H
32S + 10P																					

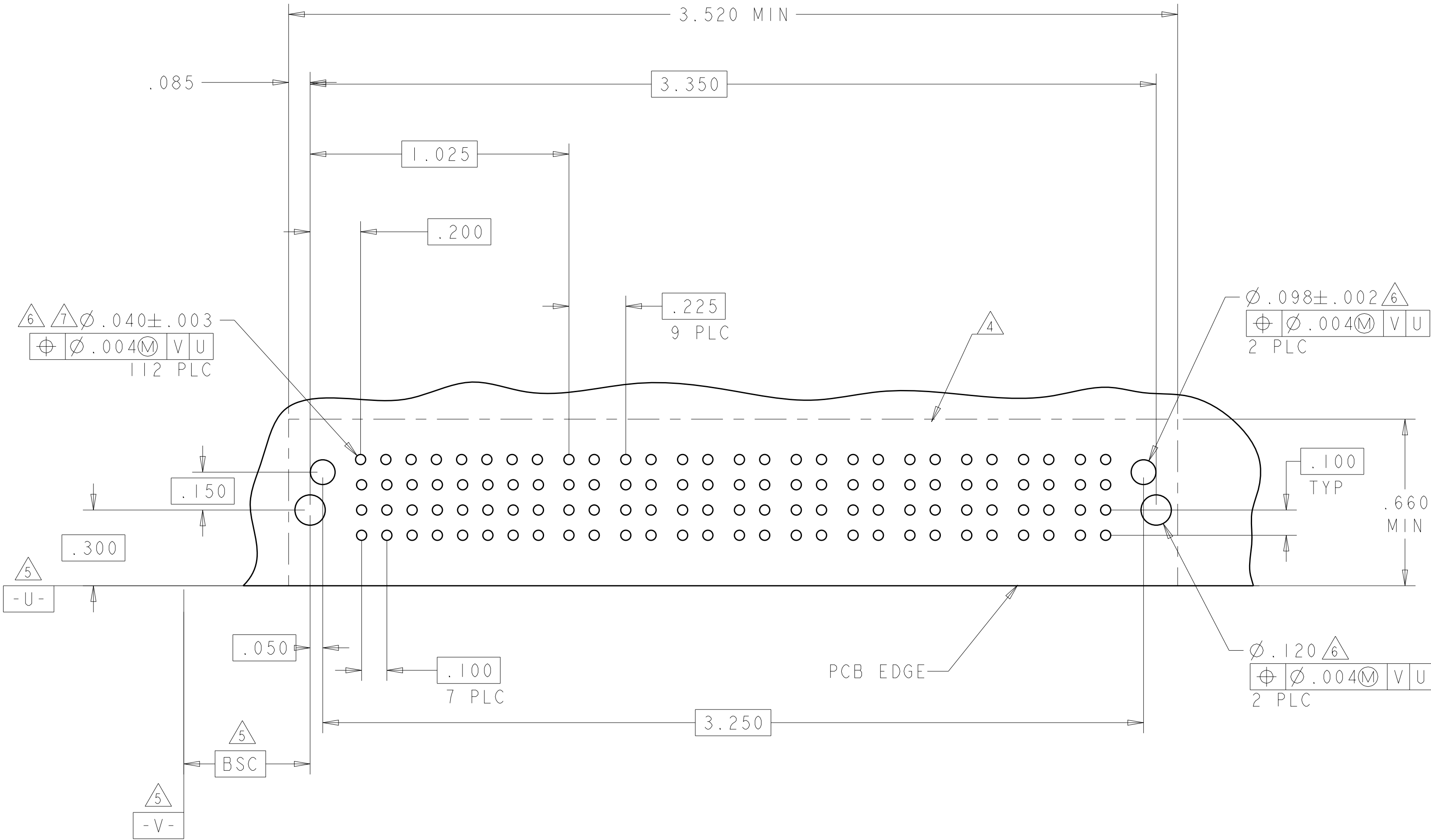
Δ .225
8 PLC



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C. ZHOU	15OCT2007	TE Connectivity	
		CHK S. ZHAO	15OCT2007		
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME R/A HEADER WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE	
		0 PLC ±.01		SIZE A1	
		1 PLC ±.01		CAGE CODE 00779	
		2 PLC ±.01		DRAWING NO C=6450831	
		3 PLC ±.005		RESTRICTED TO	
		4 PLC ±.0020			
		ANGLES ±.2°			
MATERIAL -		FINISH -		Customer Drawing	
				SCALE 4:1	
				SHEET 6	
				OF 17	
				REV L7	

LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-	-	SEE SHEET 1	-	-	-

PART NUMBER	ROWS		SIGNAL								POWER										
			1	2	3	4	5	6	7	8	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	
1-6450831-3	D		J	J	J	J	J	J	J	J	TM	TM	TM	TM	TM	TM	TM	TM	TM		
	C		K	K	K	K	K	K	K	K											
	B		N	N	N	N	N	N	N	N											N
	A	HD	H	H	H	H	H	H	H	H											HD
32S + 10P																					

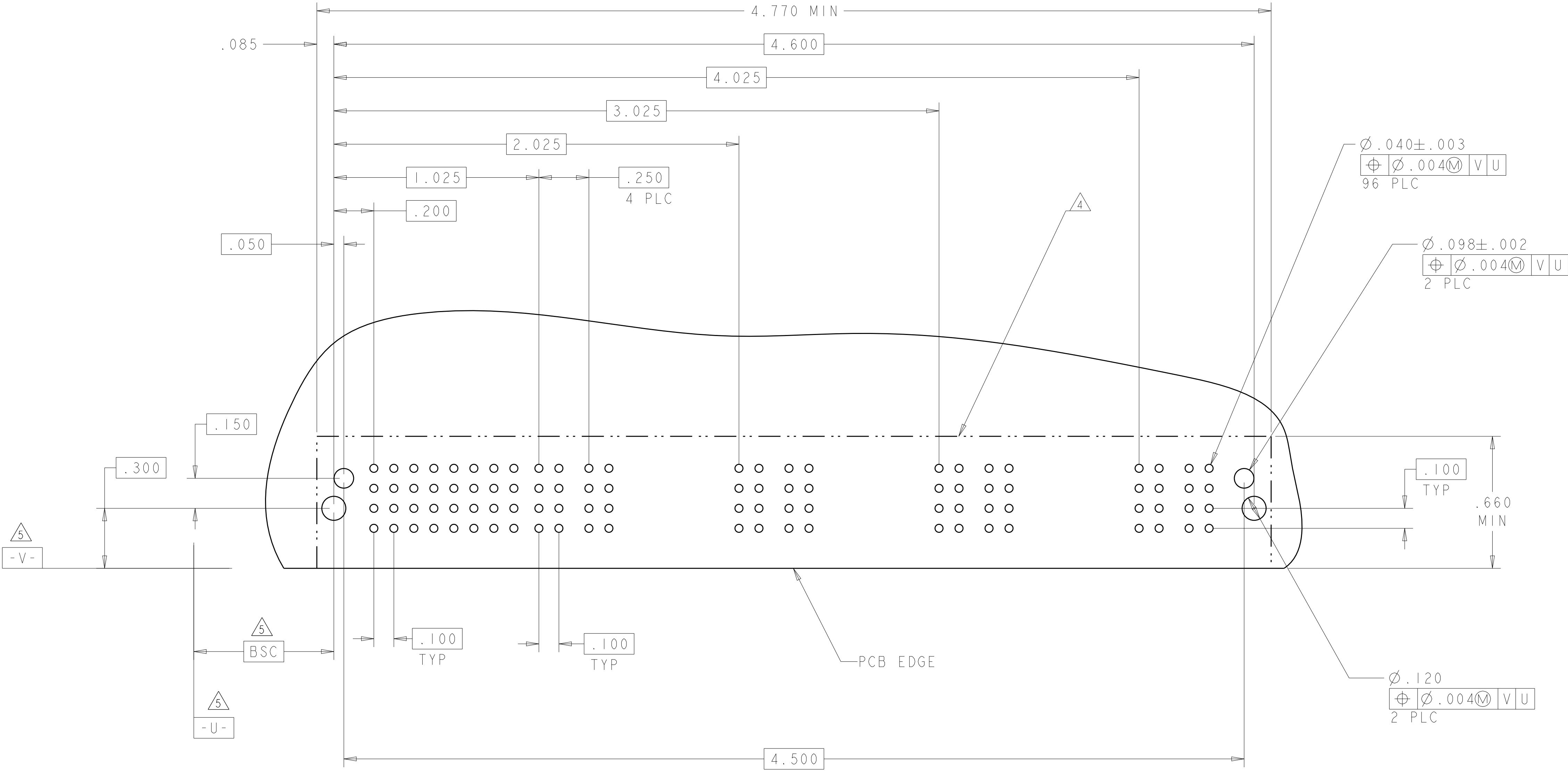


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	C.ZHOU	15OCT2007		TE Connectivity
		CHK	S.ZHAO	15OCT2007		
		APVD	S.YAO	-		
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME		
INCHES				R/A HEADER WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE		
		PRODUCT SPEC		SIZE		
		108-2292				
		APPLICATION SPEC				
		108-13038				
MATERIAL		WEIGHT		CASE CODE		
				DRAWING NO		
				RESTRICTED TO		
				A100779C=6450831		
				-		
		Customer Drawing		SCALE		
				4:1		
				SHEET		
				7 OF 17		
				REV		

LOC	DIST	REVISIONS				
		P	LTR	DESCRIPTION	DATE	DWN
ES	00	-	-	SEE SHEET 1	-	-

ASSY PART NUMBER	ROWS		SIGNAL								POWER														
			1	2	3	4	5	6	7	8	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	
1-6450831-4	D C B A		J	J	J																				
			K	F	F																				
			N	N	N																				
			S	S	S																				
32S + 14P																									

H3



THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
INCHES

MATERIAL

-

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC
1 PLC
2 PLC
3 PLC
4 PLC
ANGLES
FINISH

±"
±.01
±.005
±.0020
#2°
-

DWN
CHK
APVD

C. ZHOU
S. ZHAO
S. YAO

15OCT2007
15OCT2007
-

NAME

R/A HEADER WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE

PRODUCT SPEC
APPLICATION SPEC

108-2292
108-13038

SIZE
CAGE CODE
DRAWING NO

A1
00779
C=6450831

RESTRICTED TO

-

Customer Drawing

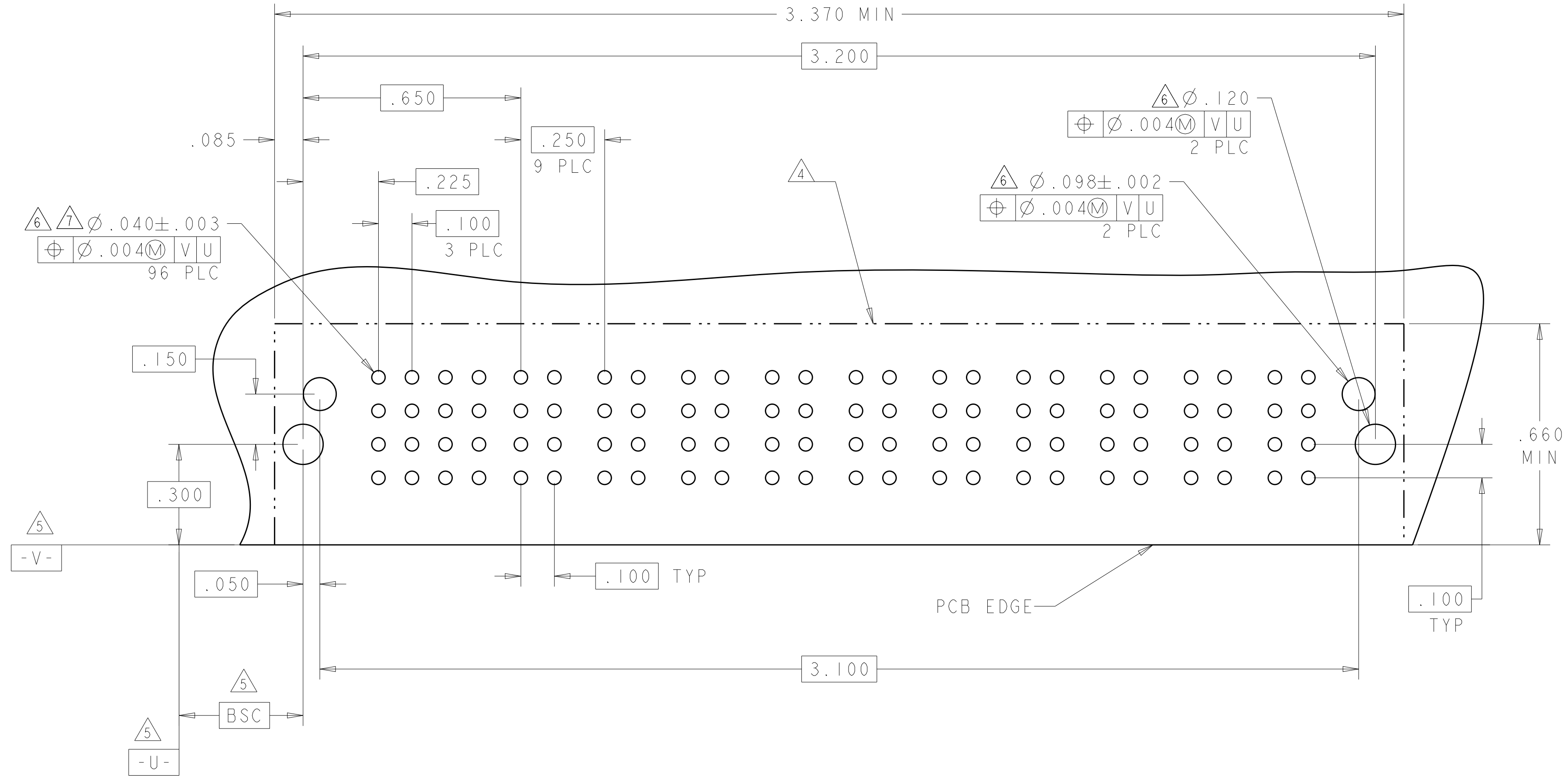
SCALE 4:1

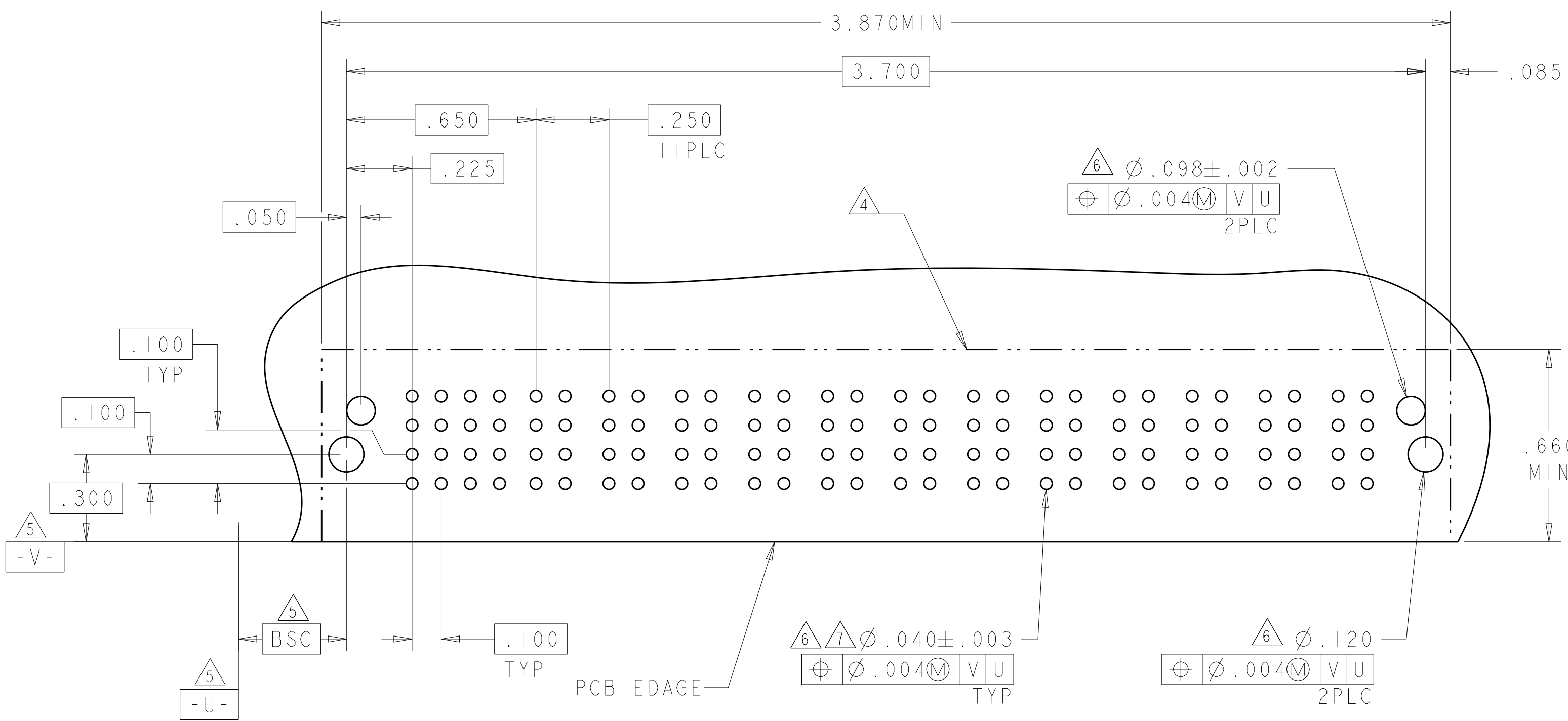
SHEET 8 OF 17

REV L 7

PART NUMBER	ROWS		SIGNAL				POWER											
			I	2	3	4	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10		
I-6450831-6	D		E	E	J	J	TM	TM	TM	TM	TM	TM	TM	TM	TM	TM		
	C		K	K	K	K												
	B		N	N	N	N												
	A	HD	S	S	S	S												HD
16S + 10P																		

H7

4805 (3/11)

[illegible]

RECOMMENDED PCB LAYOUT

4805 (3/11)

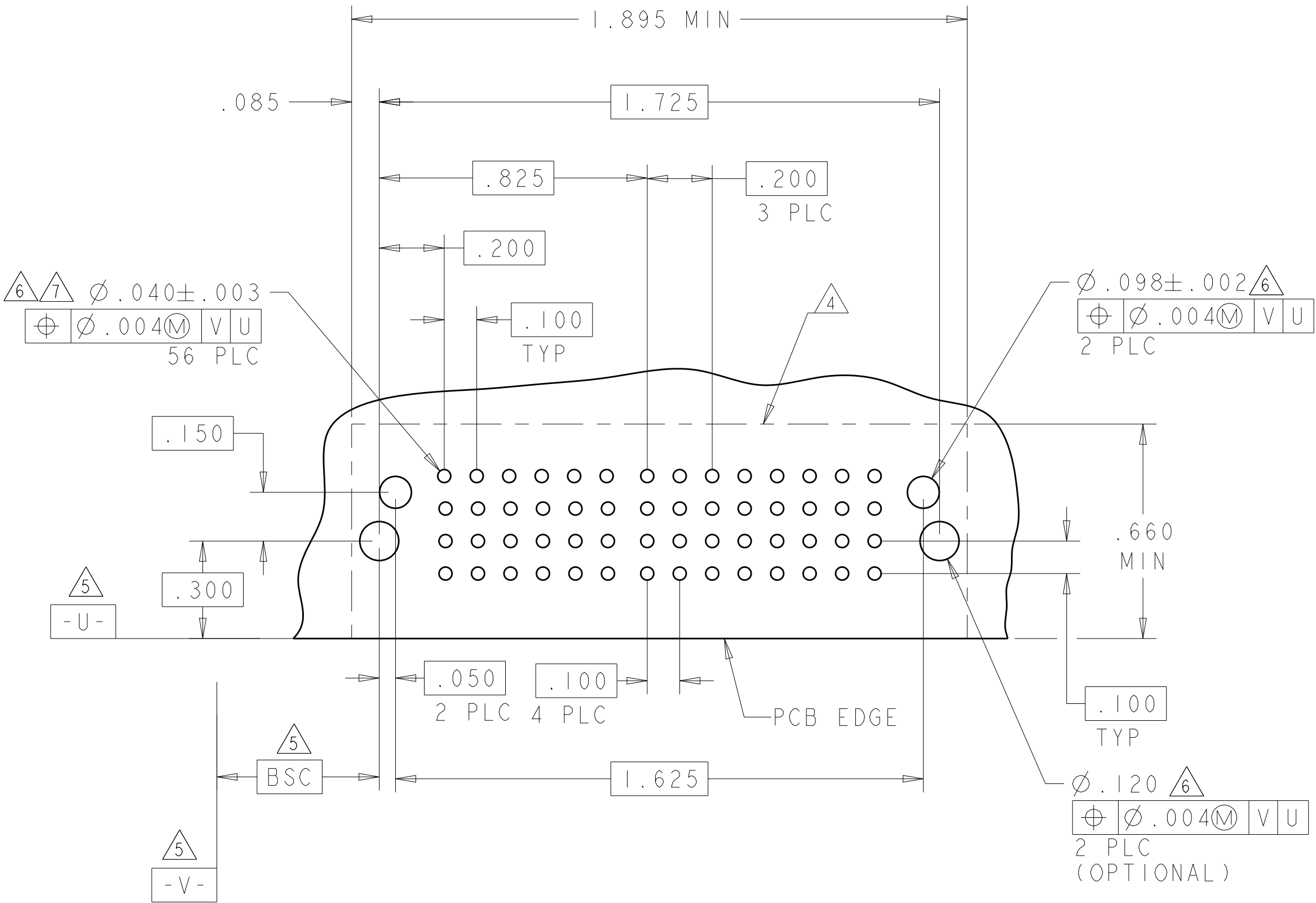
LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
			-	SEE SHEET 1	-	-	-

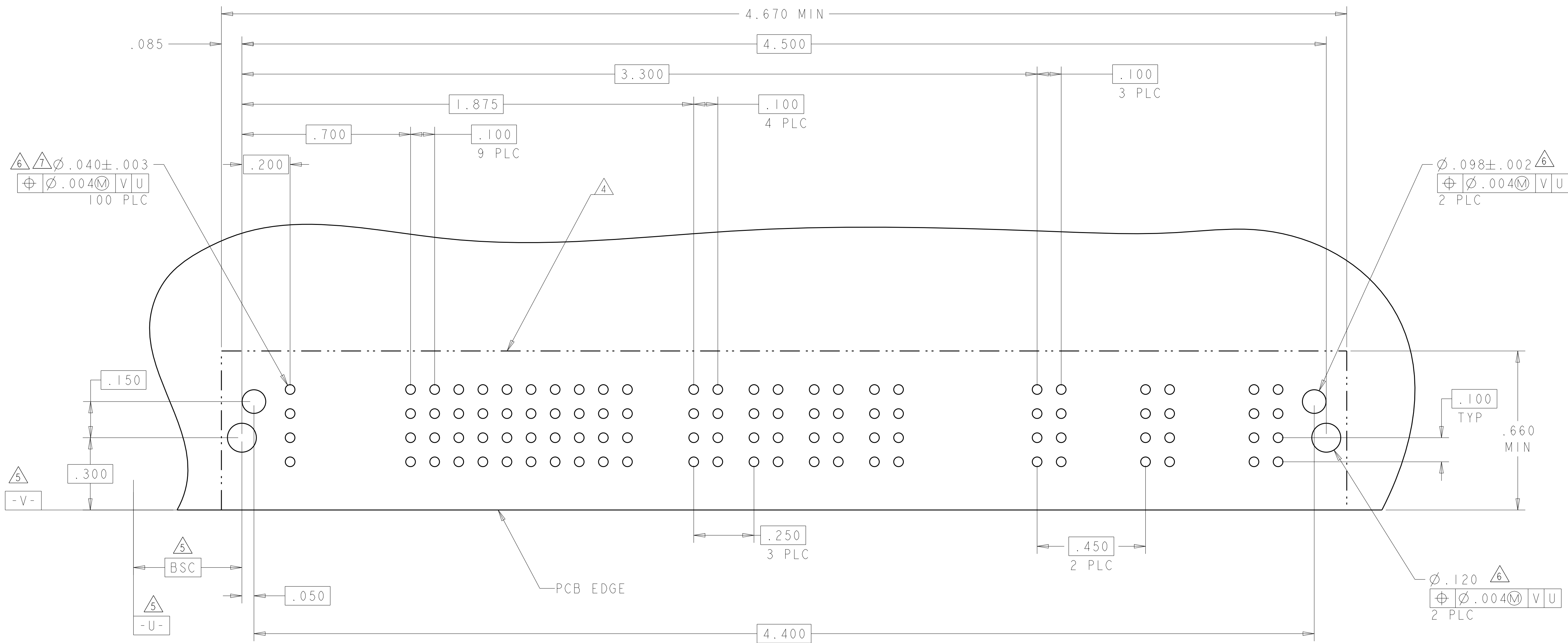
PART NUMBER	ROWS		SIGNAL						POWER				
			1	2	3	4	5	6	P1	P2	P3	P4	
1-6450831-9	D		J	J	J	J	J	J	TM	TM	TM	TM	
	C		K	K	K	K	K	K					
	B		N	N	N	N	N	N					
	A	HD	S	S	S	S	S	S					HD
24S + 4P													

PART NUMBER	ROWS		SIGNAL						
			1	2	3	4	5	6	
2-6450831-0	D		J	J	J	J	J	J	
	C		K	K	K	K	K	K	
	B		N	N	N	N	N	N	
	A	HD	S	S	S	S	S	S	HD
24S									

PART NUMBER	ROWS		SIGNAL						
			1	2	3	4	5	6	
2-6450831-1	D		J	J	J	E	E	E	
	C		K	K	K	K	F	F	
	B		N	N	N	N	G	G	
	A	HD	S	S	S	S	H	H	
24S									

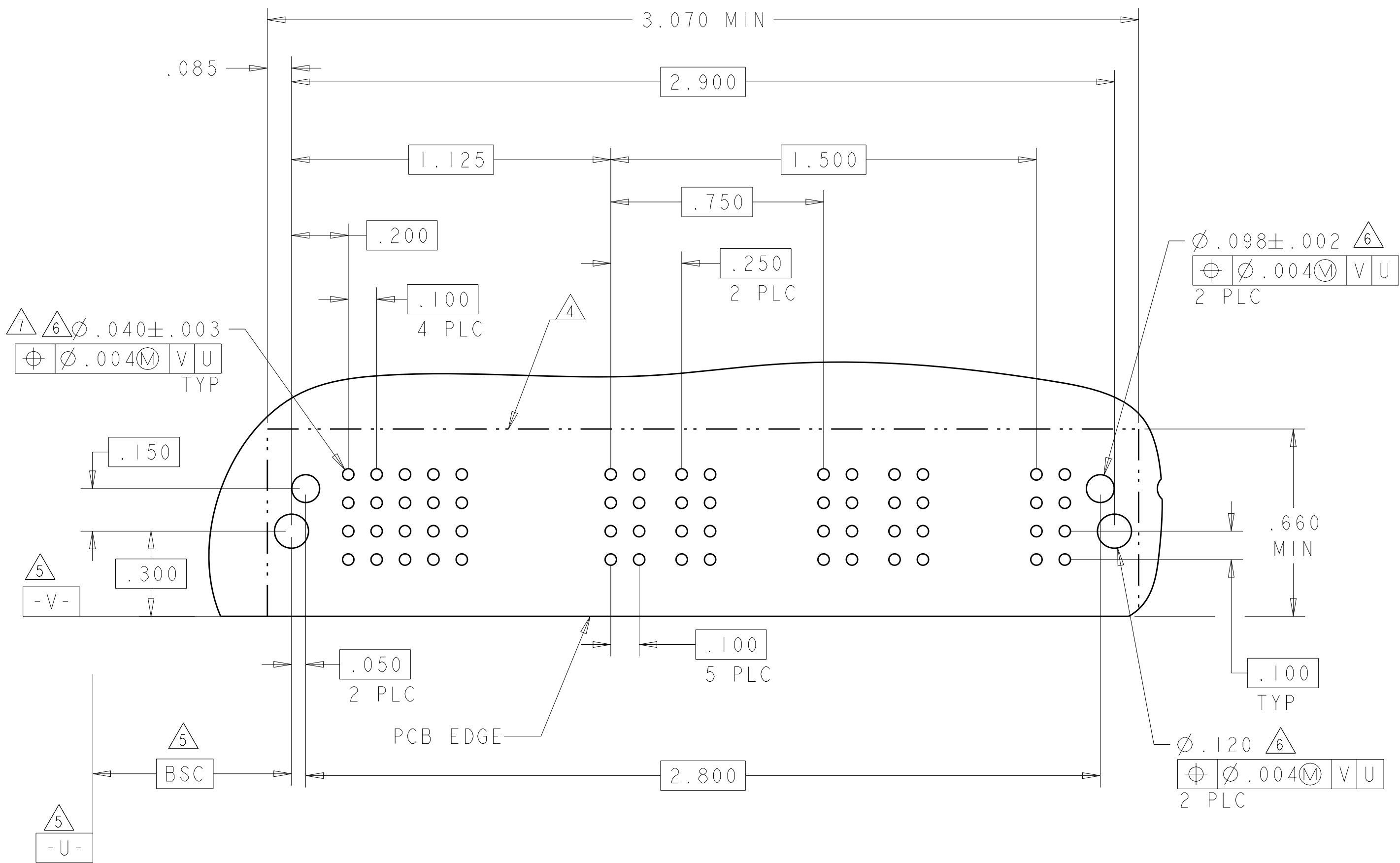
J4



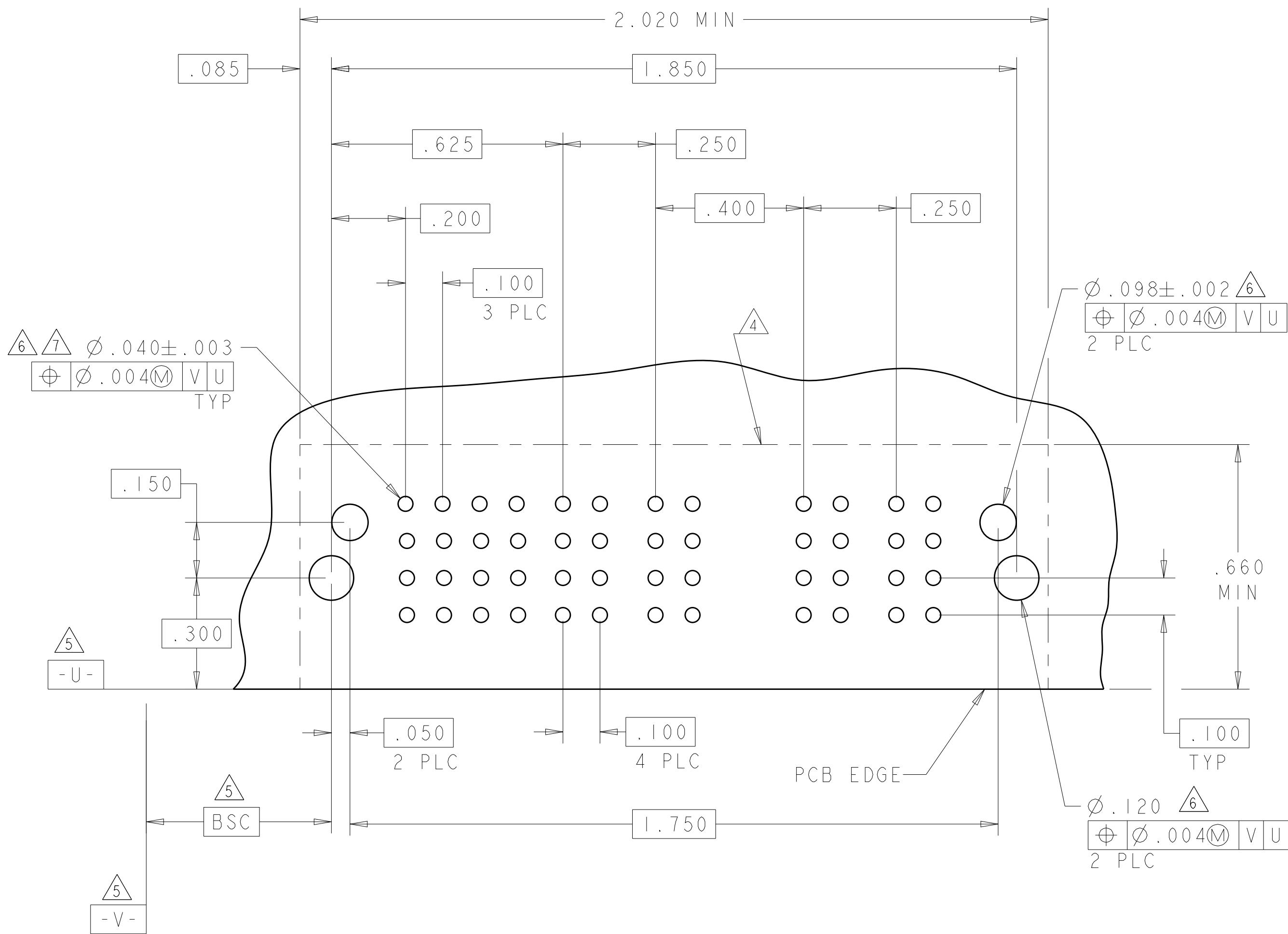
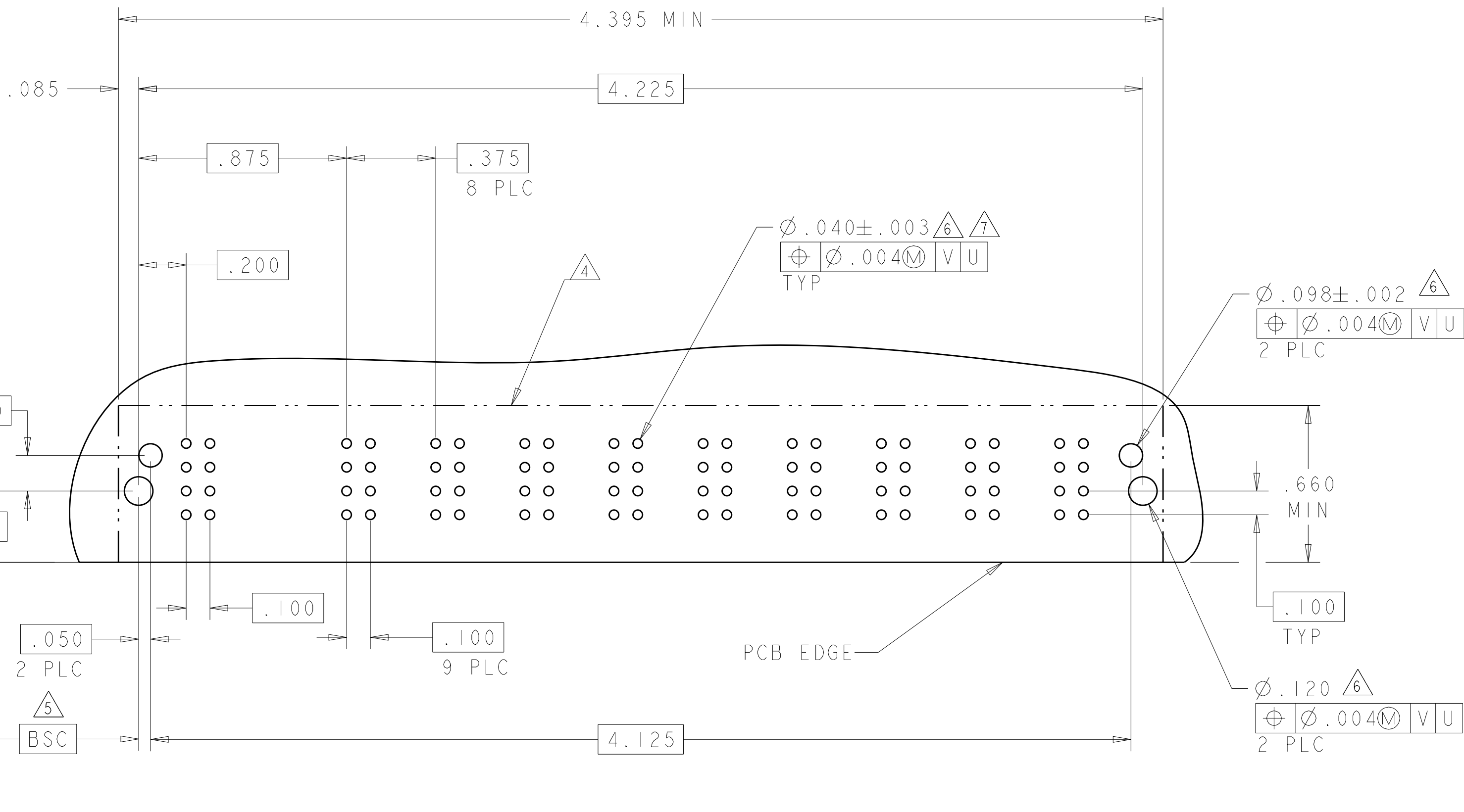
4805 (3/11)

PART NUMBER	ROWS		SIGNAL						POWER								
			I	2	3	4	5	6	P1	P2	P3	P4	P5	P6	P7	P8	
2-6450831-4	D		J	J	J	J	J										
	C		K	K	K	K	K			TM	TM						
	B		N	N	N	N	N					TM	TM			TM	
	A		HD	S	S	S	S	S									
24S + 8P																	

NO CONTACTS LOADED.

4805 (3/11)

PART NUMBER	ROWS		SIGNAL				POWER					
			I	2	3	4	P1	P2		P3		P4
2-6450831-6	D		J	E	J	J	TM	TM		TM	TM	
	C		K	K	K	K						
	B		N	N	N	N						
	A		HD	S	S	S						
16S + 4P												

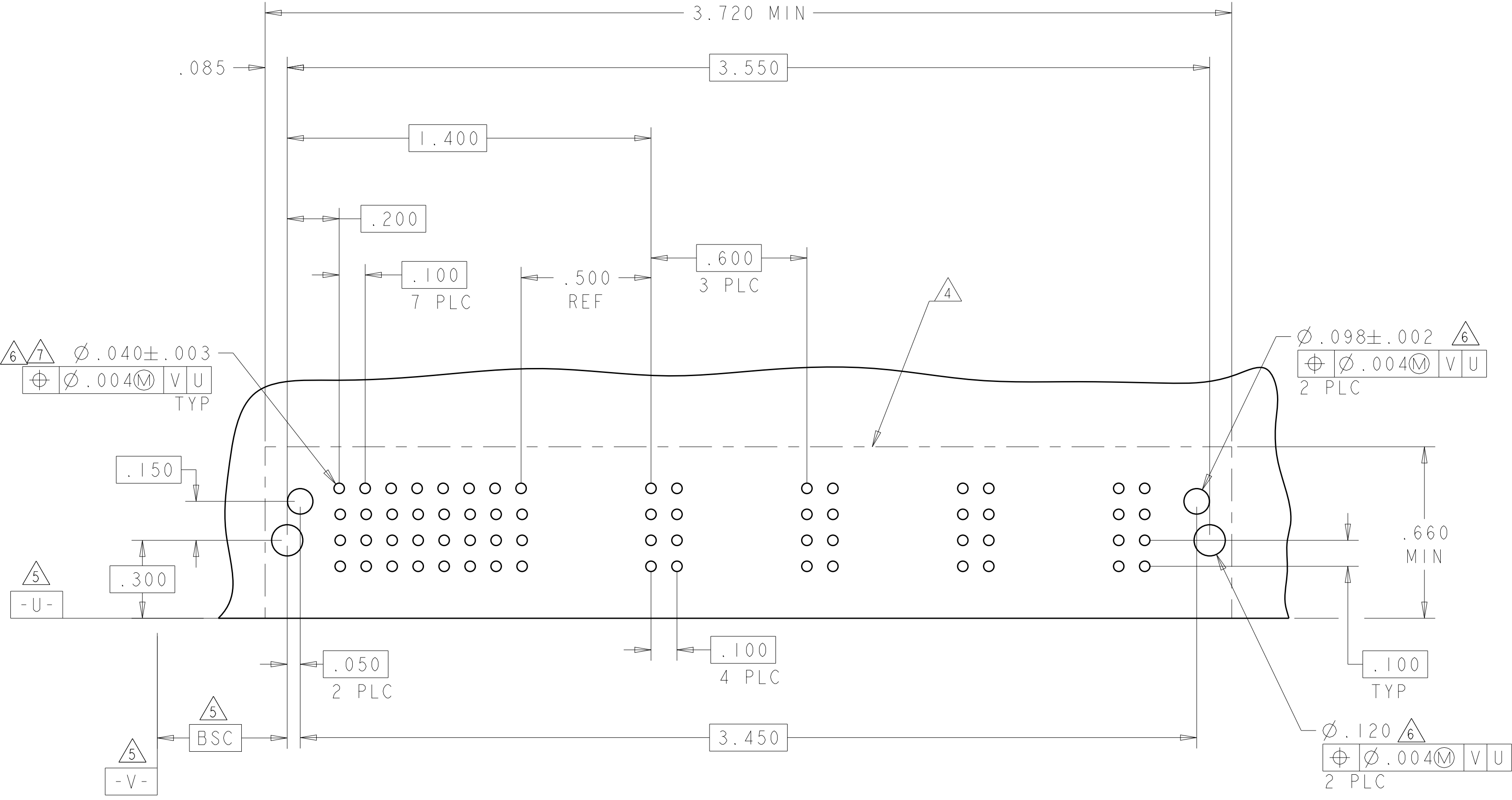
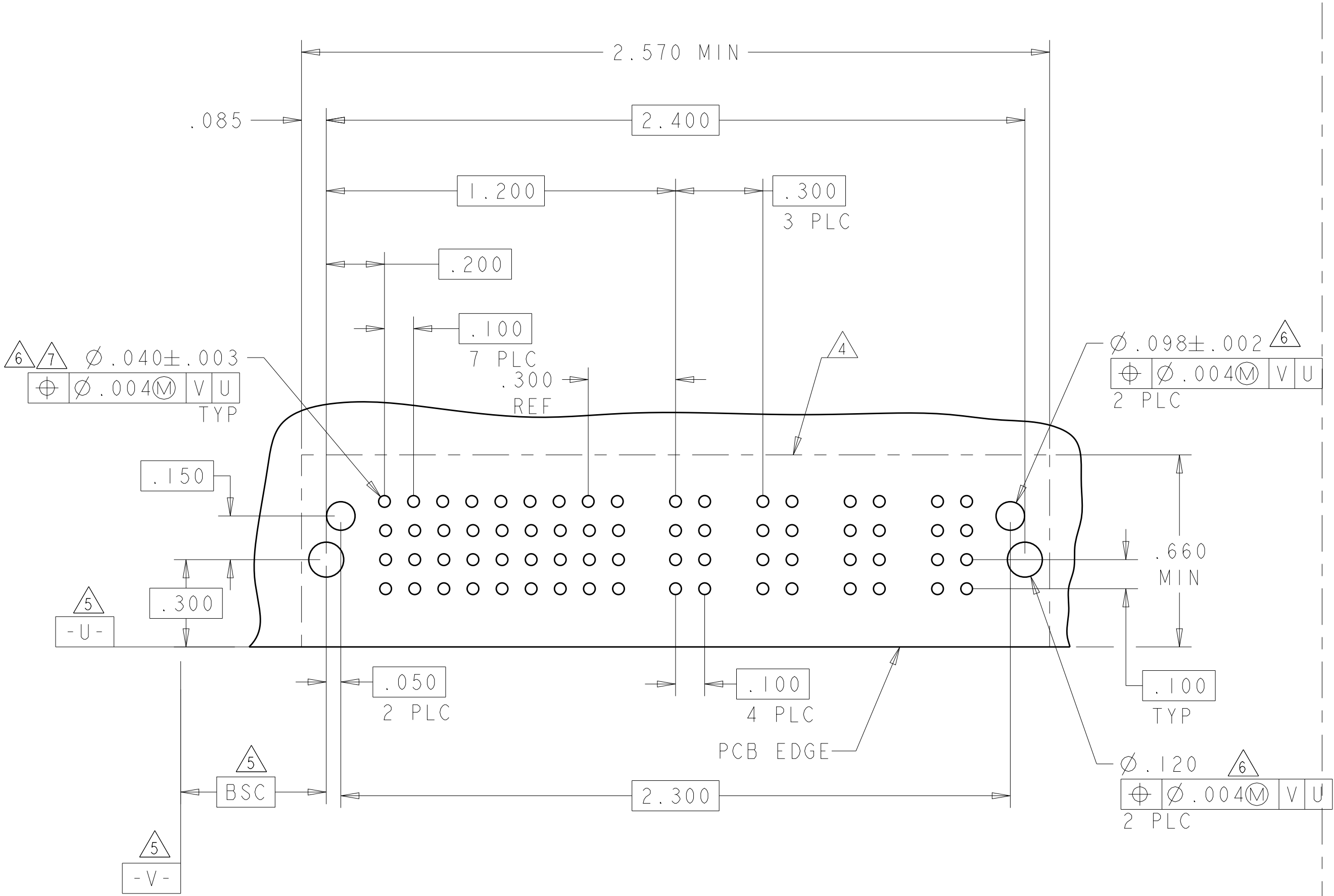


LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-	-	SEE SHEET 1	-	-	-

PART NUMBER	ROWS		SIGNAL								POWER				
			1	2	3	4	5	6	7	8	P1	P2	P3	P4	
2-6450831-7	D		J	J	J	J	J	J	J	J	TM	TM	TM	TM	
	C		K	K	K	K	K	K	K	K					
	B		N	N	N	N	N	N	N	N					
32S + 4ACP	A	HD	S	S	S	S	S	S	S	S					HD

PART NUMBER	ROWS		SIGNAL								POWER								
			1	2	3	4	5	6	7	8	P1	P2	P3	P4	P5	P6	P7	P8	
2-6450831-8	D		E	J	J	J	J	J	J	J	TM	TM	TM	TM	TM	TM	TM	TM	
	C		K	K	K	K	K	K	K	K									
	B		N	N	N	N	N	N	N	N									
	A	HD	S	S	S	S	S	S	S	FS									HD
32S +8ACP																			

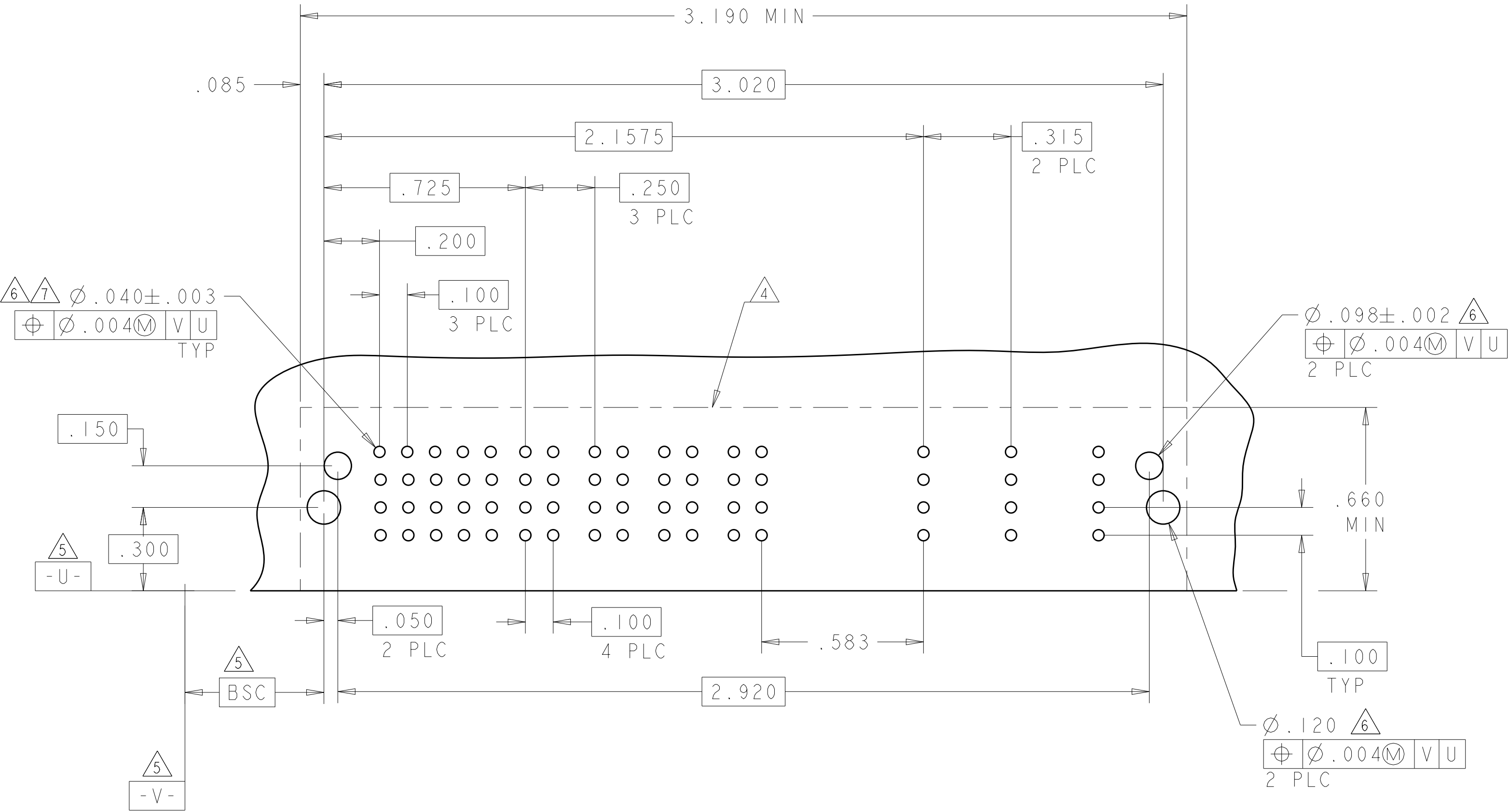
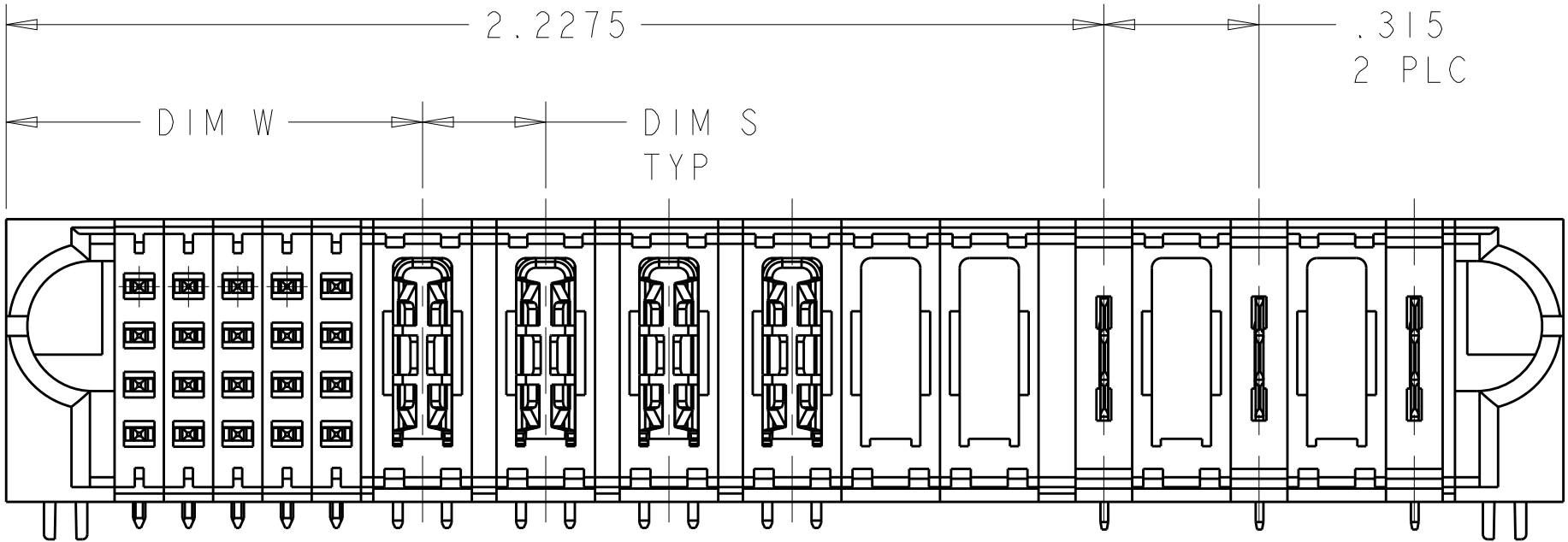
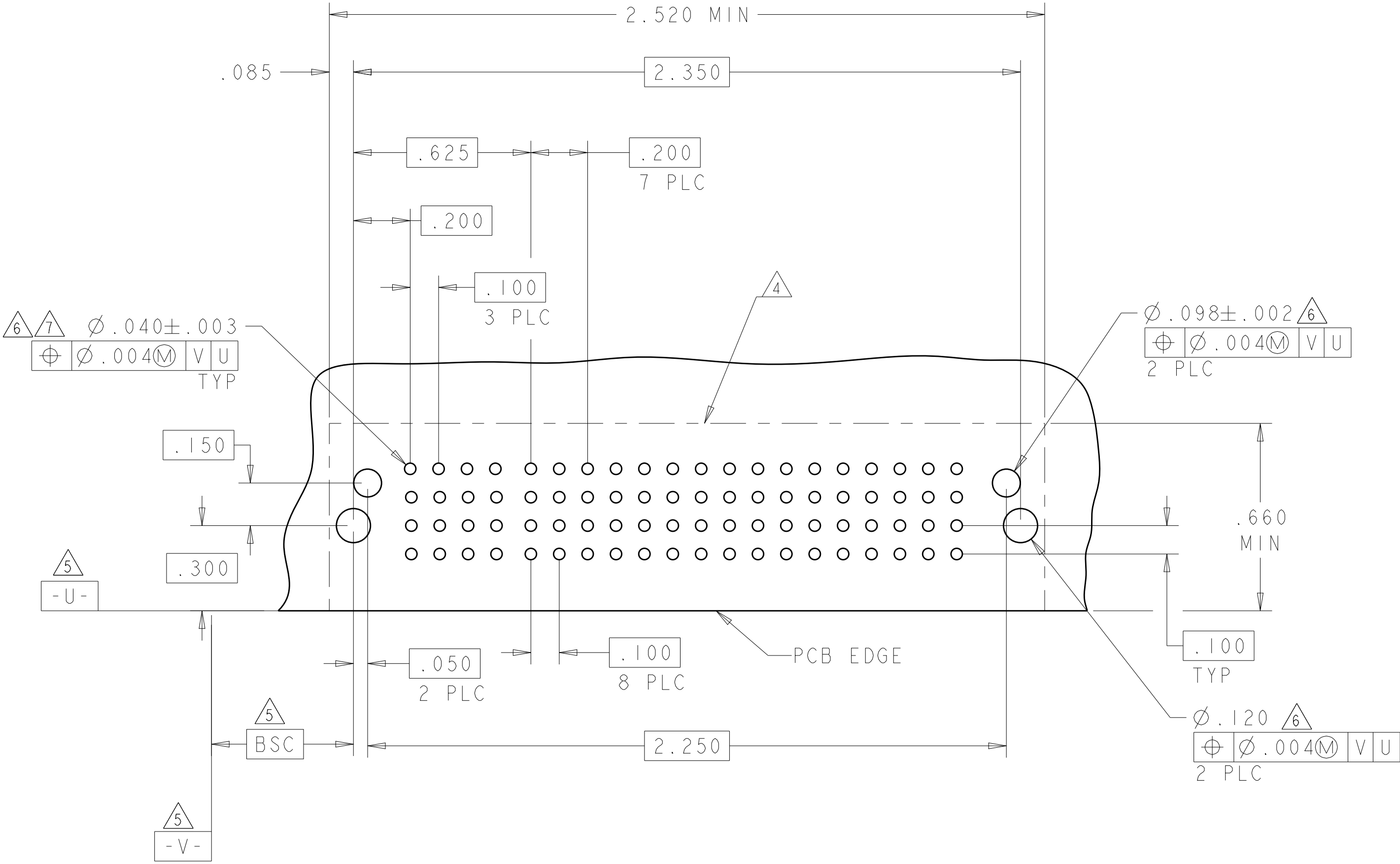
NO CONTACTS LOADED



LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-	-	SEE SHEET 1	-	-	-

PART NUMBER	ROWS		SIGNAL				POWER								
			I	2	3	4	P1	P2	P3	P4	P5	P6	P7	P8	
2-6450831-9	D		J	J	J	J									
	C		K	K	K	K	TM	TM	TM	TM	TM	TM	TM	TM	
	B		N	G	N	N									
16S + 8HDP	A	HD	S	S	S	S									HD

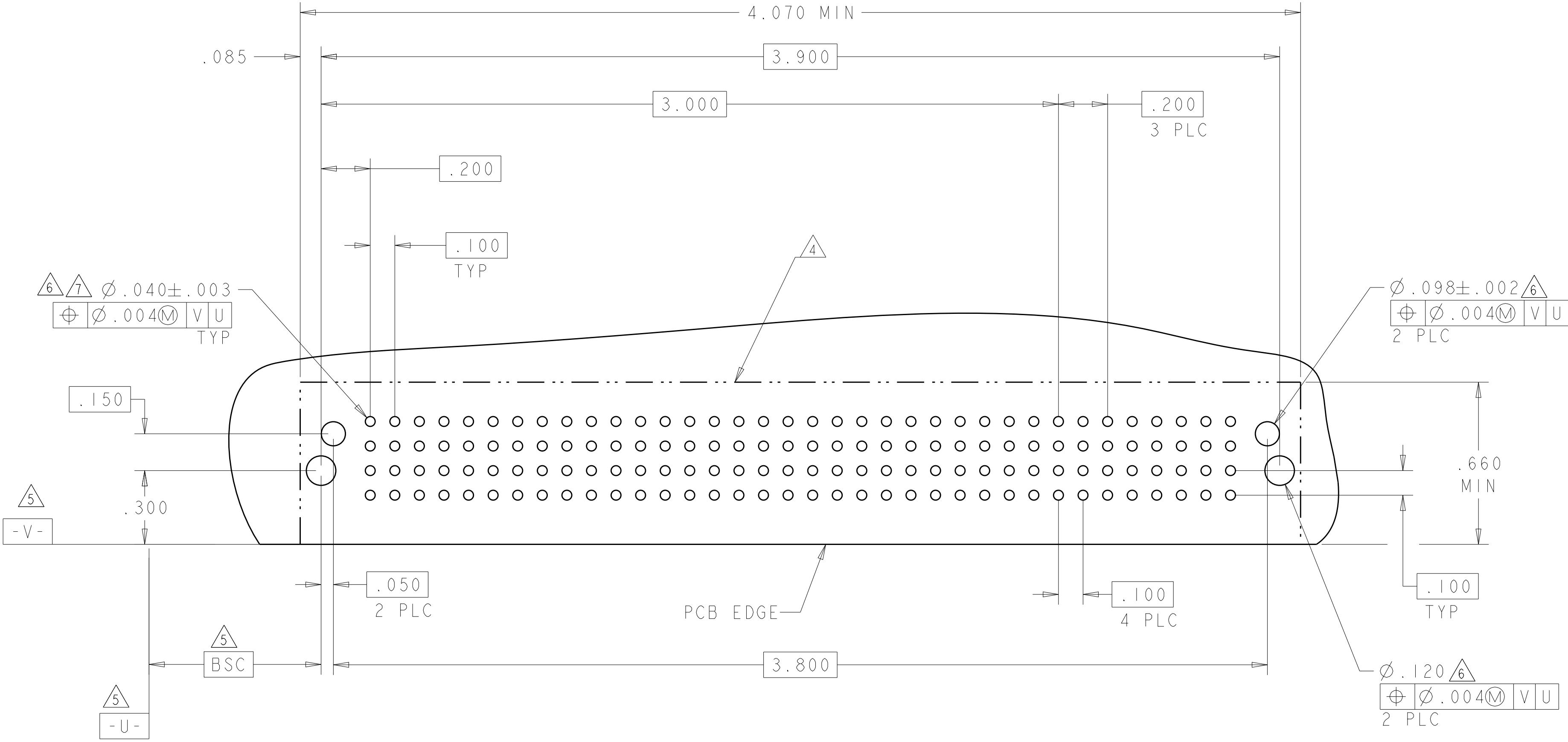
PART NUMBER	ROWS		SIGNAL					POWER				LOW POWER			
			I	2	3	4	5	P1	P2	P3	P4	LP1	LP2	LP3	
3-6450831-0	D		J	J	J	J	J								
	C		K	K	K	K	K	TM	TM	TM	TM	LM	LM	LMF	
	B		N	N	N	N	N								
	A	HD	H	H	H	S	S								HD
20S + 4P + 3LP															



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C. ZHOU	15OCT2007	TE Connectivity	
DIMENSIONS: INCHES		CHK S. ZHAO	15OCT2007		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD S. YAO	-	NAME R/A HEADER WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE	
0 PLC 1 PLC 2 PLC 3 PLC 4 PLC ANGLES FINISH		± ±.01 ±.005 ±.0020 #2	PRODUCT SPEC 108-2292 APPLICATION SPEC 108-13038 WEIGHT -	SIZE A1	
MATERIAL -		-	-	CAGE CODE 6450831	
Customer Drawing		SCALE 4:1	SHEET 16	OF 17	REV L7

LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
ES	00	-	-	SEE SHEET 1	-	-	-

PART NUMBER	ROWS		SIGNAL																												POWER				
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	P1	P2	P3	P4	
3-6450831-4	D C B A		J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J		
			K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	
			N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
			S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
112S + 4HDP																																			



THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN

C. ZHOU

15OCT2007

CHK

S. ZHAO

15OCT2007

APVD

S. YAO

-

DIMENSIONS:

INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±.01

1 PLC ±.01

2 PLC ±.01

3 PLC ±.005

4 PLC ±.0020

ANGLES ±2°

FINISH

PRODUCT SPEC

108-2292

APPLICATION SPEC

108-13038

WEIGHT

-

Customer Drawing

NAME

R/A HEADER WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE

SIZE

A1

CAGE CODE

00779

DRAWING NO

6450831

RESTRICTED TO

-

SCALE

4:1

SHEET

17

OF

17

REV

L7

TE Connectivity