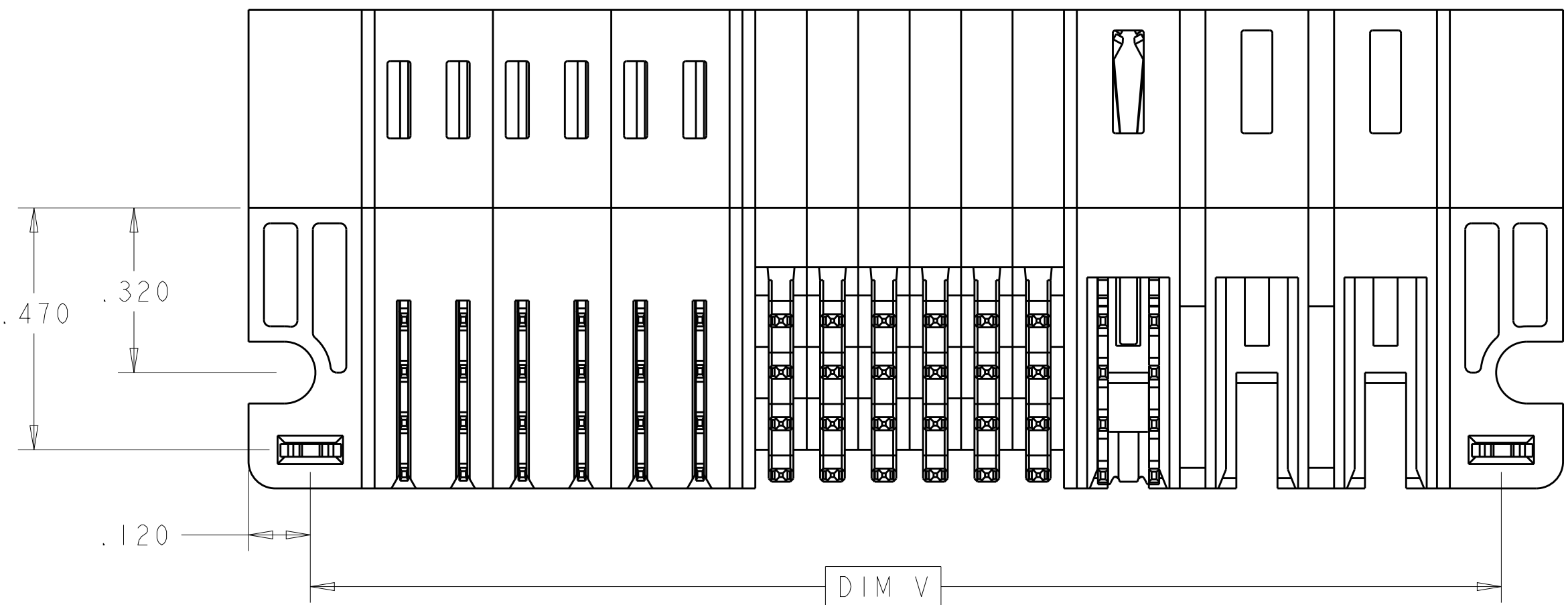
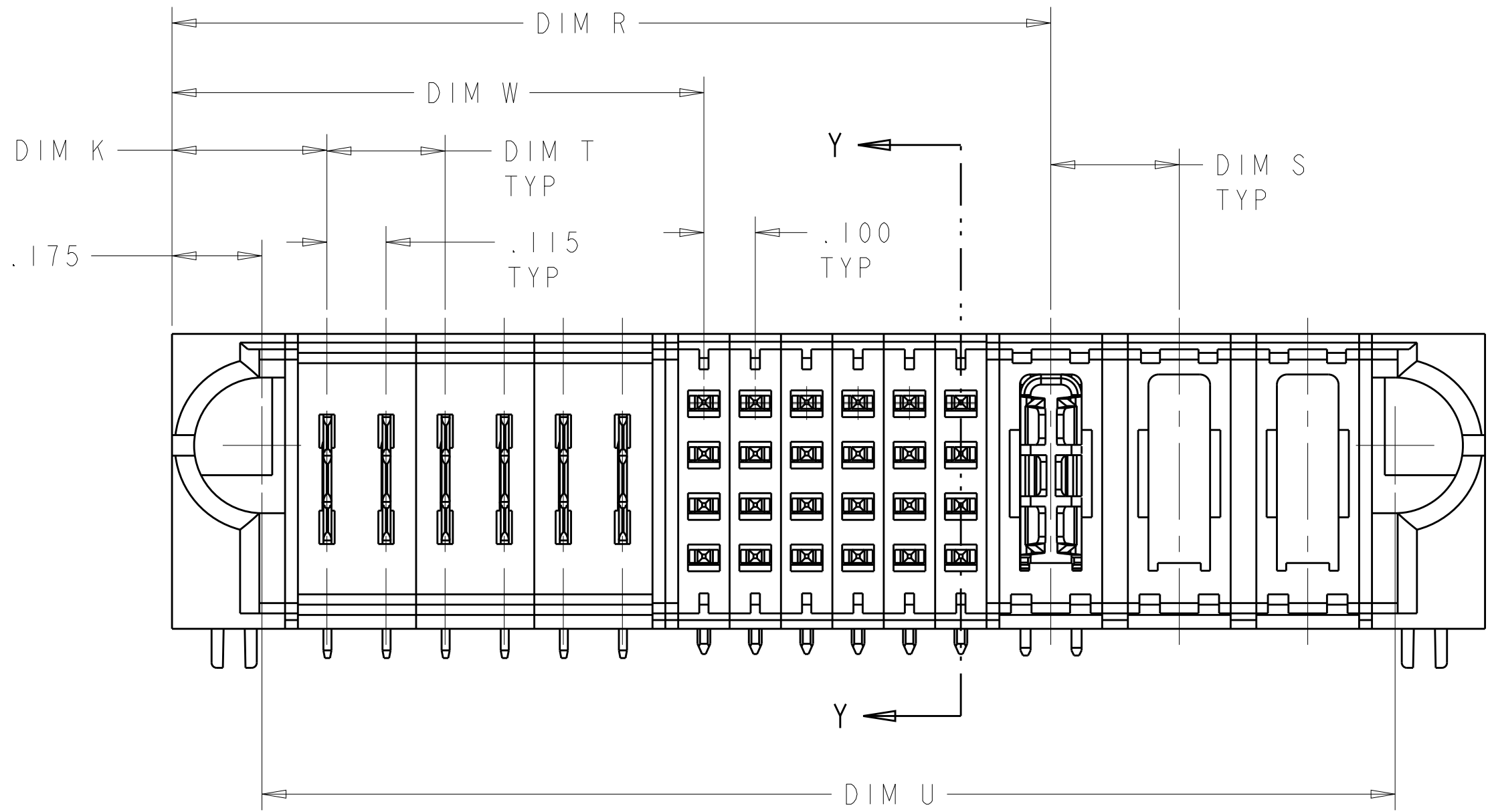
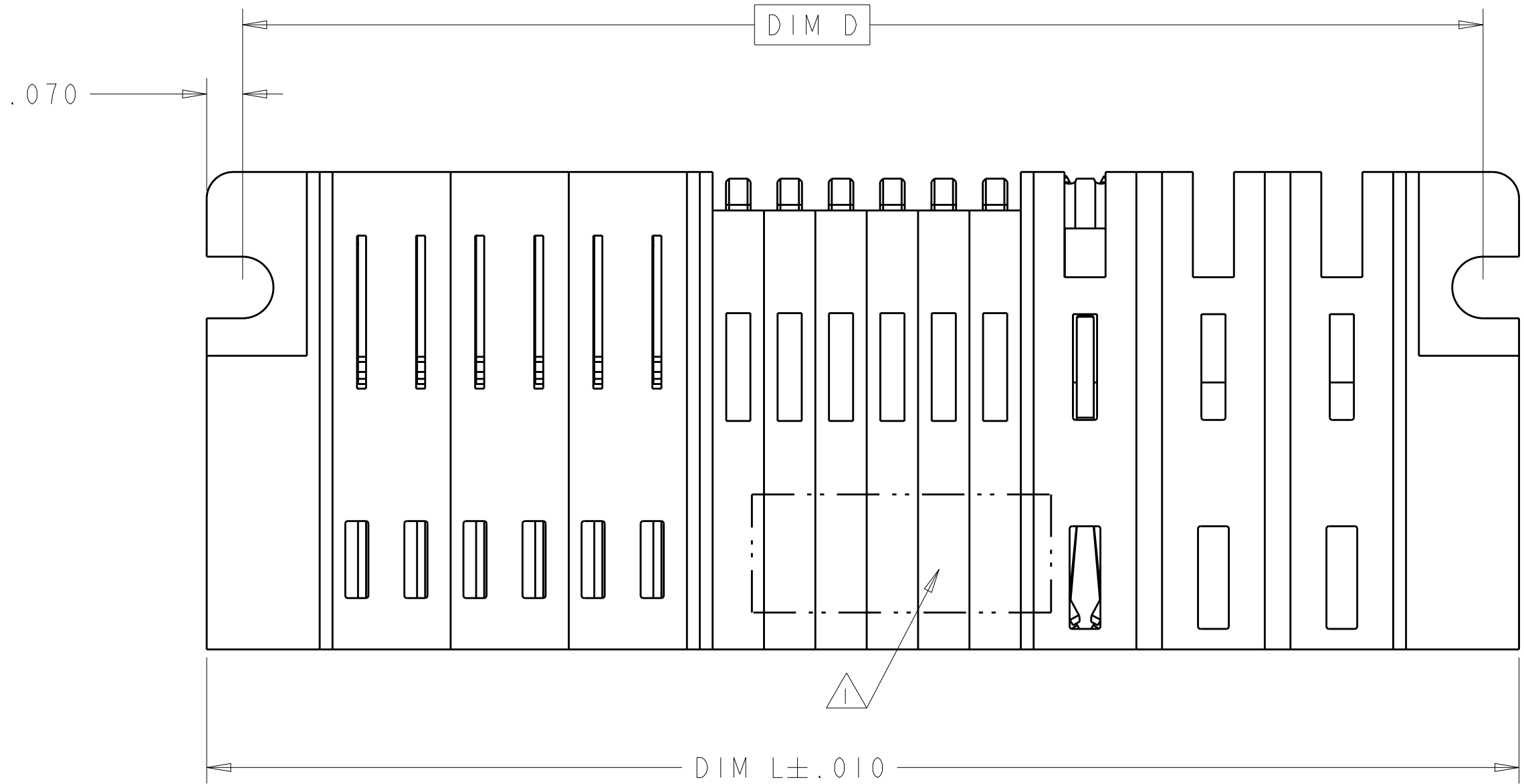
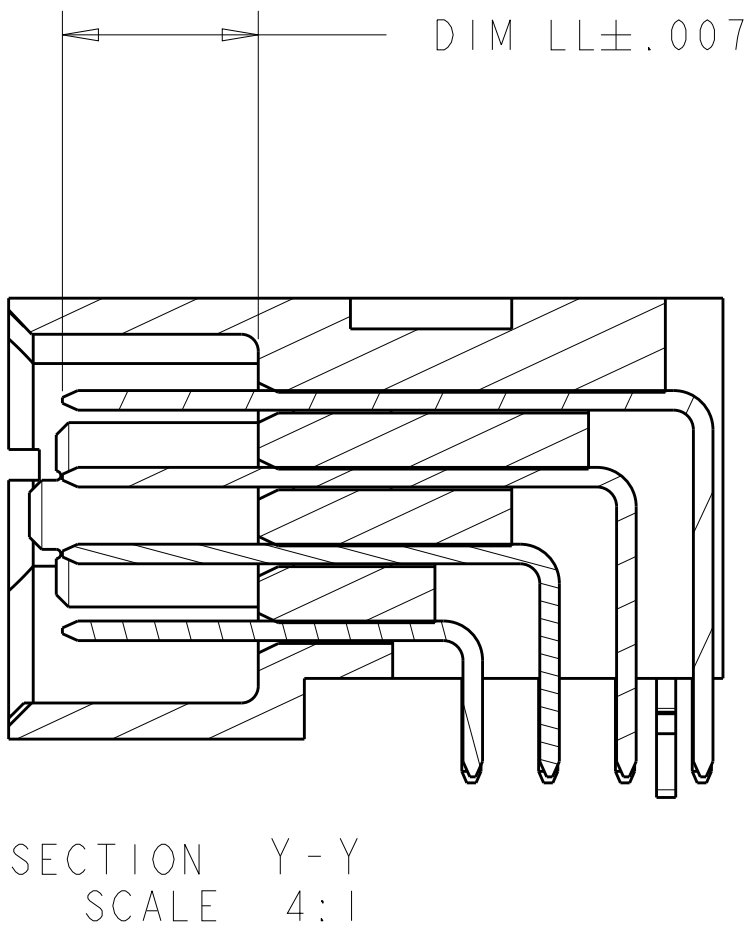
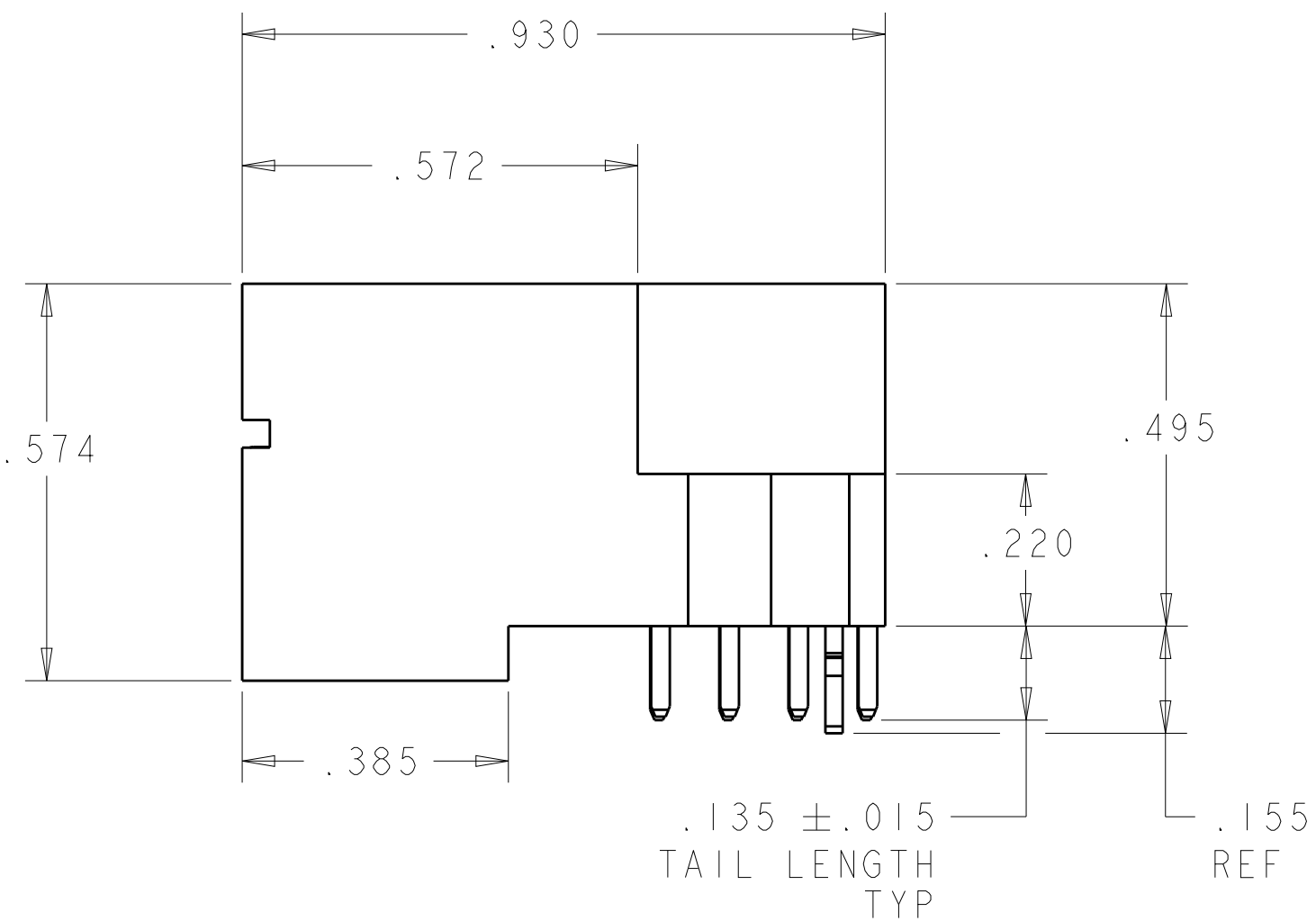


LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
			R9	REVISED 8-1	05NOV2014	CZ	SZ
			S	ADD NEW DASH NUMBER 8-2	07FEB2015	CZ	SZ
			S2	REVISED 8-2 CUSTOMER	09MAR2015	CZ	SZ



- 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, 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 VARIABLE DIMENSIONS SHOW ON TABLE OR PART VIEW
- 9 REFER TO PAGE 10 FOR DETAIL DIMENTIONS.



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN S. ZHAO 10APR2007	TE Connectivity	
DIMENSIONS: INCHES		CHK S. ZHAO 10APR2007		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD S. ZHAO -	NAME RIGHT ANGLE WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE	
0 PLC ±.01 1 PLC ±.01 2 PLC ±.01 3 PLC ±.005 4 PLC ±.0020 ANGLES ±2° FINISH		PRODUCT SPEC 108-2292 APPLICATION SPEC 114-13251 WEIGHT -	SIZE A100779C=6450830	
MATERIAL 2		3	CUSTOMER DRAWING	
SCALE 4:1		SHEET 1		OF 42
				REV S2

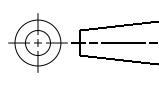
LOC	DIST	REVISIONS						
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD	
		-		SEE SHEET 1	-	-	-	

2.100	1.495	1.020	1.990	0.250	0.250	2.200	2.340	.3450	3P + 16S + 3P	7-6450830-3
1.000	.895	.570	.890	-	-	1.100	1.240	.345	1P + 8S + 1P	7-6450830-2
4.750	3.645	3.070	4.640	.250		4.850	4.990	.370	3ACP + 7P + 20S + 5P	7-6450830-1
3.850	3.4675	1.010	3.740	.230	.230	3.950	4.090	.2775	6LP + 96S + 4LP	7-6450830-0
3.850	3.4675	1.010	3.740	.230	.230	3.950	4.090	.2775	6LP + 96S + 4LP	6-6450830-9
2.420	2.0375	.780	2.310	.230	.230	2.520	2.660	.2775	4LP + 48S + 4LP	6-6450830-8
5.400	4.5575	1.700	5.290	.230	.230	5.500	5.640	.2775	12LP + 112S + 8LP	6-6450830-7
2.860	2.4775	1.820	2.750	.230	.300	2.960	3.100	.370	5ACP + 24S + 4LP	6-6450830-6
2.225	1.620	1.045	2.115	.250	.250	2.325	2.465	.345	3P + 20S + 3P	6-6450830-4
3.600	2.895	1.795	3.490	.300	.250	3.700	3.840	.345	6P + 40S + 3ACP	6-6450830-3
3.030		1.345 	2.920			3.130	3.270	.345 	5HDP + 24S + 1P + 7LP	6-6450830-2
1.135	.9825	.550	1.025	-	-	1.235	1.375	.2775	2LP + 16S + 2LP	6-6450830-0
3.200	3.120	2.370	3.090	-	.300	3.300	3.440	.320	7ACP + 24S + 1P	5-6450830-8
2.800	1.945	1.270	2.690	.250	.250	2.900	3.040	.345	4P + 24S + 4P	5-6450830-7
2.700	1.595	1.120	2.590	.250	.300	2.800	2.940	.345	3ACP + 16S + 5P	5-6450830-6
2.655	2.5025	2.145	2.545	.115		2.755	2.895	.345	3ACP+3P+12S+2LP	5-6450830-5
1.350	1.020	.745	1.240	.250	.250	1.450	1.590	.320	2P + 8S + 2P	5-6450830-4
2.450	1.595	1.120	2.340	.250	.300	2.550	2.690	.345	3ACP + 16S + 4P	5-6450830-3
2.350	1.670	1.095	2.240	.200	.200	2.450	2.590	.320	4HDP + 20S + 4HDP	5-6450830-2
1.300	1.145	.520	1.190	-	-	1.400	1.540	.345	1P + 24S + 1P	5-6450830-1
1.025	.7575	.550	.915	-	-	1.125	1.265	.2775	2LP + 8S + 3LP	5-6450830-0
2.300	1.6950	1.020	2.190	.250	.250	2.400	2.540	.3450	3P + 24S + 3P	4-6450830-9
2.995	2.190	1.415	2.885	.350	.280	3.095	3.235	.3025	8LP + 24S + 3P	4-6450830-8
1.280	.875	.575	1.170	.250	-	1.380	1.520	.3015	2LP + 8S + 2P	4-6450830-7
1.750	1.345	.845	1.640	.250	.250	1.850	1.990	.395	2P + 16S + 2P	4-6450830-6
2.300	1.6950	1.020	2.190	.250	.250	2.400	2.540	.3450	3P + 24S + 3P	4-6450830-5
1.600	1.245	.770	1.490	.250	.250	1.700	1.840	.3450	2P + 16S + 2P	4-6450830-4
6.100	2.195	1.845	5.990	.250	.375	6.200	6.340	.395	4P + 12S + 16P	4-6450830-3
2.500	1.645	1.270	2.390	.250	.250	2.600	2.740	.3450	4P + 12S + 4P	4-6450830-2
3.675	2.445	2.045	3.565	.375	.375	3.775	3.915	.3450	5ACP + 12S + 4ACP	3-6450830-8
1.190	-	1.060	1.080	-	.230	1.290	1.430	.3775	6LP + 8S	3-6450830-7
1.920	1.0775	.870	1.810	-	.300	2.020	2.160	.320	2ACP + 8S + 4LP	3-6450830-6
2.195	1.465	.865	2.085		.215	2.295	2.435	.2775	3LP + 20S + 4HDP	3-6450830-5
4.400	3.220	2.695	4.290		.300	4.500	4.640	.3700	8ACP + 16S + 4ACP	3-6450830-4
3.075	2.395	1.920	2.965		.300	3.175	3.3150	.3700	4ACP + 12S + 3P	3-6450830-3
3.075	2.395	1.920	2.965		.300	3.175	3.3150	.3700	4ACP + 12S + 3P	3-6450830-2
.935	.7825	.550	.825	-	-	1.035	1.175	.2775	2LP + 8S + 2LP	3-6450830-1
3.075	2.395	1.920	2.965		.300	3.175	3.3150	.3700	4ACP + 12S + 3P	3-6450830-0
2.160	1.7775	1.145	2.050	-	.300	2.260	2.400	.3450	3ACP + 24S+ 4LP	2-6450830-9
1.600	1.295	.720	1.490	.200	.200	1.700	1.840	.3450	2P + 20S + 2P	2-6450830-8
1.500	1.195	.720	1.390	.200	.200	1.600	1.740	.3450	2P + 16S + 2P	2-6450830-7
1.475	1.320	.595	1.365	-	-	1.575	1.715	.3700	1P + 24S + 1P	2-6450830-6
2.100	1.795	.720	1.990	.200	.200	2.200	2.340	.3450	2P + 40S + 2P	2-6450830-4
2.750	2.0450	1.270	2.640	.300	.250	2.850	2.990	.3450	4P + 28S + 3ACP	1-6450830-9
2.460	1.8575	.625	2.350	-	-	2.560	2.700	.1700	1P+2LP+48S+2LP+1P	1-6450830-7
-	-	-	-	-	-	-	-	-	4P+16S+24S+2HDP	1-6450830-8
2.750	2.0450	1.270	2.640	.300	.250	2.850	2.990	.3450	4P + 28S + 3ACP	1-6450830-5
1.800	1.4450	.770	1.690	.250	.250	1.900	2.040	.3450	2P + 24S + 2P	1-6450830-4
2.375	1.520	.845	2.265	.250	.300	2.475	2.615	.3450	2ACP + 24S + 4P	1-6450830-3
3.000	2.5025	1.945	2.890	.230		3.000	3.240	.3200	8HDP + 20S + 5LP	1-6450830-2
3.615	1.6850	1.010	3.505		.230	3.715	3.855	.2775	6LP + 24S + 10P	1-6450830-0
2.300	1.6950	1.020	2.190	.250	.250	2.400	2.540	.3450	3P + 24S + 3P	6450830-9
2.480	2.3275	1.520	2.370	-	.250	2.580	2.720	.3450	5P + 32S + 2LP	6450830-8
3.400	2.2950	1.570	3.290	.250	.250	3.500	3.640	.3450	5P + 24S + 5P	6450830-7
1.800	1.4450	.770	1.690	.250	.250	1.900	2.040	.3450	2P + 24S + 2P	6450830-5
1.780	1.6025	.770	1.670	-	.250	1.880	2.020	.3450	2P + 32S + 2LP	6450830-4
2.310	1.6725	1.240	2.200	.230	.230	2.410	2.550	.3025	8LP + 16S + 6LP	6450830-3
2.315	1.7100	1.035	2.205	.250	.230	2.415	2.555	.3025	6LP + 24S + 3P	6450830-2
.935	.7825	.550	.825	-	-	1.035	1.175	.2775	2LP + 8S + 2LP	6450830-1
DIM V	DIM R	DIM W	DIM U	DIM S	DIM T	DIM D	DIM L	DIM K	DESCRIPTION	PART NUMBER

4.350	2.405	1.380	4.240			4.450	4.590	.2775	9LP + 36S + 1P + 16LP	8-6450830-2
4.500	2.170	.795	4.390			4.600	4.740	.345	2P + 48S + 10P	8-6450830-1
2.250	1.645	1.170	2.140	.250	.300	2.300	2.490	.370	3ACP + 16S + 3P	8-6450830-0
4.300	2.695	2.020	4.190	.250	.250	4.400	4.540	.345	7P + 24S + 7P	7-6450830-9
4.180	3.325	1.700	4.070	.250	.230	4.280	4.420	.2775	12LP + 60S + 4P	7-6450830-8
2.650	2.545	1.270	2.540	-	.250	2.750	2.890	.345	4P + 48S + 1P	7-6450830-7
1.750	1.3675	1.060	1.755	.230	.230	1.850	1.990	.2775	3LP + 12S + 4LP	7-6450830-6
DIM V	DIM R	DIM W	DIM U	DIM S	DIM T	DIM D	DIM L	DIM K	DESCRIPTION	PART NUMBER

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
#P

DWN
S. ZHAO

CHK
S. ZHAO

APVD
S. ZHAO

10APR2007

10APR2007

-

PRODUCT SPEC
108-2292

APPLICATION SPEC
114-13251

WEIGHT
-

NAME
-

SIZE
A1

CAGE CODE
100779

DRAWING NO
6450830

RESTRICTED TO
-

CUSTOMER DRAWING

SCALE
4:1

SHEET
2

OF
42

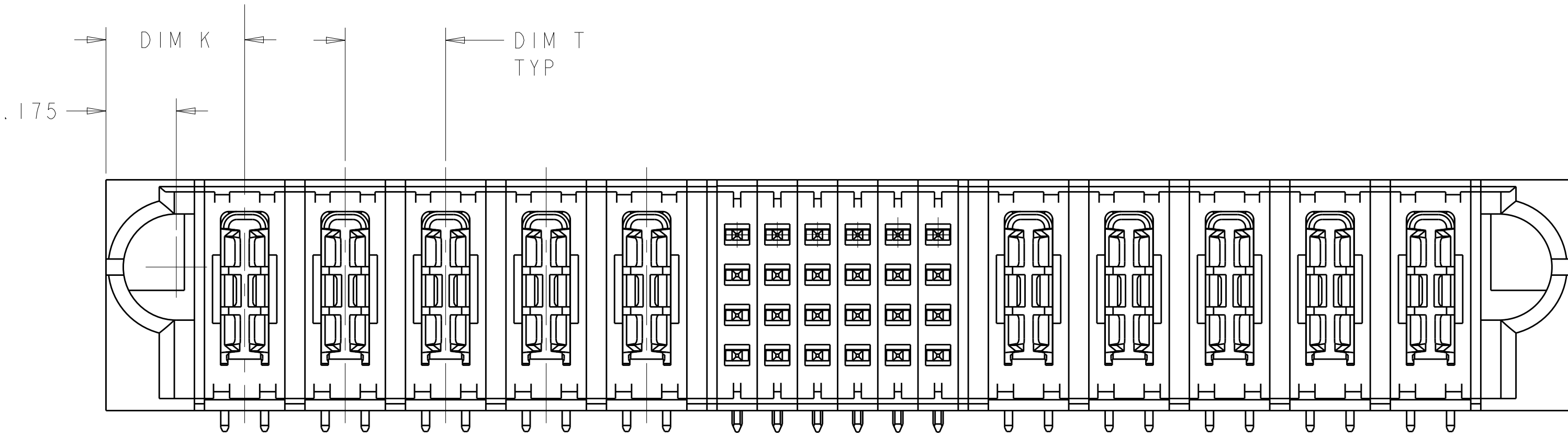
REV
S2

TE Connectivity

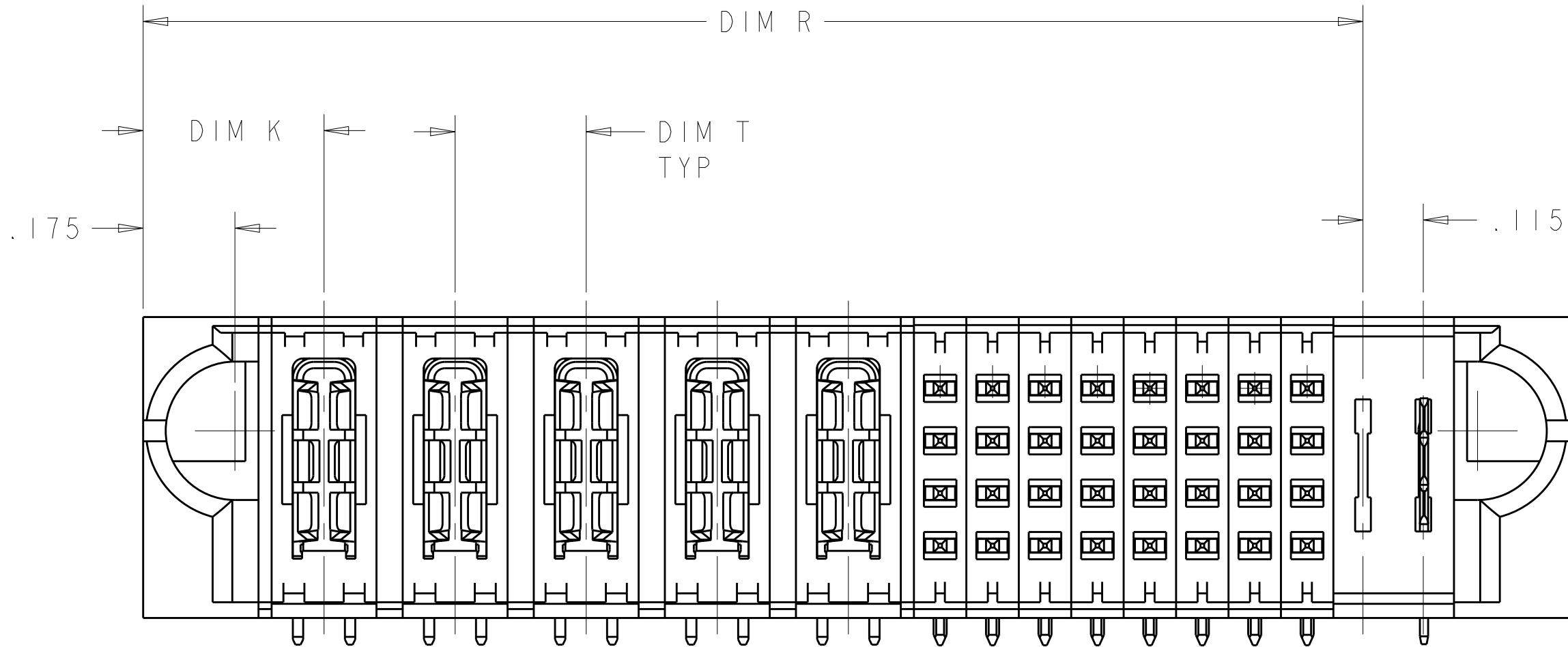
RIGHT ANGLE WITH SHORT GUIDES
AND LP CONTACTS ASSEMBLY
MULTI-BEAM XLE

4805 (3/11)

LOC	DIST	REVISIONS				
		P	LYR	DESCRIPTION	DATE	OWN
ES	00	-	-	SEE SHEET 1	-	-



FOR "P+S+P"CONFIGURATION
UNSPECIFY DIMENSIONS PLEASE REFER TO PAGE 1



FOR "P+S+LP"CONFIGURATION
UNSPECIFY DIMENSIONS PLEASE REFER TO PAGE 1

HOLD DOWN	HD
.135 SIGNAL CON, ROW D,MFBL LL=.304	FJ
.135 SIGNAL CON, ROW C,MFBL LL=.304	FK
.135 SIGNAL CON, ROW B,MFBL LL=.304	FN
.135 SIGNAL CON, ROW A,MFBL LL=.304	FS
.135 SIGNAL CON, ROW D,MLBF LL=.204	E
.135 SIGNAL CON, ROW C,MLBF LL=.204	F
.135 SIGNAL CON, ROW B,MLBF LL=.204	G
.135 SIGNAL CON, ROW A,MLBF LL=.204	H
.135 SIGNAL CON, ROW D,STANDARD LL=.254	J
.135 SIGNAL CON, ROW C,STANDARD LL=.254	K
.135 SIGNAL CON, ROW B,STANDARD LL=.254	N
.135 SIGNAL CON, ROW A,STANDARD LL=.254	S
.135 STANDARD POWER CON,3 BEAMS	TM
.135 SOLDER LOWER POWER,MFBL	LMF
.135 SOLDER LOWER POWER,STD	LM
.135 SOLDER LOWER POWER,MLBF	LML
DESCRIPTION	IDENTIFIER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN

S.ZHAO

10APR2007

CHK

S.ZHAO

10APR2007

APVD

S.ZHAO

-

DIMENSIONS:

INCHES

0 PLC

±"

1 PLC

±.01

2 PLC

±.01

3 PLC

±.005

4 PLC

±.0020

ANGLES

±2°

FINISH

-

TOLERANCES UNLESS OTHERWISE SPECIFIED:

PRODUCT SPEC

108-2292

APPLICATION SPEC

114-13251

WEIGHT

-

MATERIAL

-

CUSTOMER DRAWING

TE

TE Connectivity

NAME

RIGHT ANGLE WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A1

00779

6450830

-

SCALE

4:1

SHEET

3

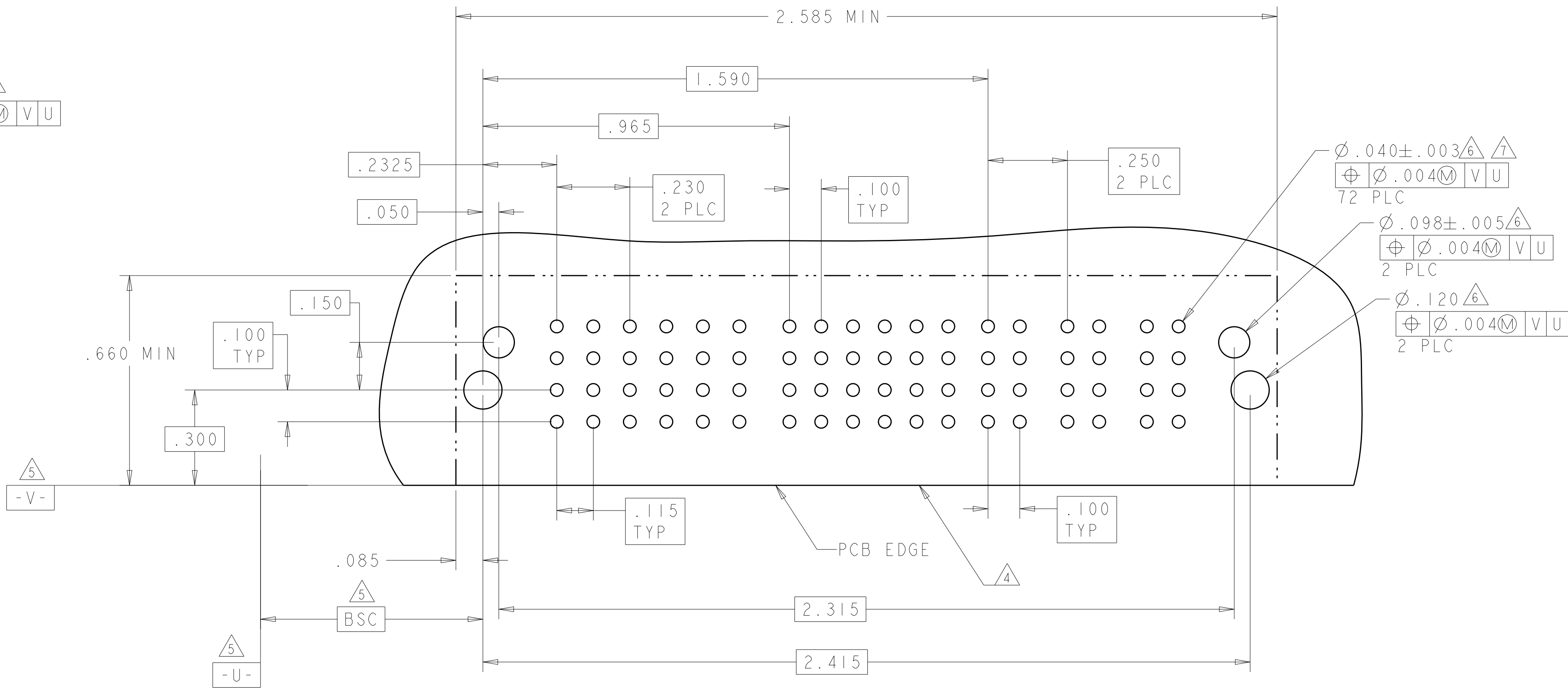
OF

42

REV

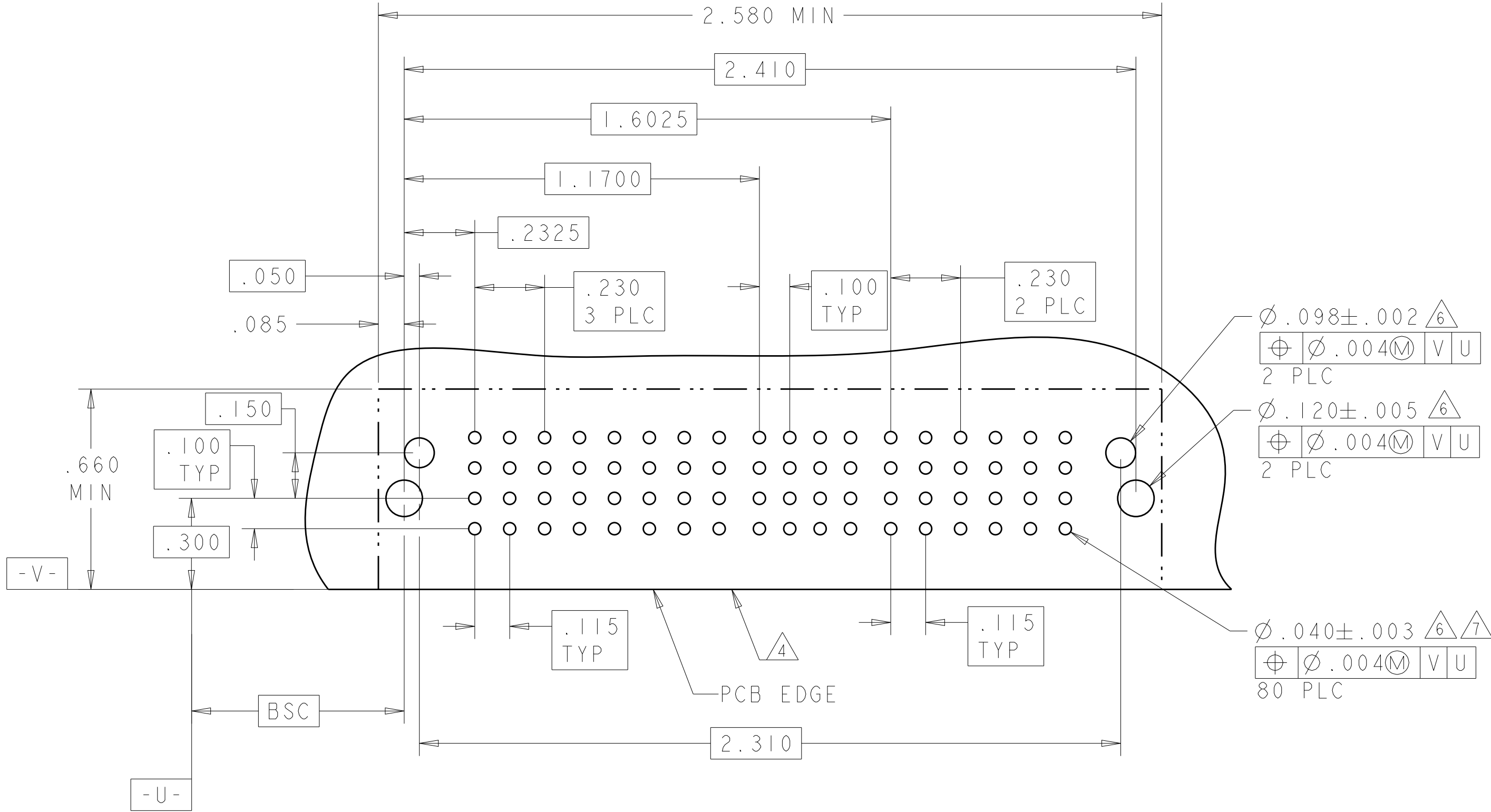
S2

PART NUMBER	ROWS		POWER						SIGNAL						POWER			
			LP1	LP2	LP3	LP4	LP5	LP6	1	2	3	4	5	6	P1	P2	P3	
6450830-2	D C B A		LM	LM	LM	LM	LM	LM	J	J	J	J	J	J	TM	TM	TM	
									K	K	K	K	K	K				
									N	N	G	N	N	N				
									S	S	S	S	S	S				
6LP + 24S + 3P																		

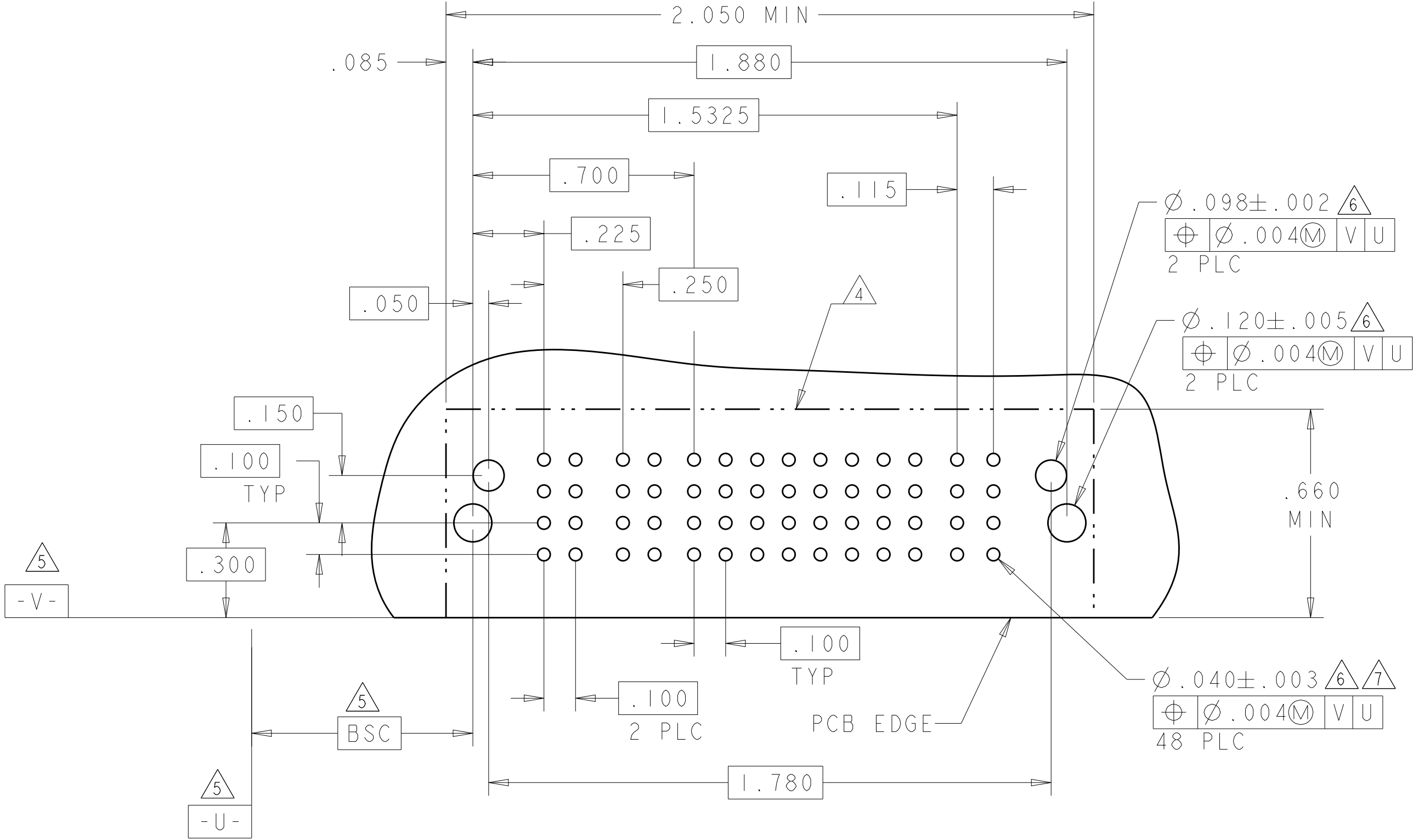
4805 (3/11)

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

PART NUMBER	ROWS		POWER								SIGNAL				POWER						
			LP1	LP2	LP3	LP4	LP5	LP6	LP7	LP8	1	2	3	4	LP9	LP10	LP11	LP12	LP13	LP14	
6450830-3	D C B A									J	J	J	J								
										K	K	K	K								
										N	N	N	N								
										S	S	S	S								
8LP + 16S + 6LP																					



PART NUMBER	ROWS		POWER		SIGNAL								POWER		
			P1	P2	1	2	3	4	5	6	7	8	LPI	LP2	
6450830-4	D C B A		TM	TM	J	J	J	J	J	J	J	J	LM	LM	
					K	K	K	K	K	K	K	K			
					N	N	N	N	N	N	N	N			
					S	S	S	S	S	S	S	S			
2P + 32S + 2LP															

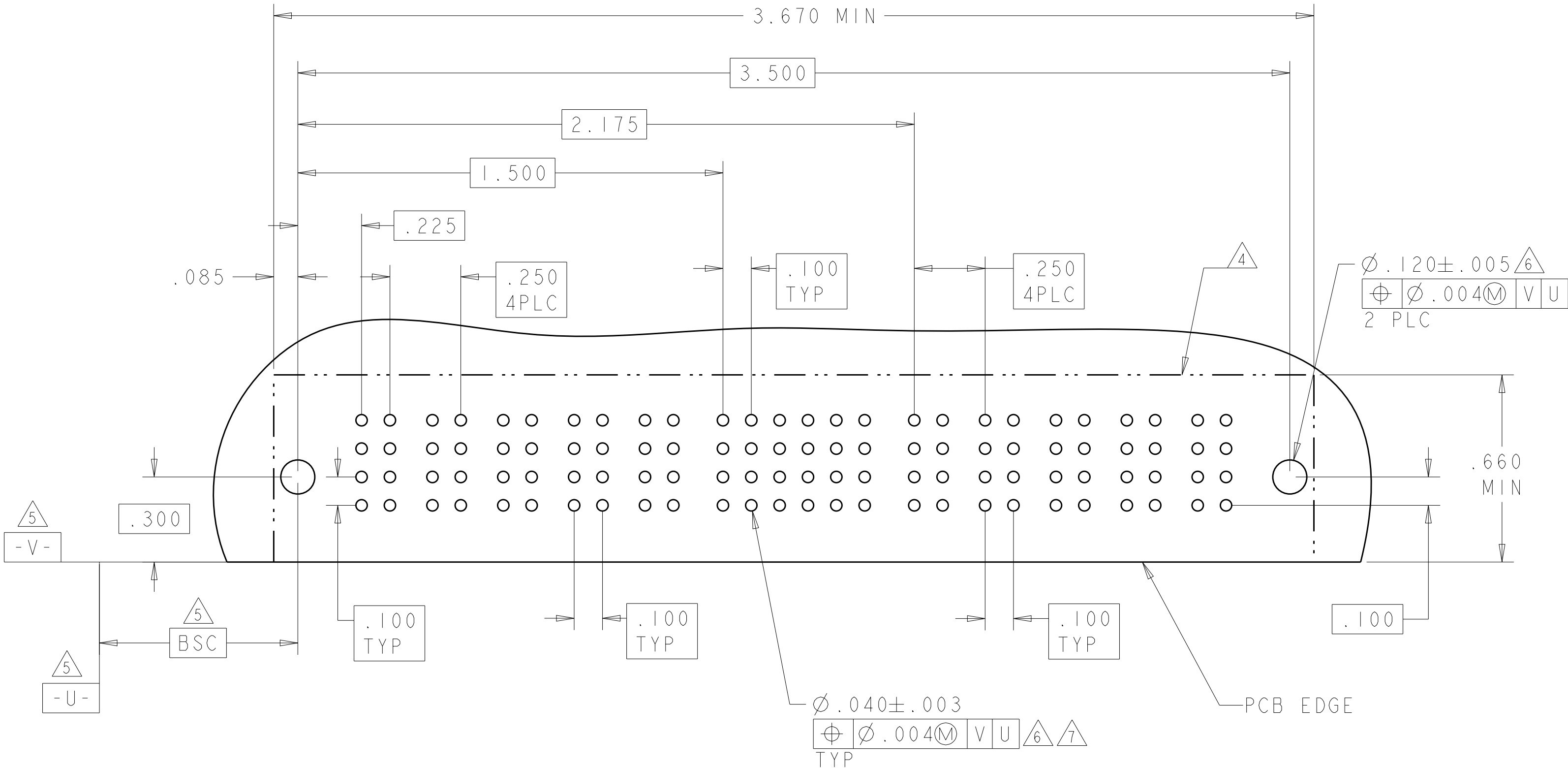
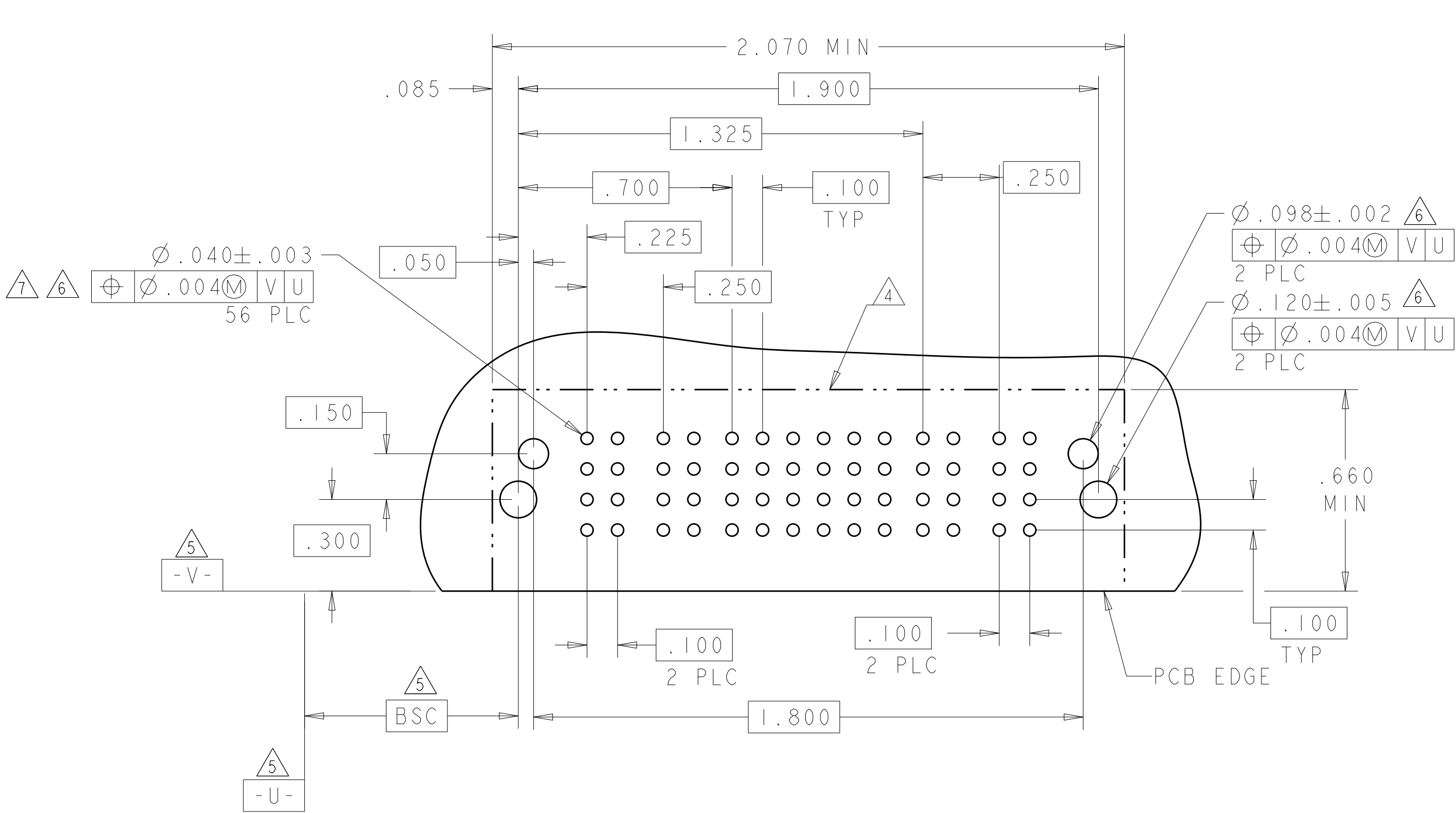


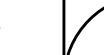
THIS DRAWING IS A CONTROLLED DOCUMENT.			DWN S.ZHAO 10APR2007	 TE Connectivity							
			CHK S.ZHAO 10APR2007								
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	RIGHT ANGLE WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE						
INCHES											
		0 PLC	±.	PRODUCT SPEC							
		1 PLC	±.								
		2 PLC	±.01								
		3 PLC	±.005								
		4 PLC	±.0020	APPLICATION SPEC	SIZE CAGE CODE DRAWING NO RESTRICTED TO						
		ANGLES	±?	114-13251							
MATERIAL		FINISH	WEIGHT	A				00779	©=6450830		
CUSTOMER DRAWING				SCALE	4:1	SHEET	5	OF	42	REV	S2

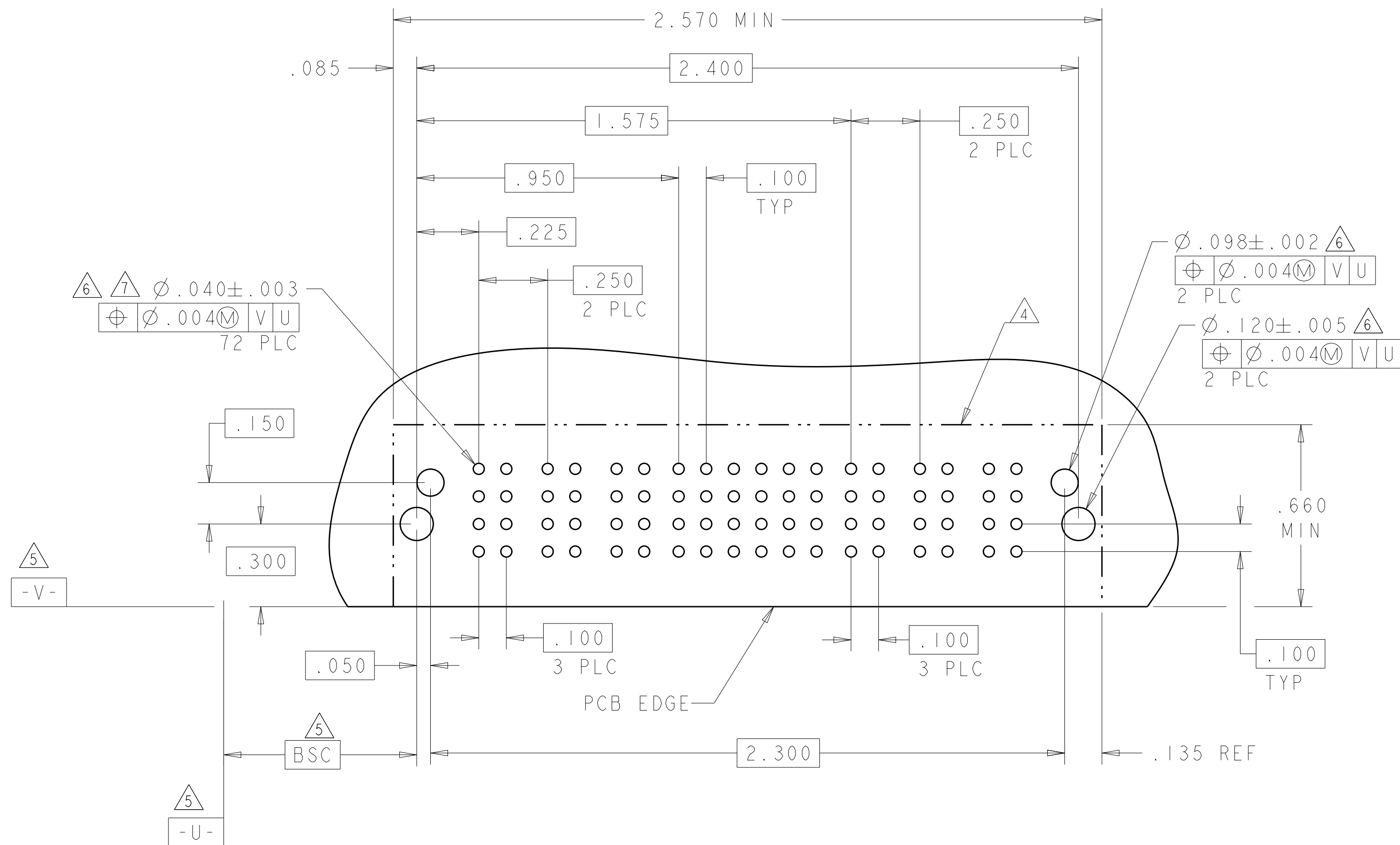
LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-		SEE SHEET 1	-	-	-

PART NUMBER	ROWS		POWER		SIGNAL						POWER		
			P1	P2	1	2	3	4	5	6	P3	P4	
6450830-5	D C B A	 HD	TM	TM	J	J	J	J	J	J	TM	TM	 HD
					K	K	K	K	K	K			
					N	N	N	N	N	N			
					S	S	S	S	S	S			
2P + 24S + 2P													

PART NUMBER	ROWS		POWER					SIGNAL						POWER						
			P1	P2	P3	P4	P5	1	2	3	4	5	6	P6	P7	P8	P9	P10		
6450830-7	D C B A			TM	TM	TM	TM	TM	J	J	J	J	J	J	TM	TM	TM	TM	TM	
									K	K	K	K	K	K						
									N	N	N	N	N	N						
									S	S	S	S	S	S						
5P + 24S + 5P																				

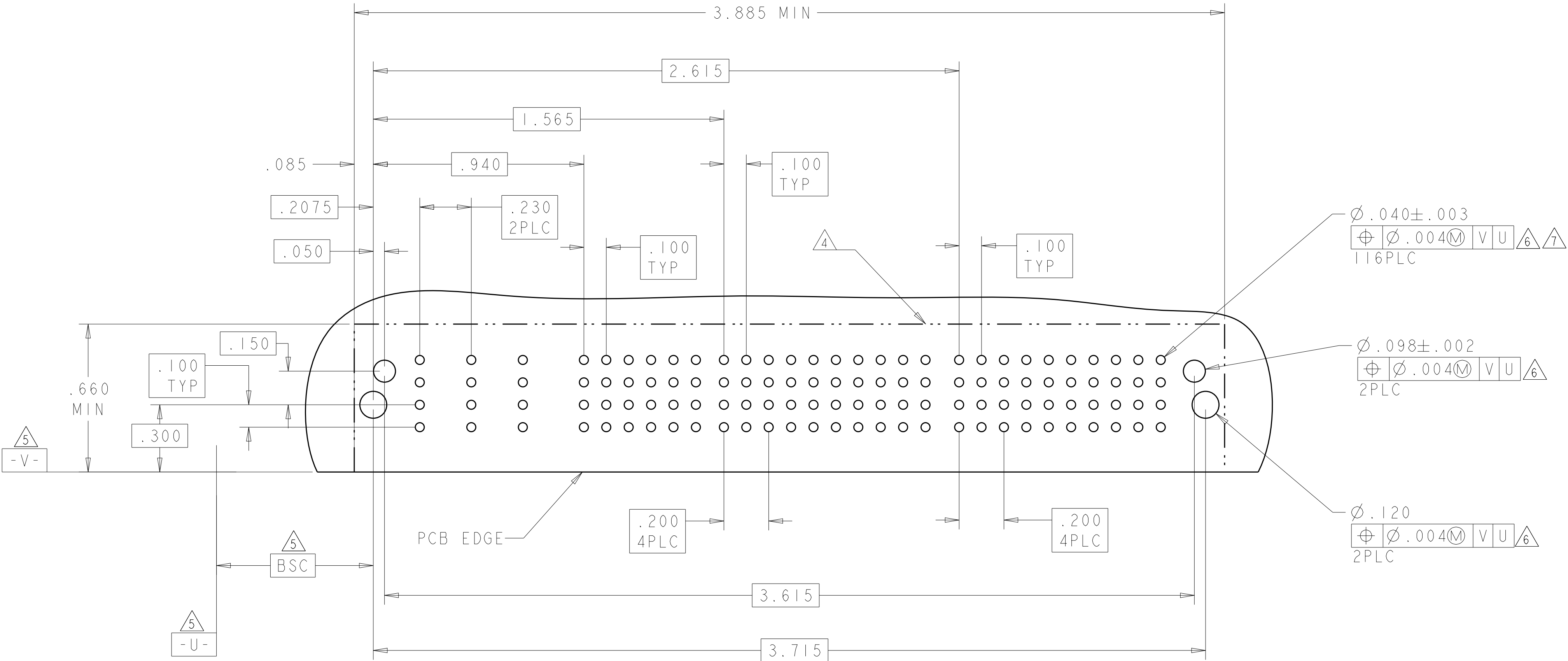
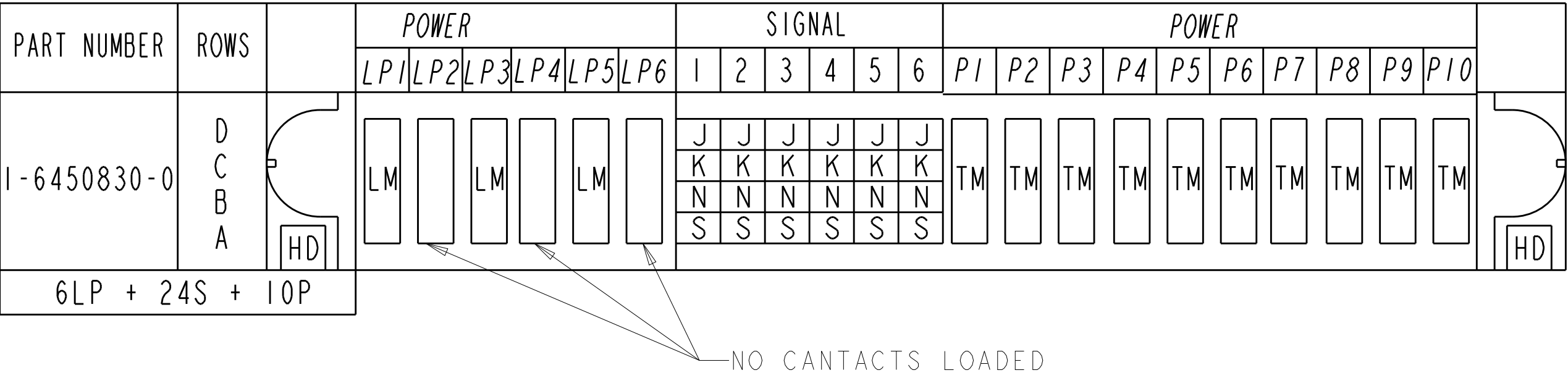


PART NUMBER	ROWS		POWER			SIGNAL						POWER			
			P1	P2	P3	1	2	3	4	5	6	P4	P5	P6	
6450830-9	D					J	J	J	J	J	J				
	K					K	K	K	K	K					
	N					N	N	N	N	N					
	S					S	S	S	S	S					
3P + 24S + 3P															

$$3P + 24S + 3P$$


THIS DRAWING IS A CONTROLLED DOCUMENT.						DWN S.ZHAO		10APR2007				TE Connectivity	
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		CHK S.ZHAO		10APR2007		NAME		RIGHT ANGLE WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE			
		Ø PLC ± .01 PLC ± .01 PLC ± .005 PLC ± .0020 ANGLES °±		PRODUCT SPEC 108-2292		APPLICATION SPEC 114-13251		WEIGHT		SIZE CAGE CODE DRAWING NO		RESTRICTED TO	
MATERIAL -		FINISH -		CUSTOMER DRAWING				A100779C		6450830		-	
								SCALE 4:1		SHEET 7 OF 42		REV.S	

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



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DWN

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10APR2007

CHK

S.ZHAO

10APR2007

APVD

S.ZHAO

-

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

-

PRODUCT SPEC

108-2292

APPLICATION SPEC

114-13251

WEIGHT

-

CUSTOMER DRAWING

NAME

RIGHT ANGLE WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE

SIZE

A1

CAGE CODE

00779

DRAWING NO

6450830

RESTRICTED TO

-

SCALE

4:1

SHEET

8

OF

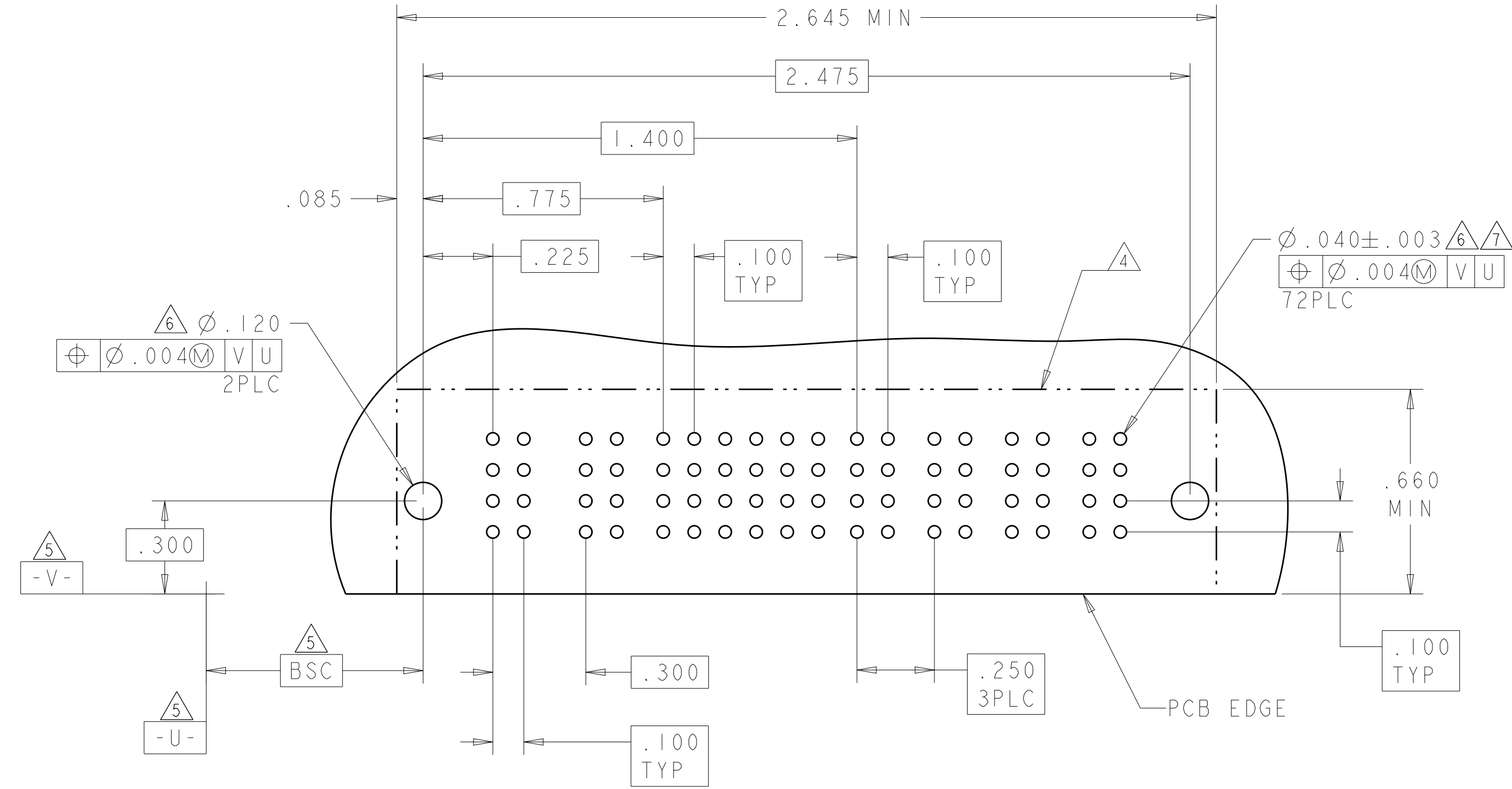
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REV

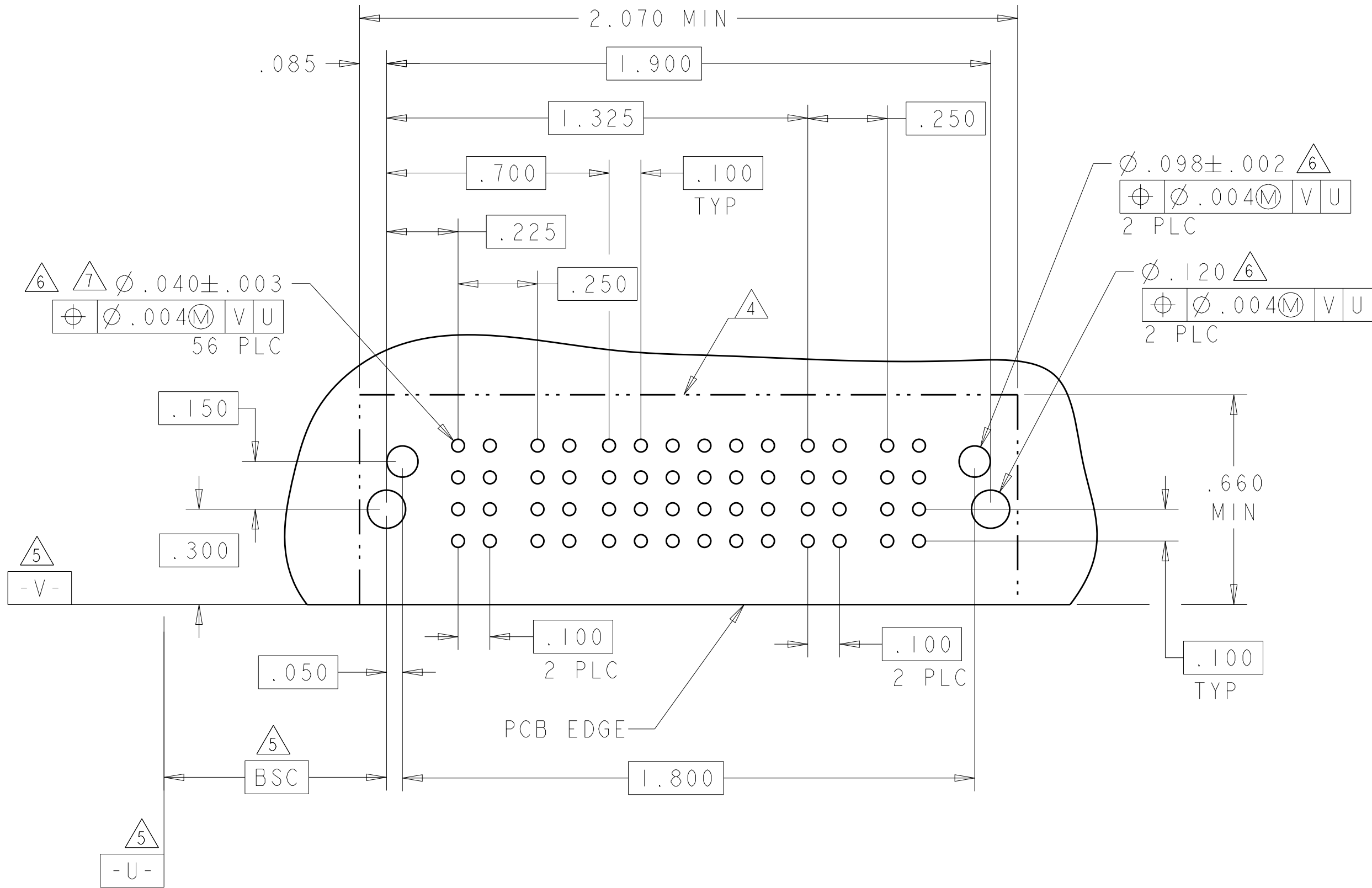
S2

TE Connectivity

PART NUMBER	ROWS		POWER		SIGNAL						POWER				
			P1	P2	1	2	3	4	5	6	P3	P4	P5	P6	
I-6450830-3	D C B A		TM	TM		J	J	J	J	J	TM	TM	TM	TM	
						K	K	K	K	K					
						N	N	N	N	N					
						S	S	S	S	S					
2ACP + 24S + 4P															



PART NUMBER	ROWS		POWER		SIGNAL						POWER		
			P1	P2	1	2	3	4	5	6	P3	P4	
I-6450830-4	D C B A		 TM	 TM	J	J	J	J	J	J	 TM	 TM	
					K	K	K	K	K	K			
					N	N	G	N	N	N			
					S	S	S	S	S	S			
2P + 24S + 2P													

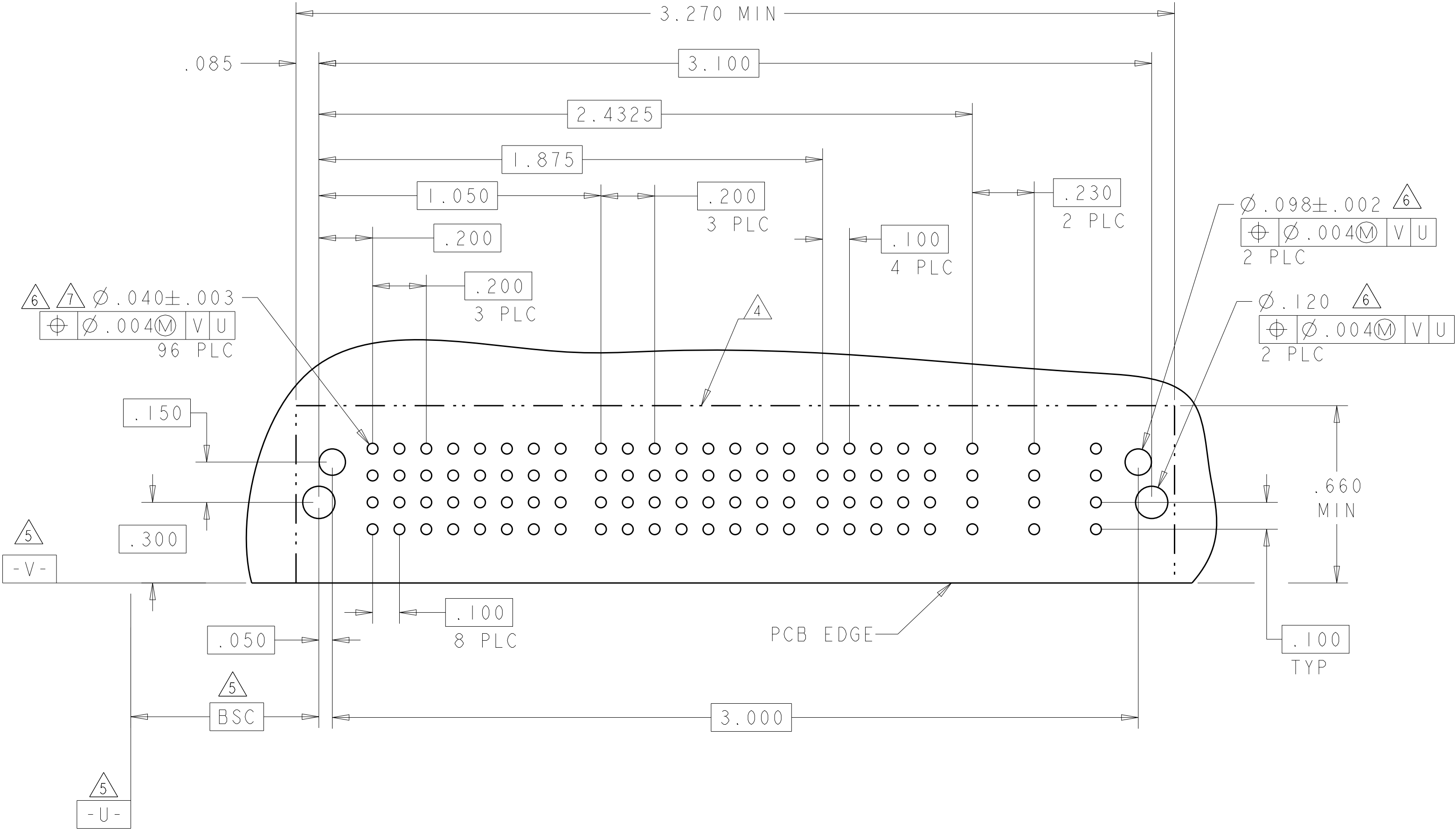


LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-		SEE SHEET 1	-	-	-

PART NUMBER	ROWS		POWER								SIGNAL					POWER					
			P1	P2	P3	P4	P5	P6	P7	P8	1	2	3	4	5	LP1	LP2	LP3	LP4	LP5	
I-6450830-2	D C B A		TM	TM	TM	TM	TM	TM	TM	J	J	J	J	J	LMF		LM		LM		
										K	K	K	K	K							
										N	N	N	N	N							
										S	S	S	S	S							
8HDP + 20S + 5LP																					250Ω

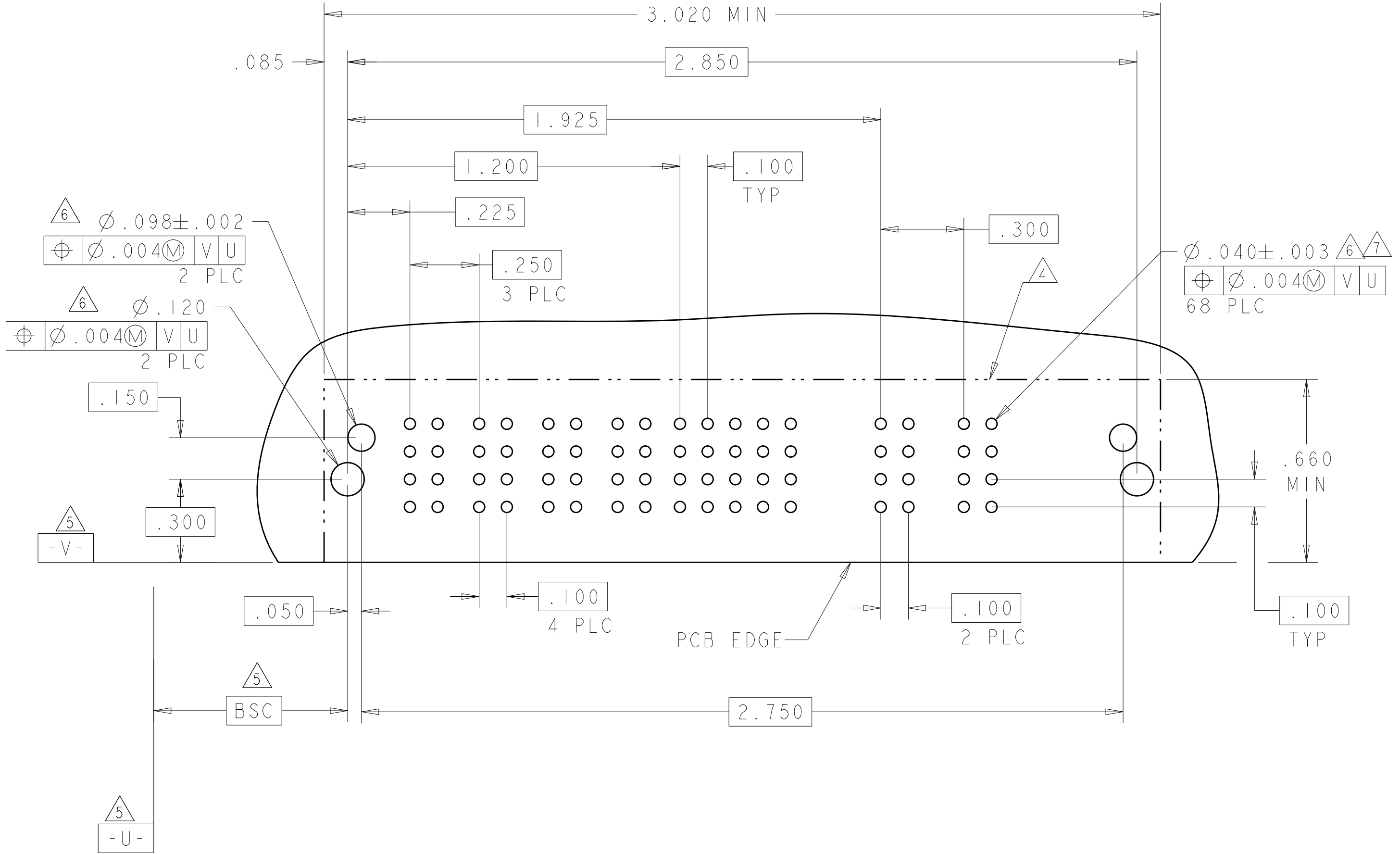
.250
6 PLC

.200
6 PLC



PART NUMBER	ROWS		POWER				SIGNAL							POWER			
			P1	P2	P3	P4	1	2	3	4	5	6	7	P5	P6	P7	
I-6450830-5	D C B A	 HD	TM	TM	TM	TM	J	J	J	J	J			TM	TM	 HD	
							K	K	K	K	K						
							N	N	N	N	N						
							S	S	S	S	S						
4P + 28S + 3ACP																	

NO CONTACTS LOADED



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S.ZHAO
APVD
S.ZHAO

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10APR2007
-

DIMENSIONS:
INCHES

MATERIAL
-

TOLERANCES UNLESS
OTHERWISE SPECIFIED:

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

PRODUCT SPEC
108-2292
APPLICATION SPEC
114-13251
WEIGHT
-

NAME
RIGHT ANGLE WITH SHORT GUIDES
AND LP CONTACTS ASSEMBLY
MULTI-BEAM XLE

SIZE
A1

CAGE CODE
00779

DRAWING NO
C=6450830

RESTRICTED TO
-

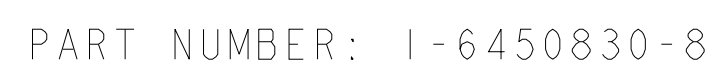
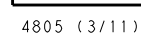
CUSTOMER DRAWING

SCALE
4:1

SHEET
10

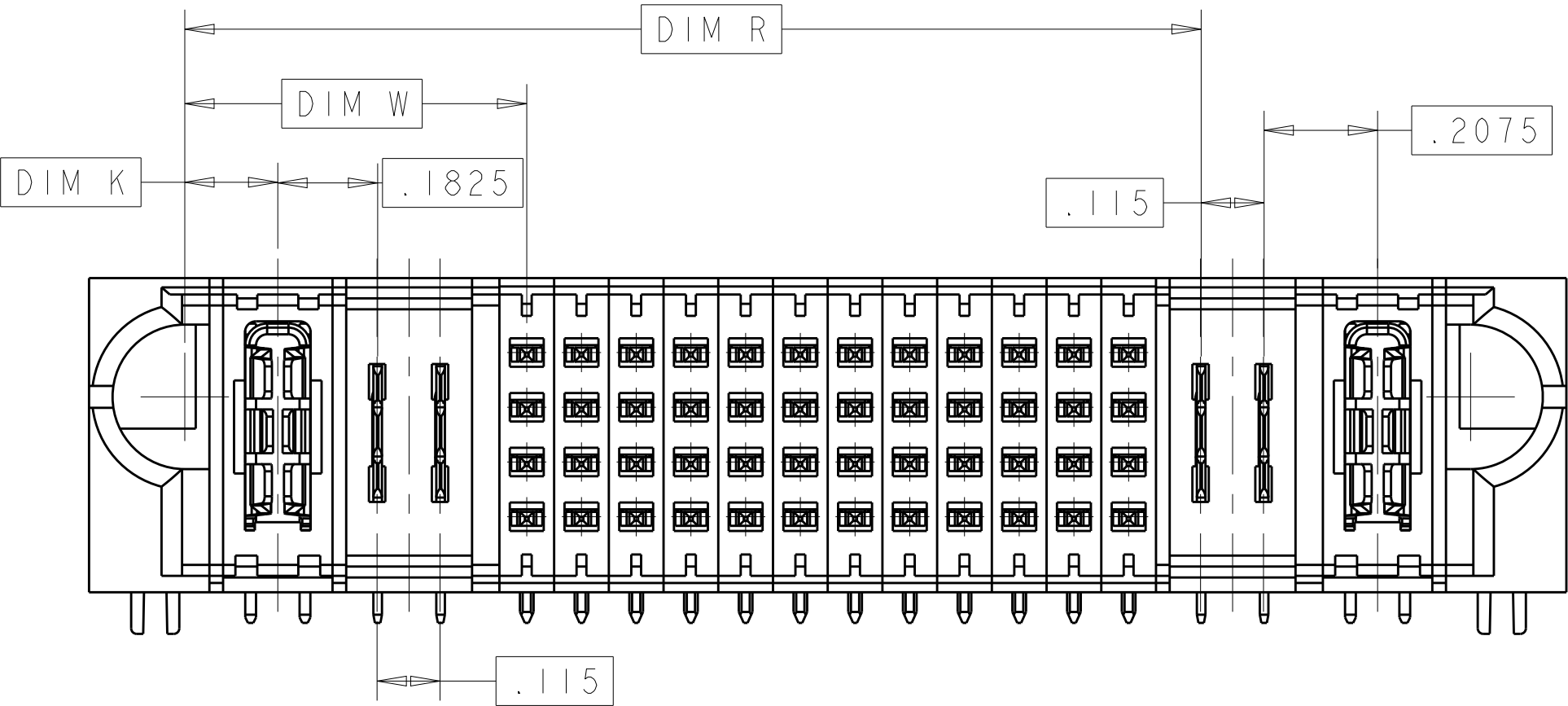
OF
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REV
S2

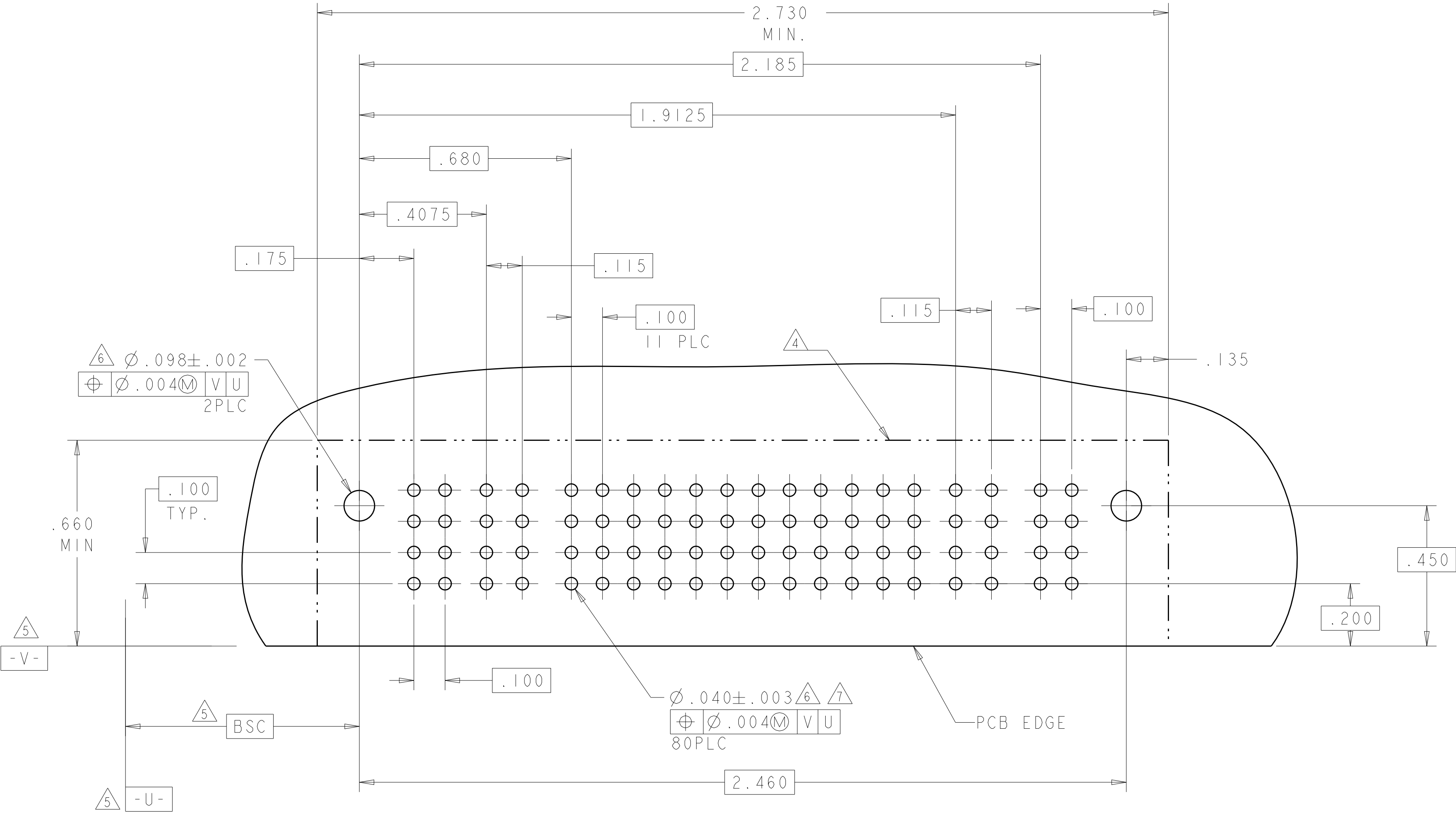
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LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-		SEE SHEET 1	-	-	-

PART NUMBER	ROWS		POWER			SIGNAL															
			P1	LP1	LP2	1	2	3	4	5	6	7	8	9	10	11	12	LP3	LP4	P2	
1-6450830-7	D		TM	LML	LML	E	E	E	E	E	E	E	E	E	E	E	LML	LMF	TM		
	F					F	F	F	F	F	F	F	F	F	F	F					
	G					G	G	G	G	G	G	G	G	G	G	G					G
	H					H	H	H	H	H	H	H	H	H	H	H					H
IP + 2LP + 48S + 2LP + IP																					



P/N:1-6450830-7 CONFIGURATION
UNSPECIFIED DIMENSION REFER TO SHEET 1



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-

DIMENSIONS:

INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±"

1 PLC ±.01

2 PLC ±.01

3 PLC ±.005

4 PLC ±.0020

ANGLES ±2°

FINISH

-

MATERIAL

-

PRODUCT SPEC

108-2292

APPLICATION SPEC

114-13251

WEIGHT

-

CUSTOMER DRAWING

NAME

RIGHT ANGLE WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE

SIZE

A1

CAGE CODE

00779

DRAWING NO

6450830

RESTRICTED TO

-

SCALE

4:1

SHEET

12

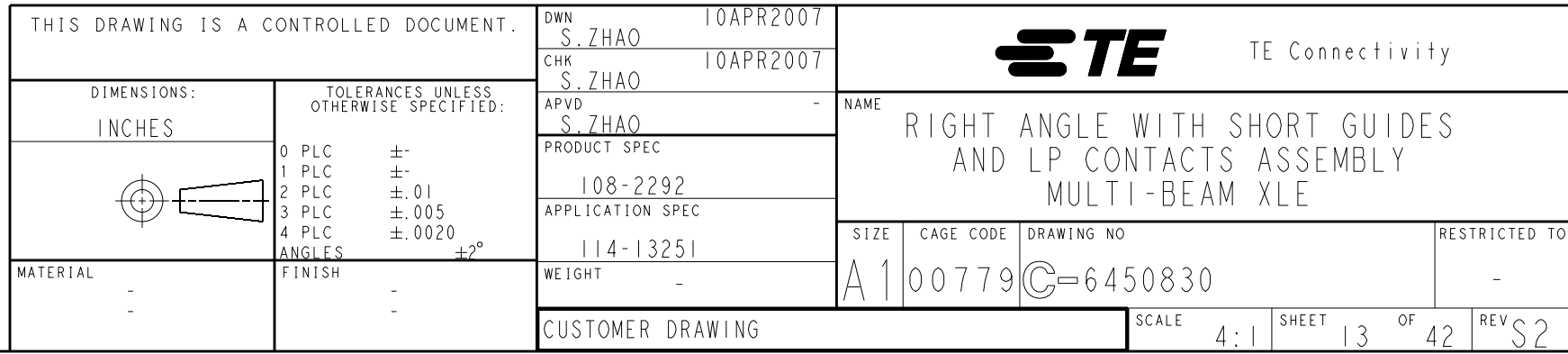
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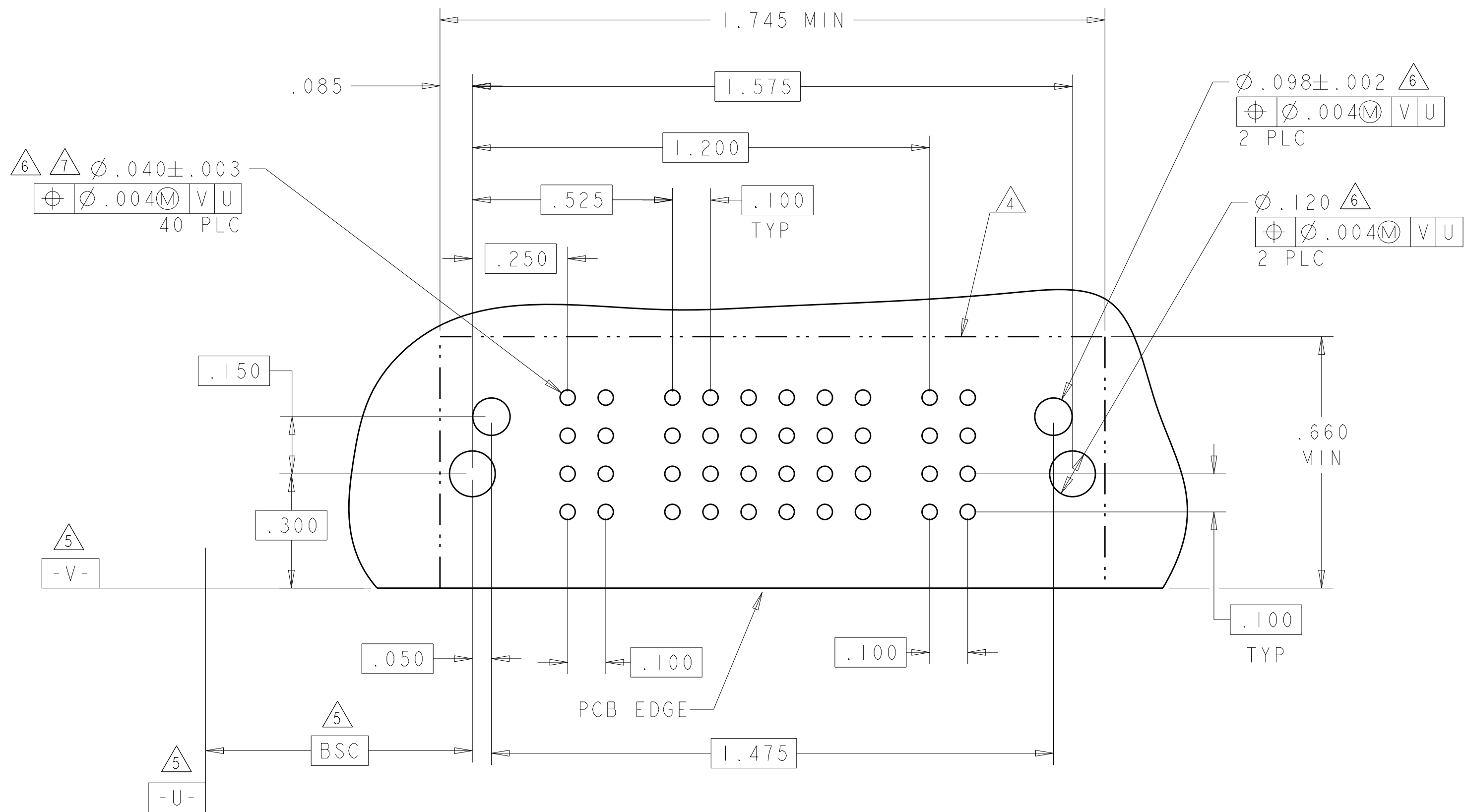
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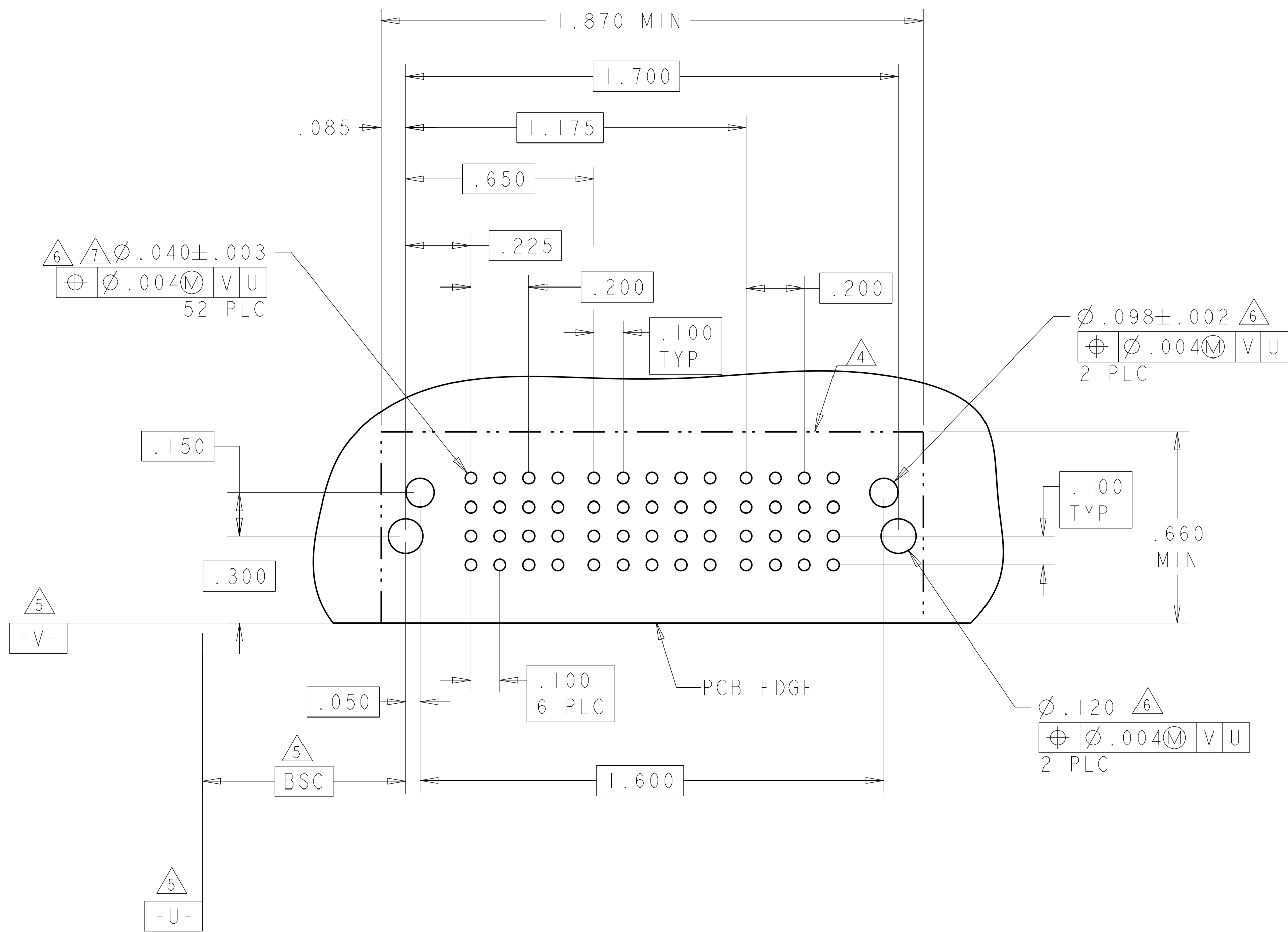
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TE Connectivity

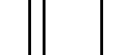
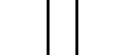
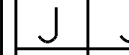
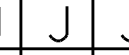
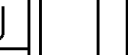
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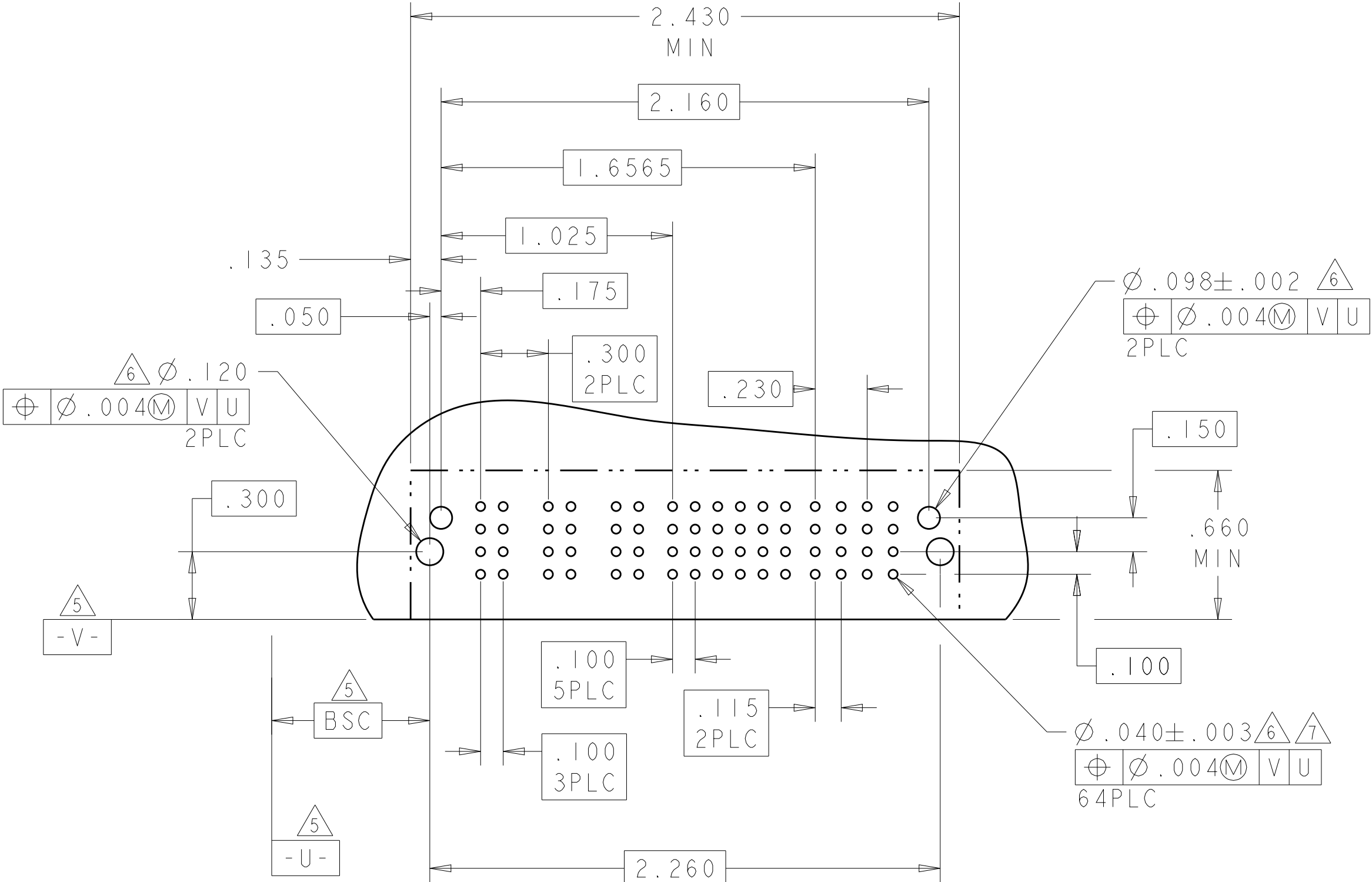
[illegible]4805 (3/11)

PART NUMBER	ROWS		POWER		SIGNAL					POWER		
			P1	P2	1	2	3	4	5	P3	P4	
2-6450830-8	D		TM	TM	J	J	J	J	J	TM	TM	
	K				K	K	K	K				
	N				N	N	N	N				
	S				S	S	S	S				
	A	HD										HD
2P + 20S + 2P												

4805 (3/11)

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

PART NUMBER	ROWS		POWER			SIGNAL						POWER				
			P1	P2	P3	1	2	3	4	5	6	P4	P5	P6	P7	
2-6450830-9	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						
3ACP + 24S + 4LP																



PART NUMBER	ROWS		POWER				BLANK	SIGNAL			POWER			
			P1	P2	P3	P4		1	2	3	P5	P6	P7	
3-6450830-0	D C B A			TM	TM	TM	TM	BLANK	F	J	J	TM	TM	TM
									F	FK	K			
									N	N	FN			
									S	S	S			
4ACP + 12S + 3P														































































































































































































































































































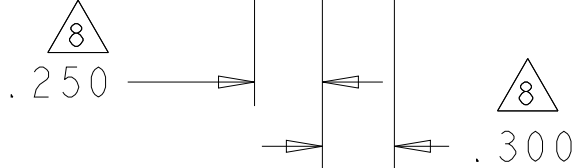




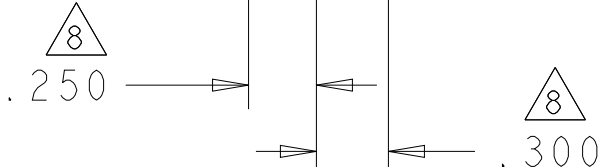






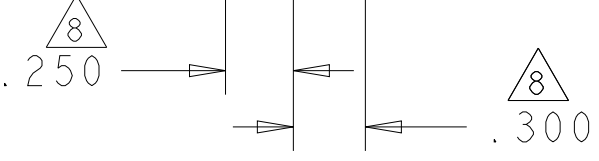


PART NUMBER	ROWS		POWER				BLANK	SIGNAL			POWER					
			P1	P2	P3	P4		1	2	3	P5	P6	P7			
3-6450830-2	D C B A						BLANK	F	J	J						
								F	F	K					K	
								N	N	N					F	N
								S	S	S						
4ACP + 12S + 3P																

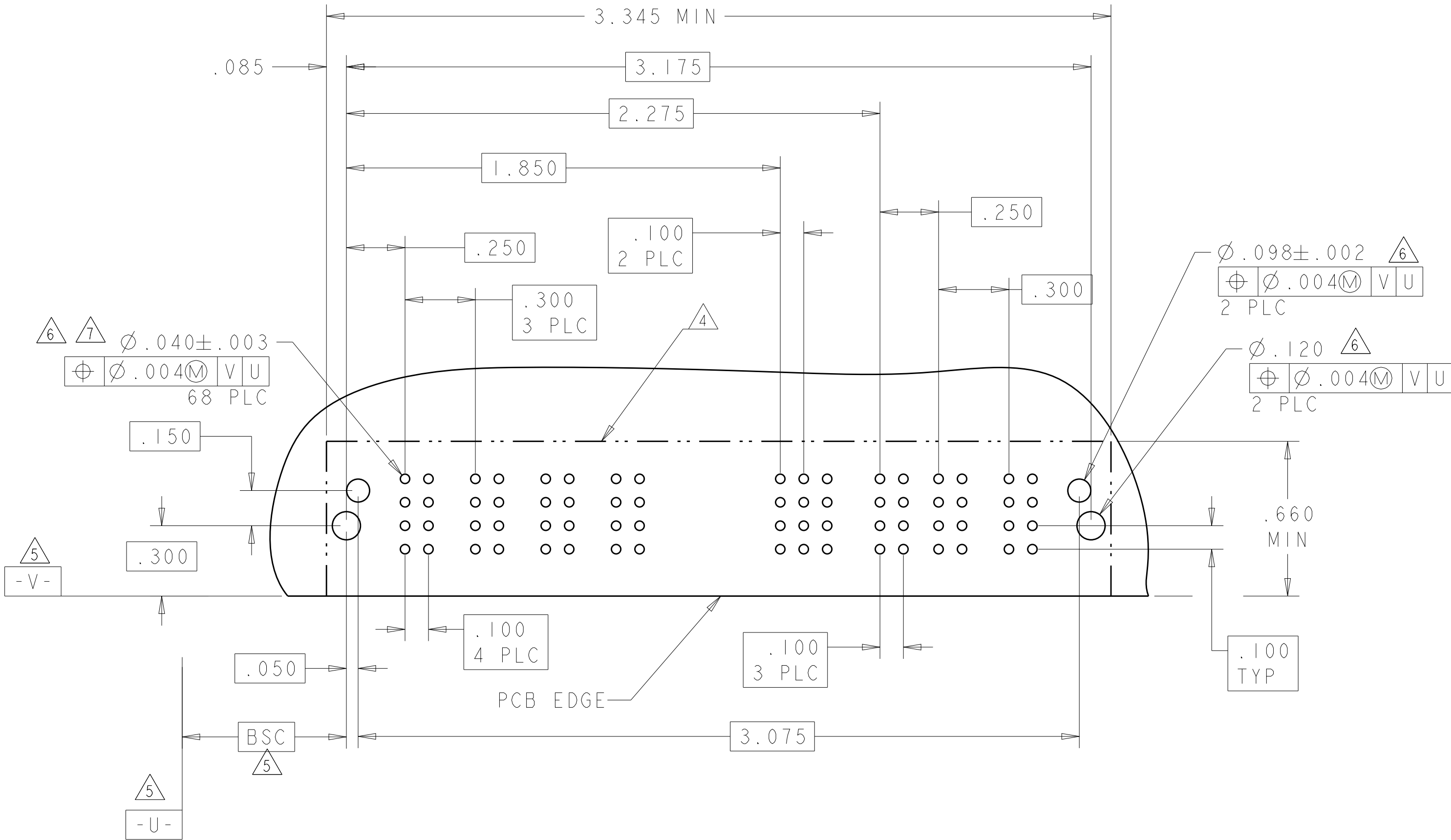


NO CONTACTS LOADED

PART NUMBER	ROWS		POWER				BLANK	SIGNAL			POWER			
			P1	P2	P3	P4		1	2	3	P5	P6	P7	
3-6450830-3	D C B A						BLANK	F	J	J				
								F	FK	K				
								N	N	FN				
								S	S	S				
4ACP + 12S + 3P														

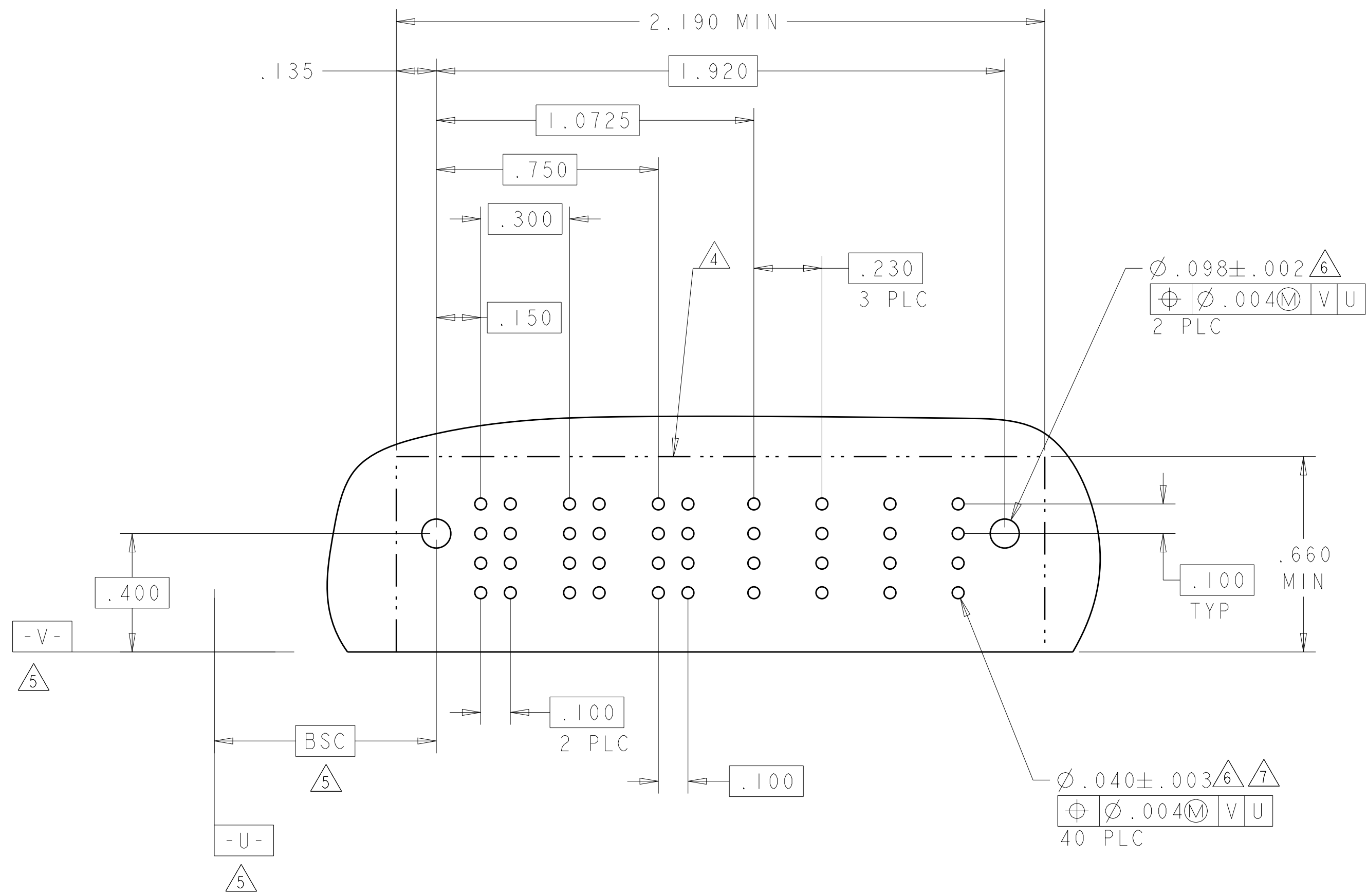
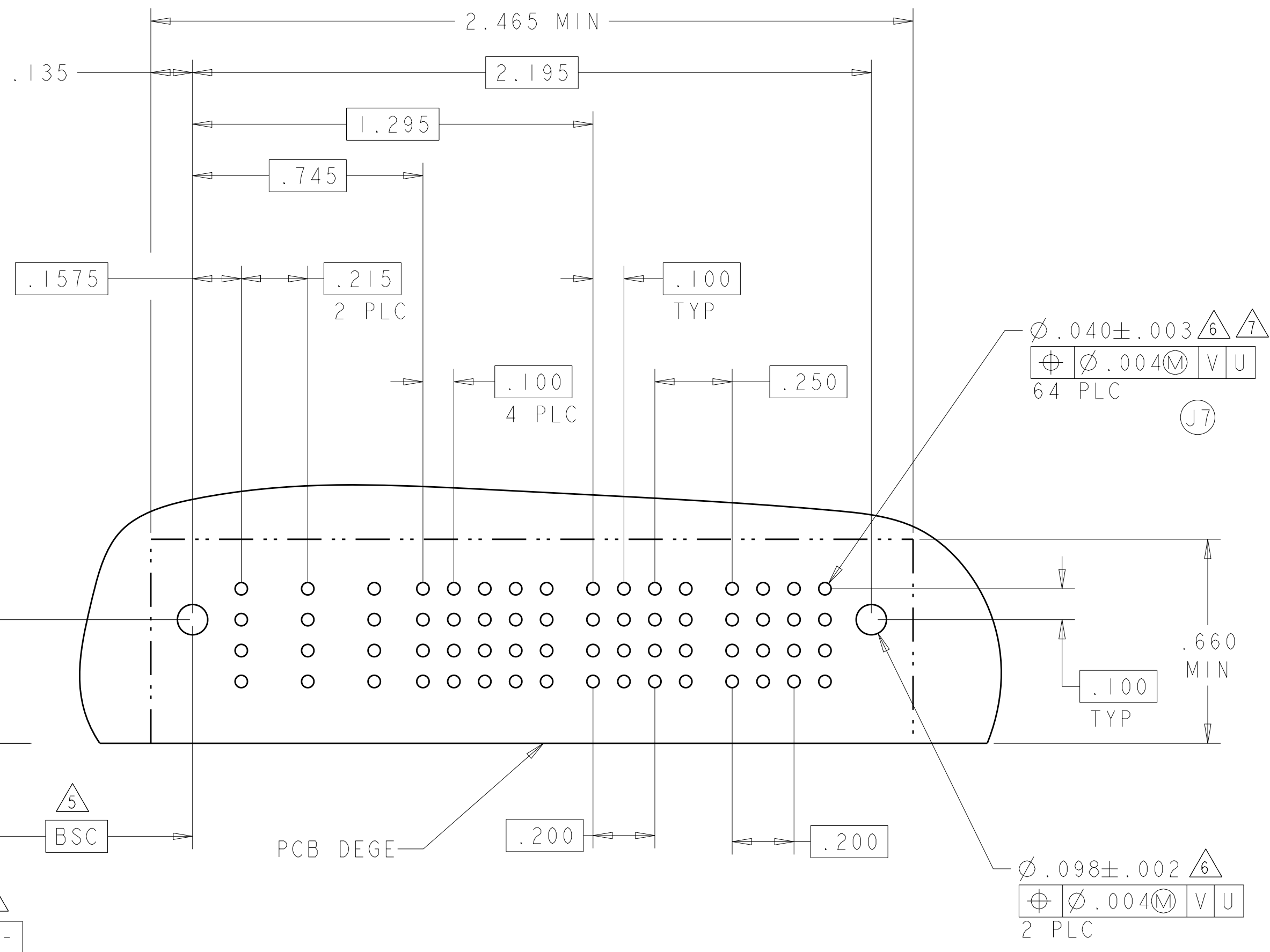


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RECOMMENDED PCB LAYOUT FOR 3-6450830-0, 3-6450830-2 AND 3-6450830-3

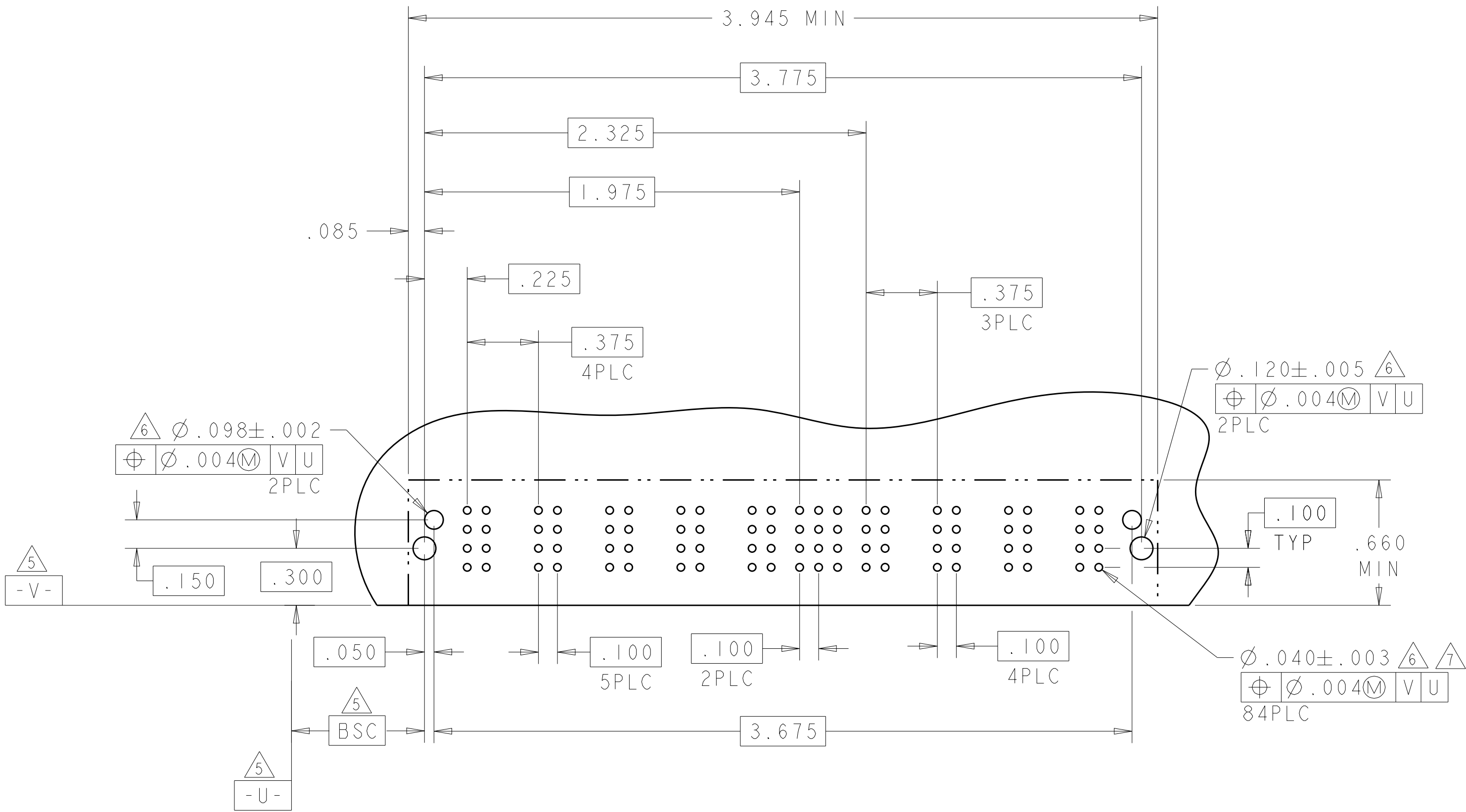
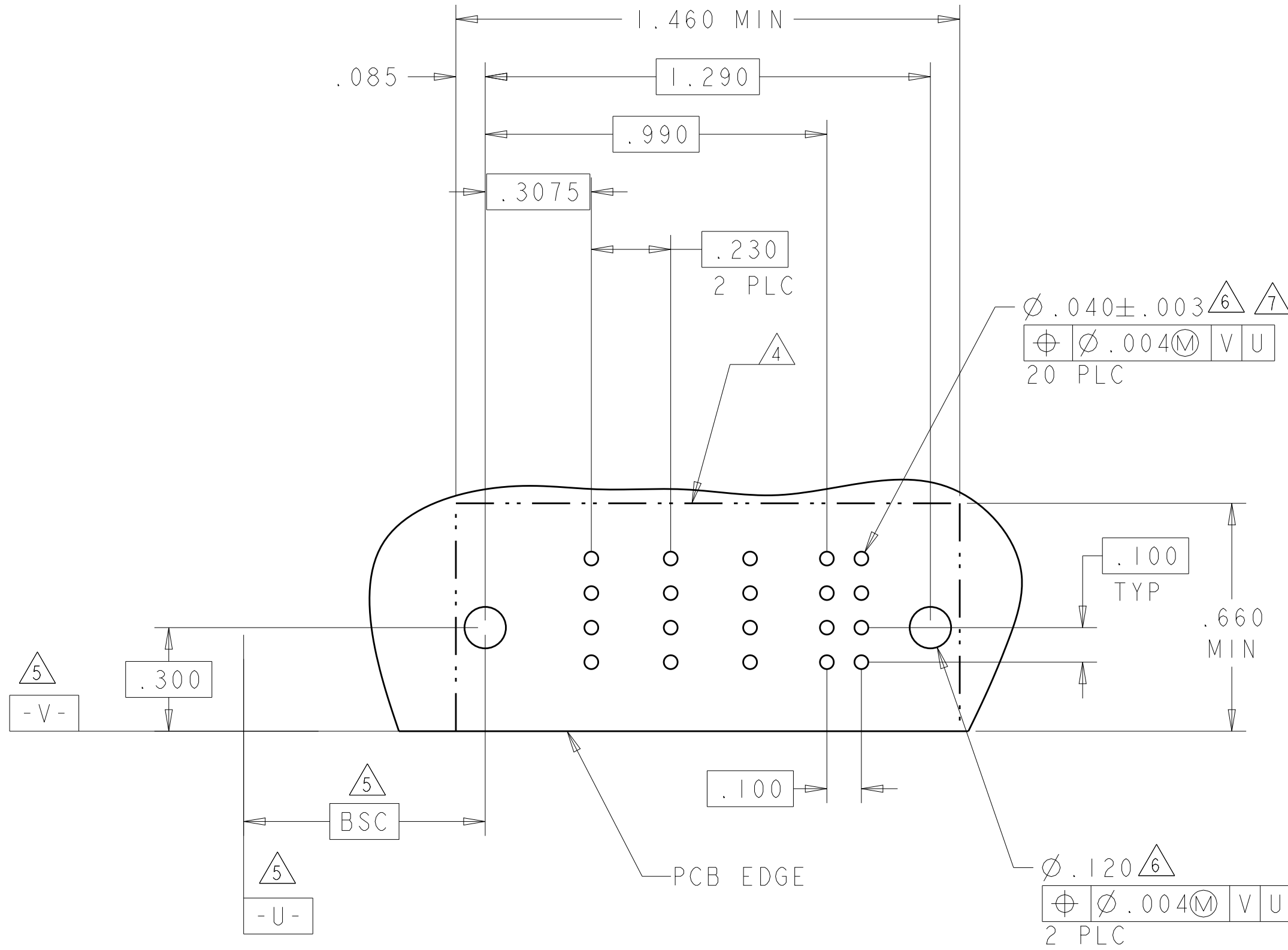
PART NUMBER	ROWS		POWER		SIGNAL		POWER				
			P1	P2	1	2	LP1	LP2	LP3	LP4	
3-6450830-6	D		TM	TM	J	J	LM	LM	LM	LM	
	C				K	K					
	B				N	N					
	A				S	S					
2ACP + 8S + 4LP											

4805 (3/11)

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

PART NUMBER	ROWS		POWER						SIGNAL		
			LP1	LP2	LP3	LP4	LP5	LP6	1	2	
3-6450830-7	D C B A										
6LP + 8S											

PART NUMBER	ROWS		POWER					SIGNAL			POWER				
			P1	P2	P3	P4	P5	1	2	3	P6	P7	P8	P9	
3-6450830-8	D C B A		TM	TM	TM	TM	TM	J	J	J	TM	TM	TM	TM	
								K	K	K					
								N	N	N					
								S	S	H					
5ACP + 12S + 4ACP															



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CHK
S. ZHAO
APVD
S. ZHAO

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-

DIMENSIONS:
INCHES

0 PLC ±.01
1 PLC ±.01
2 PLC ±.01
3 PLC ±.005
4 PLC ±.002
ANGLES ±2°
FINISH

TOLERANCES UNLESS
OTHERWISE SPECIFIED:

PRODUCT SPEC
108-2292
APPLICATION SPEC
114-13251
WEIGHT
CUSTOMER DRAWING

NAME
RIGHT ANGLE WITH SHORT GUIDES
AND LP CONTACTS ASSEMBLY
MULTI-BEAM XLE

SIZE
A100779

CAGE CODE
C=6450830

DRAWING NO
19

REV
S2

TE Connectivity

SCALE
4:1

SHEET
19

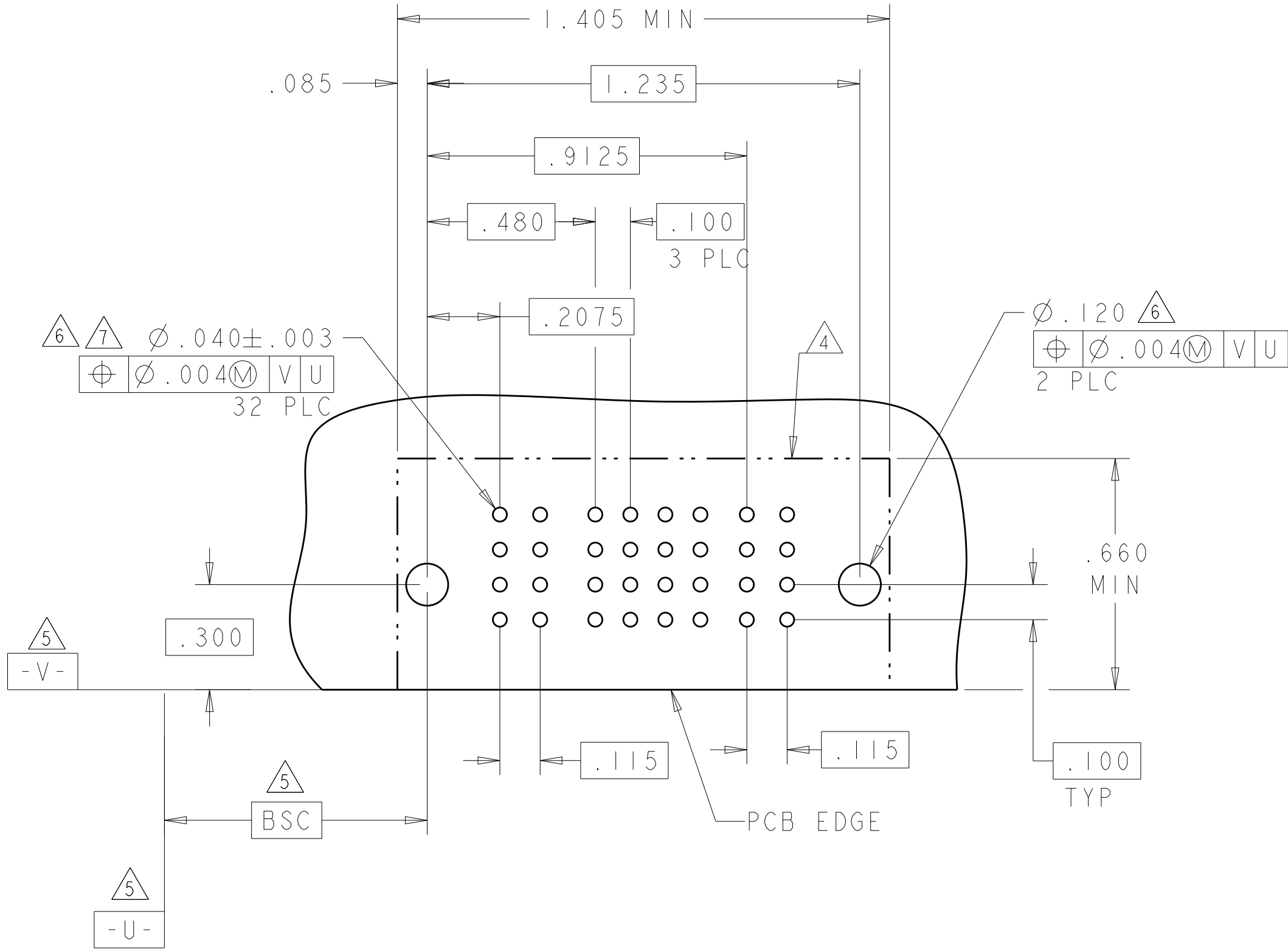
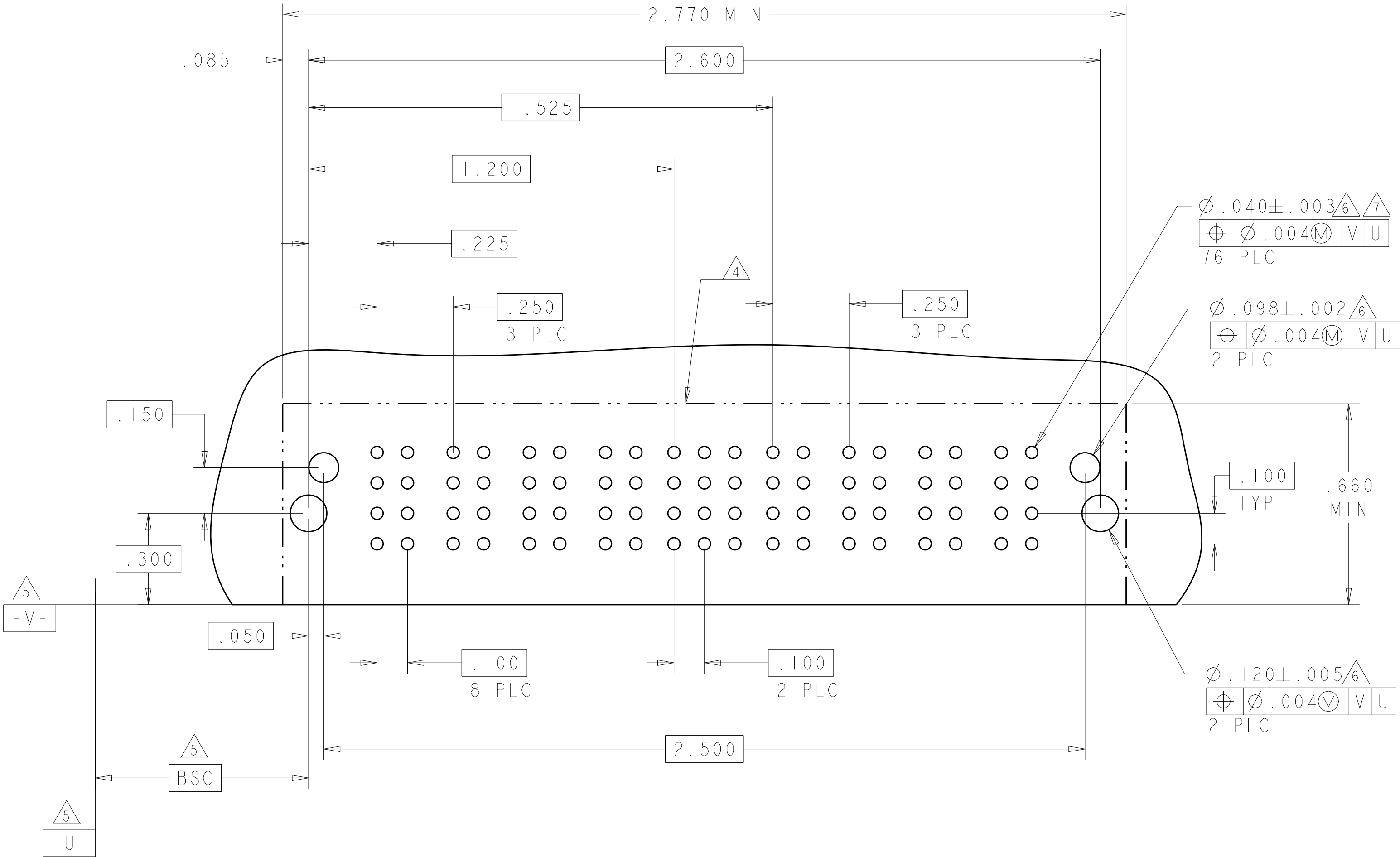
OF
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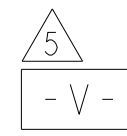
REV
S2

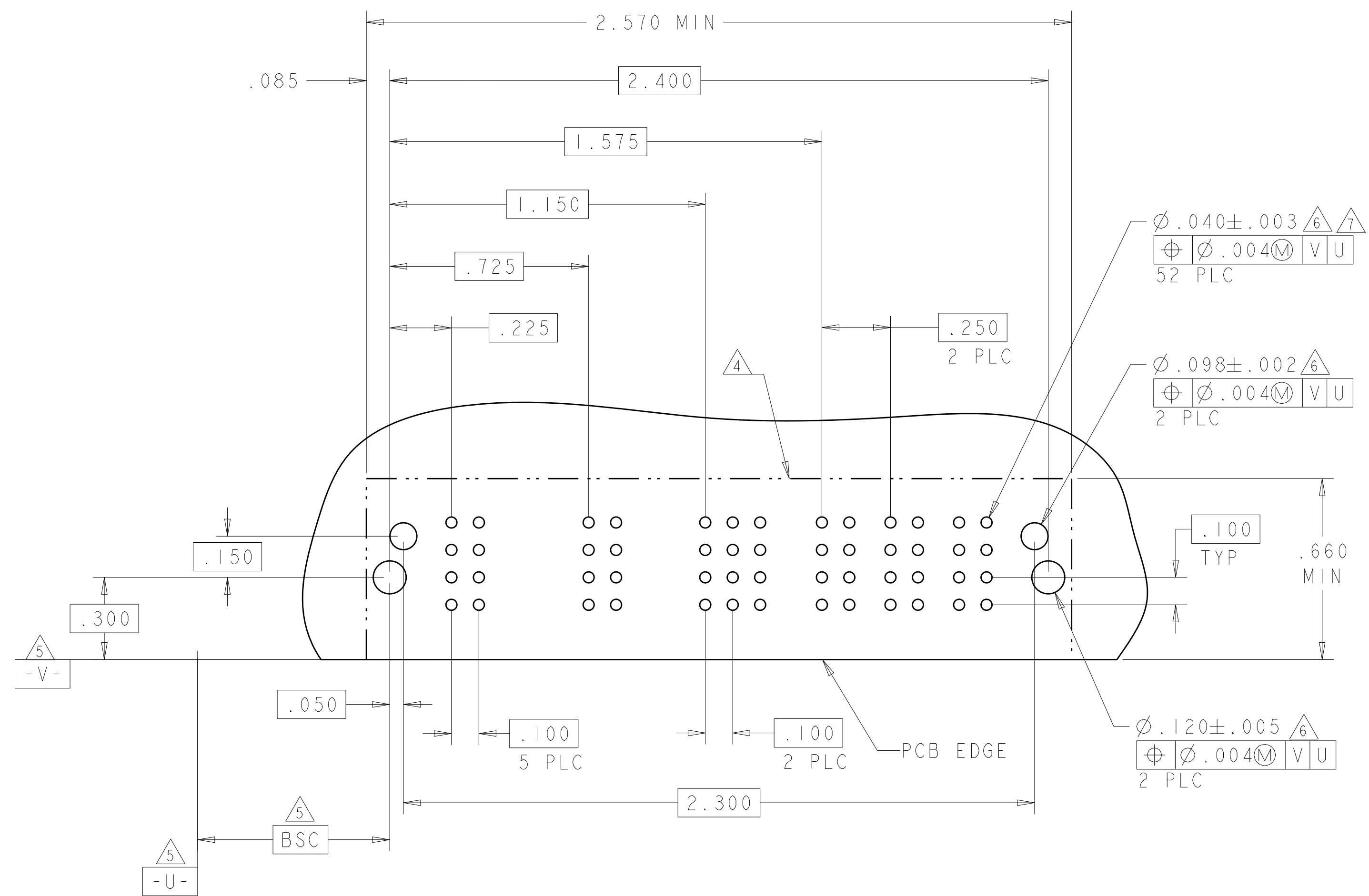
LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-		SEE SHEET 1	-	-	-

PART NUMBER	ROWS		POWER				SIGNAL			POWER				
			P1	P2	P3	P4	1	2	3	P5	P6	P7	P8	
4-6450830-2	D		TM	TM	TM	TM	J	J	J	TM	TM	TM	TM	
	C						K	K	K					
	B						N	N	N					
	A	HD					S	S	S					HD
4P + 12S + 4P														

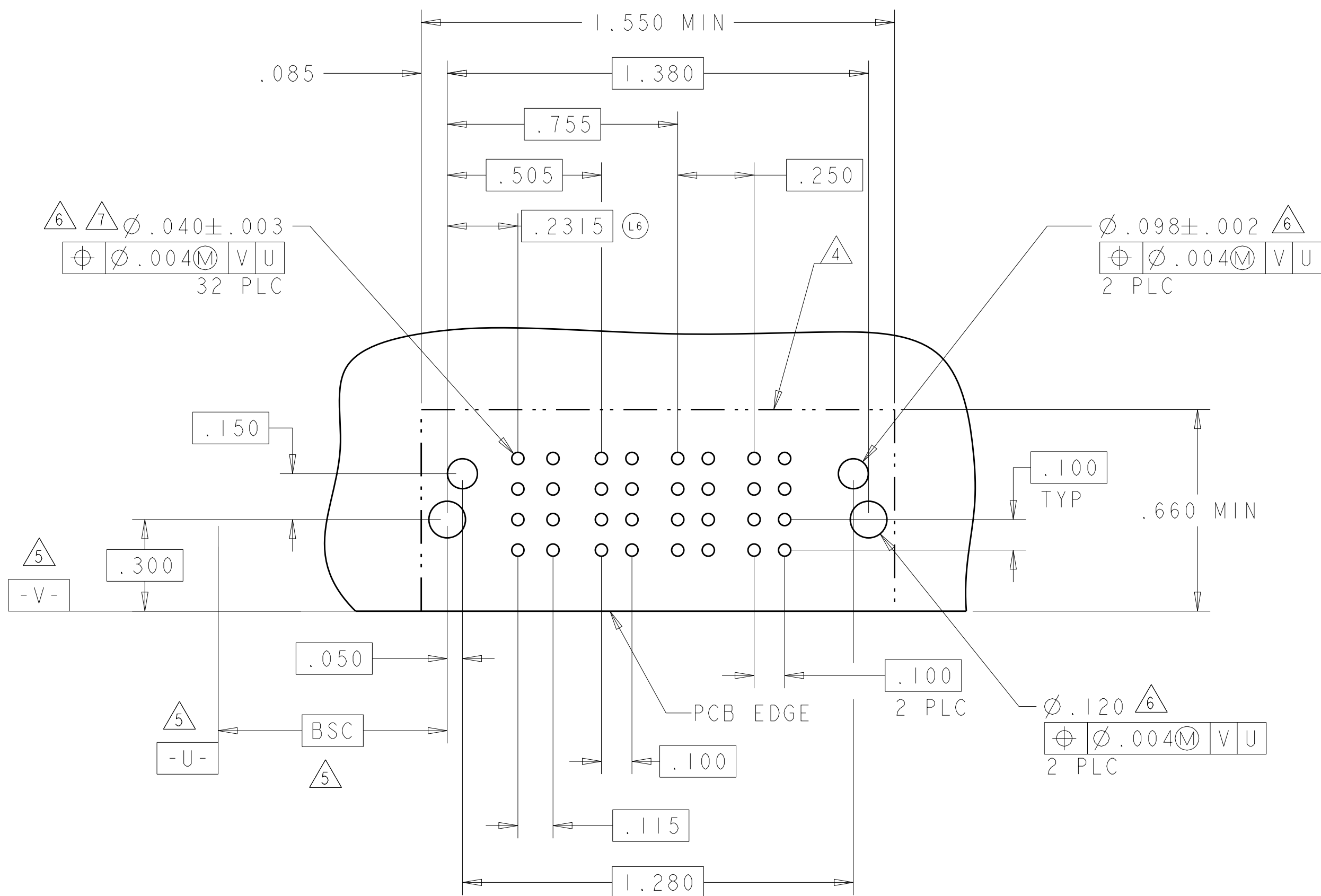
PART NUMBER	ROWS		LOW POWER		SIGNAL				LOW POWER		
			LPI	LP2	I	2	3	4	LP3	LP4	
6-6450830-0	D		LM	LM	J	J	J	E	LM	LM	
	C				K	K	K	K			
	B				N	N	N	N			
	A				S	S	S	S			
2LP + 16S + 2LP											



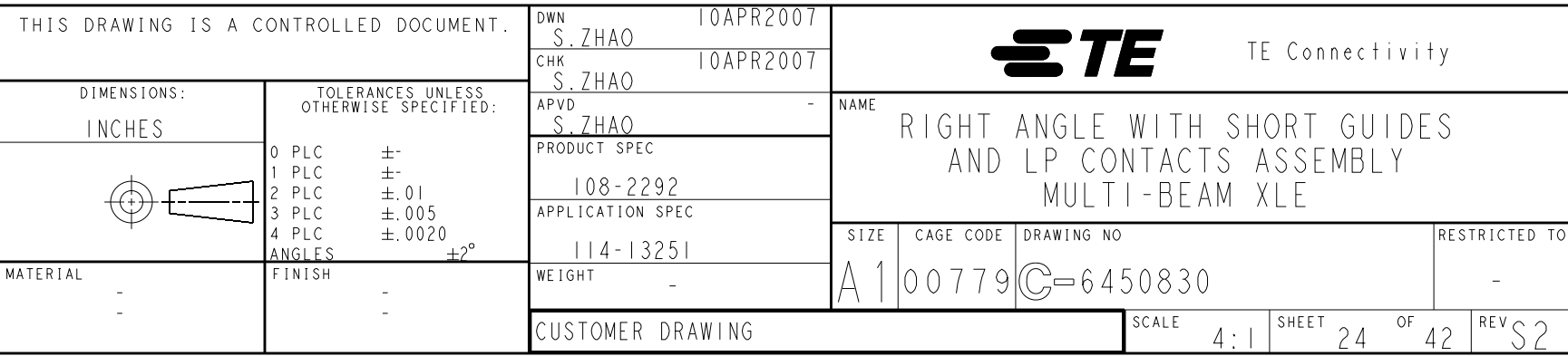
4805 (3/11)

[illegible]4805 (3/11)

PART NUMBER	ROWS		POWER		SIGNAL		POWER		
			P1	P2	1	2	P3	P4	
4-6450830-7	D		LM	LM	F	J	TM	TM	
	C				K	F			
	B				N	N			
	A				S	S			
2LP + 8S + 2P			HD						HD

4805 (3/11)

—NO CONTACT LOADED



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

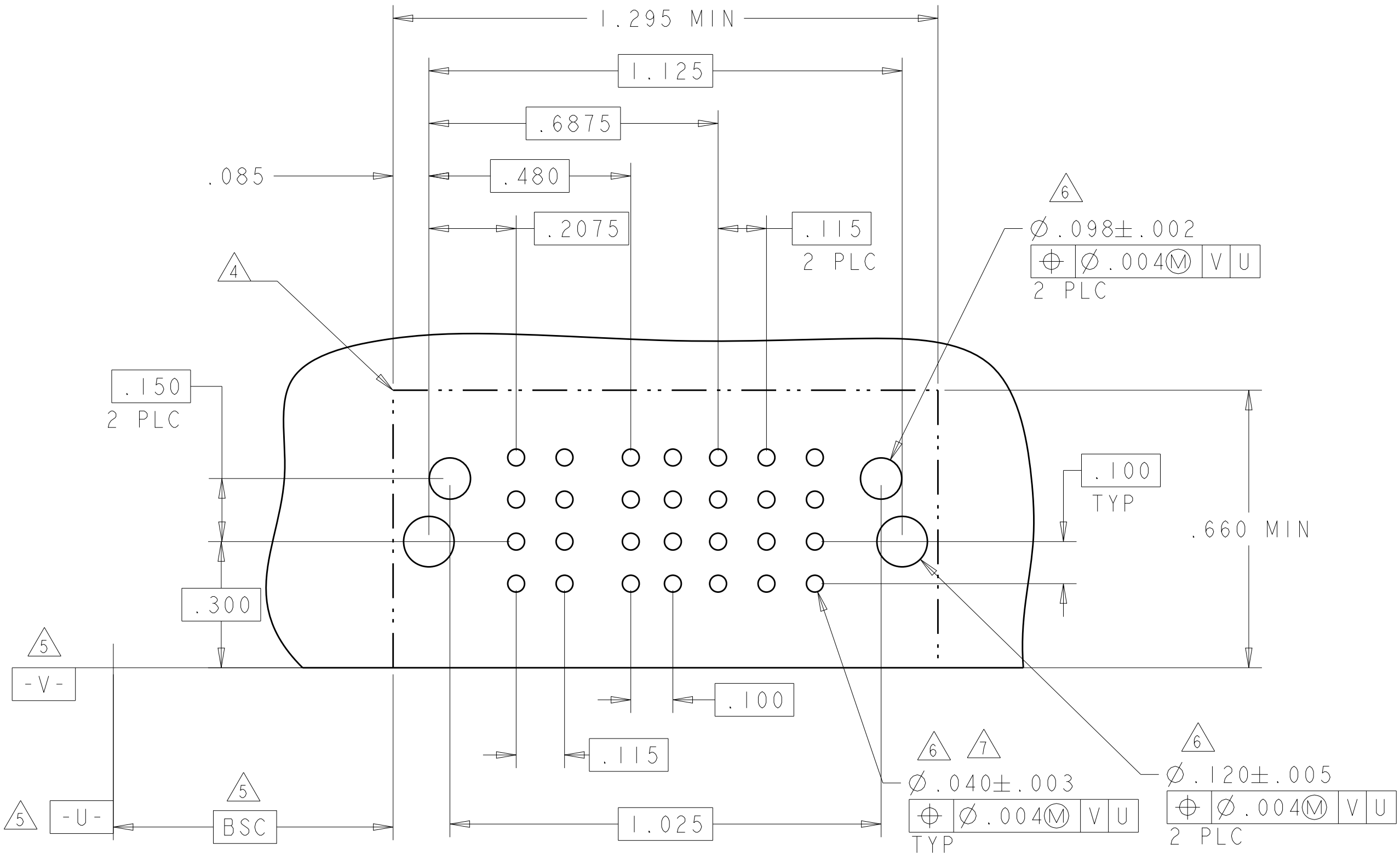
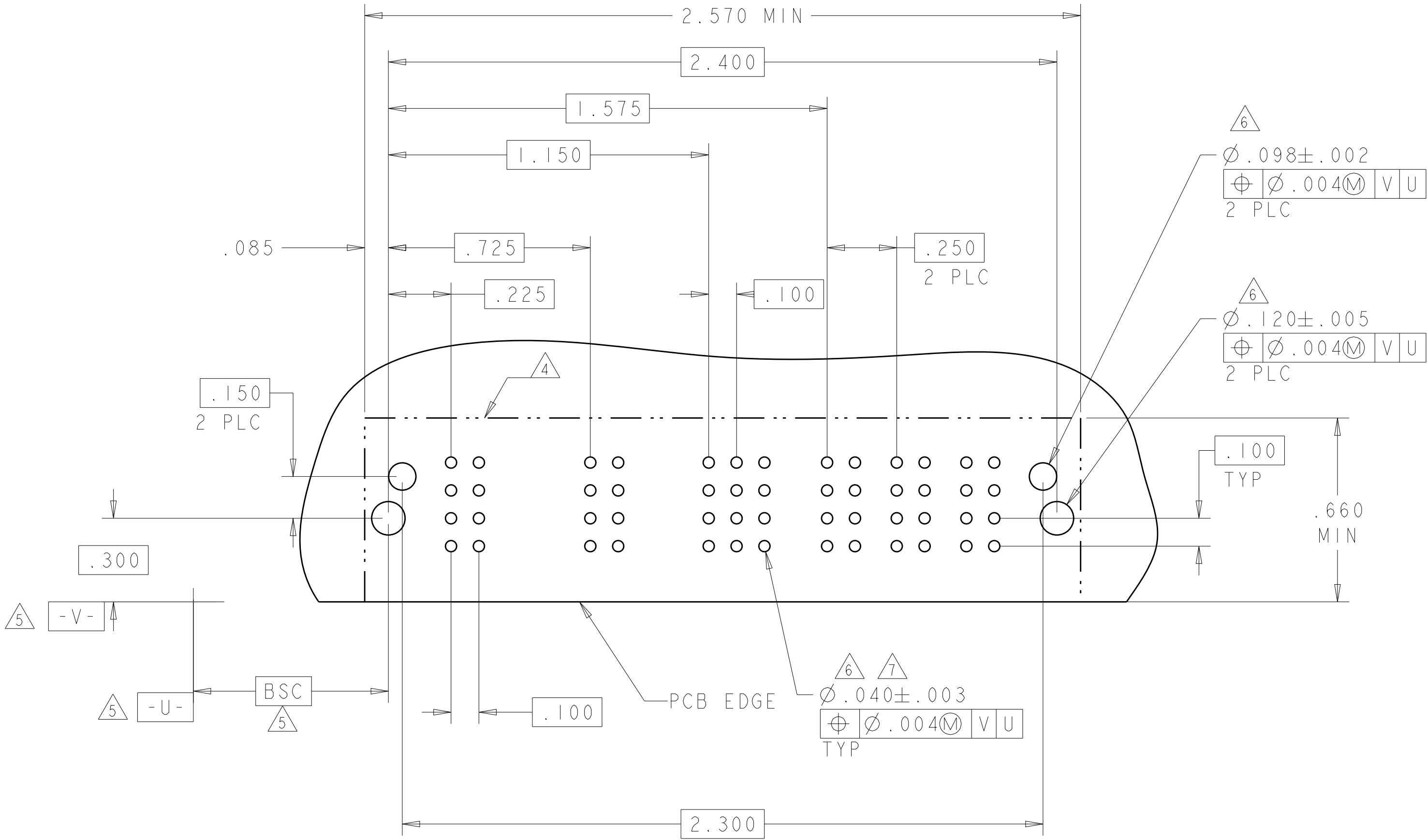
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PART NUMBER	ROWS		POWER			SIGNAL						POWER			
			P1	P2	P3	1	2	3	4	5	6	P4	P5	P6	
4-6450830-9	D		TM	TM					J	J		TM	TM	TM	
	C								K	K					
	B								G	G					
	A								S	S					
3P + 24S + 3P															

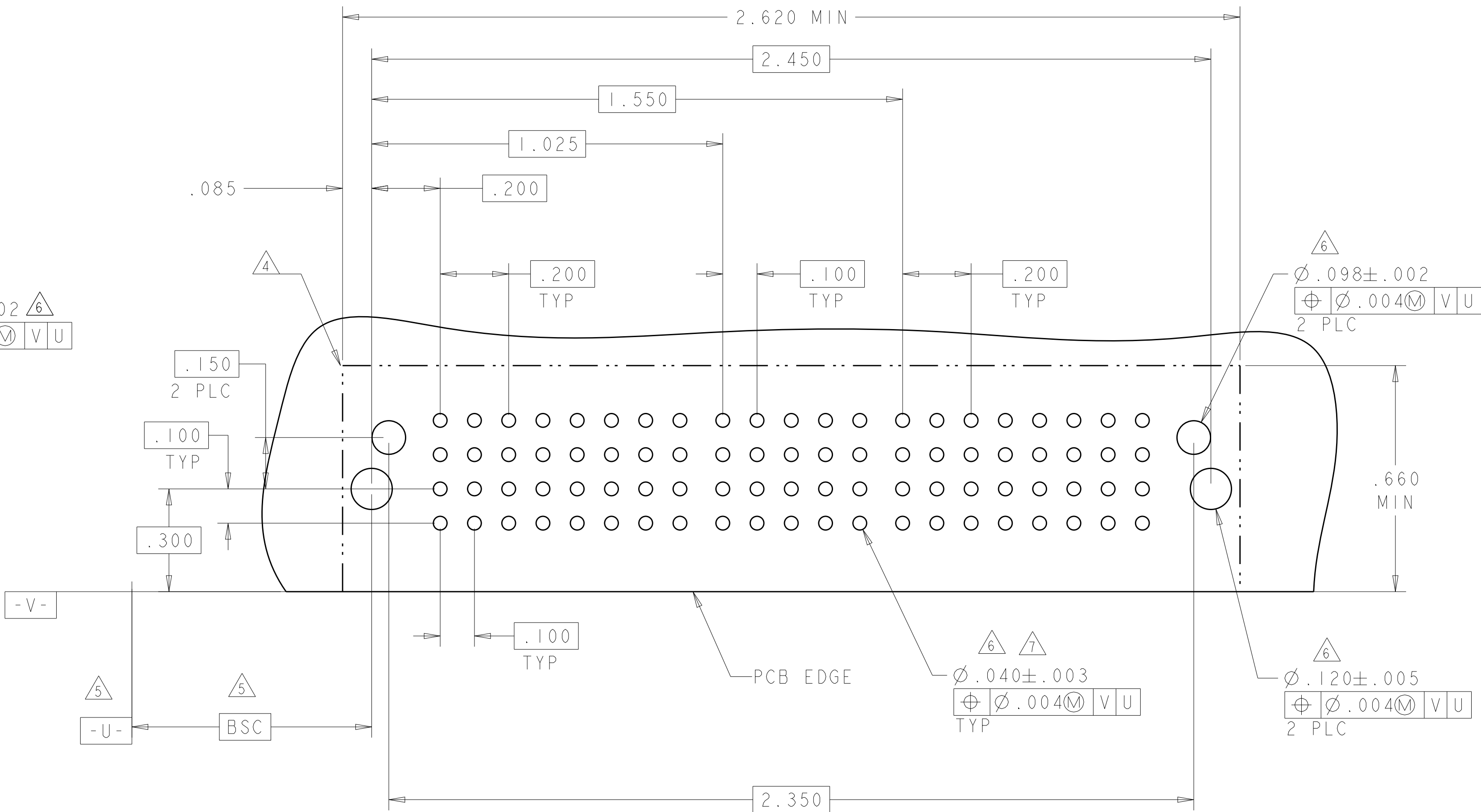
NO CONTACT LOADED

M

PART NUMBER	ROWS		POWER		SIGNAL		POWER			
			P1	P2	1	2	P3	P4	P5	
5-6450830-0	D		LM	LM	J	J	LMF	LMF	LMF	
	C				K	K				
	B				N	N				
	A				S	S				
2LP + 8S + 3LP										

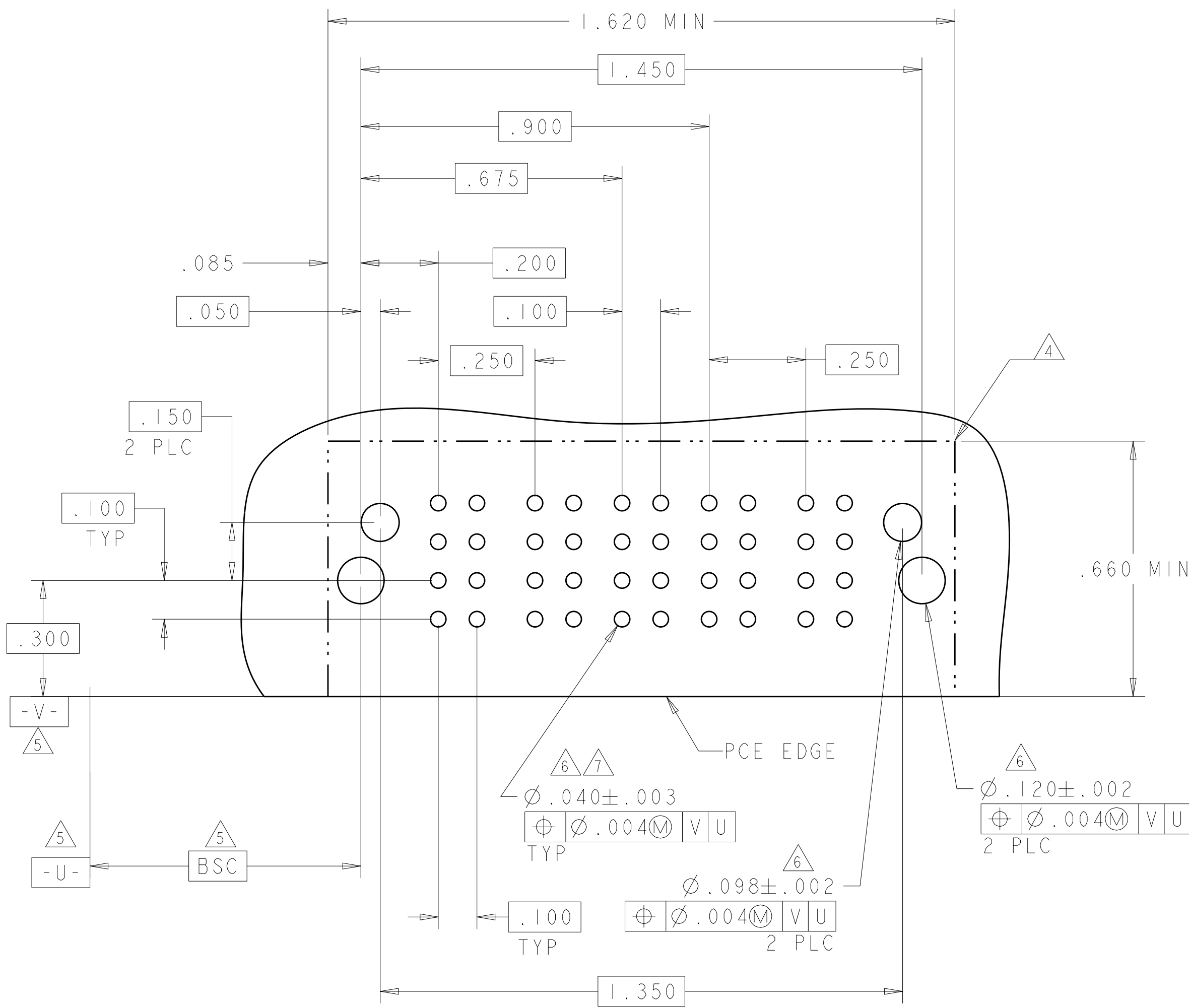


PART NUMBER	ROWS		POWER				SIGNAL					POWER				
			P1	P2	P3	P4	1	2	3	4	5	P5	P6	P7	P8	
5-6450830-2	D		TM	TM	TM	TM	J	J	J	J	J	TM	TM	TM	TM	
	K						K	K	K	K						
	N						N	N	N	N						
	H						S	S	S	S						
	A	HD														HD
4P + 20S + 4P																

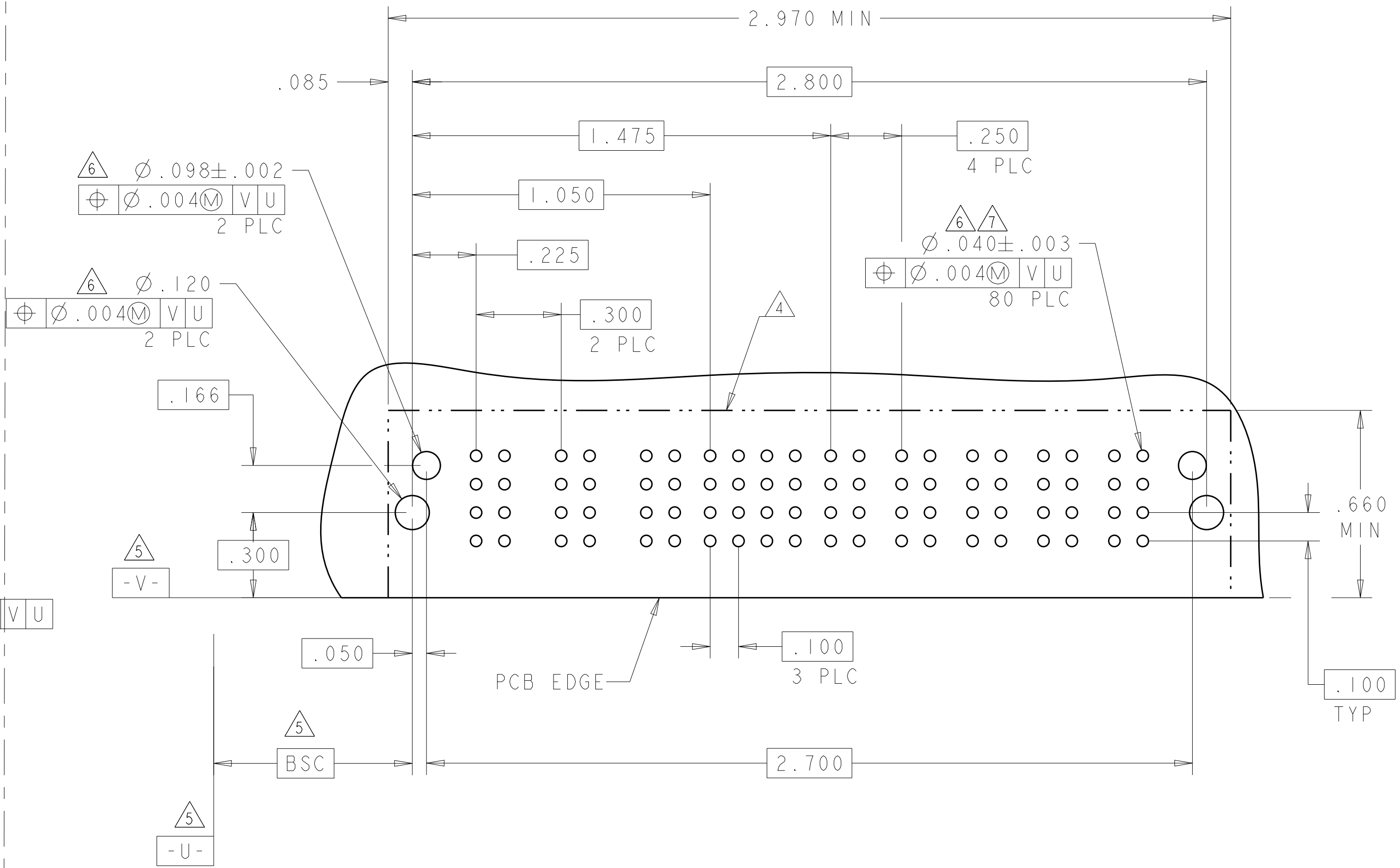
4805 (3/11)

PART NUMBER	ROWS		POWER		SIGNAL		POWER		
			P1	P2	I	2	P4	P5	
5-6450830-4	D		TM	TM	J	J	TM	TM	
	C				K	K			
	B				N	N			
	A	HD			S	S			

2P + 8S + 2P

4805 (3/11)

PART NUMBER	ROWS	POWER			SIGNAL				POWER						
		P1	P2	P3	1	2	3	4	P4	P5	P6	P7	P8		
5-6450830-6	C		TM	TM	TM	J	J	J	J	TM	TM	TM	TM	TM	
	K					K	K	K							
	N					N	N	N							
	S					S	S	S							
	A	HD													HD
3ACP + 16S + 5P															

4805 (3/11)

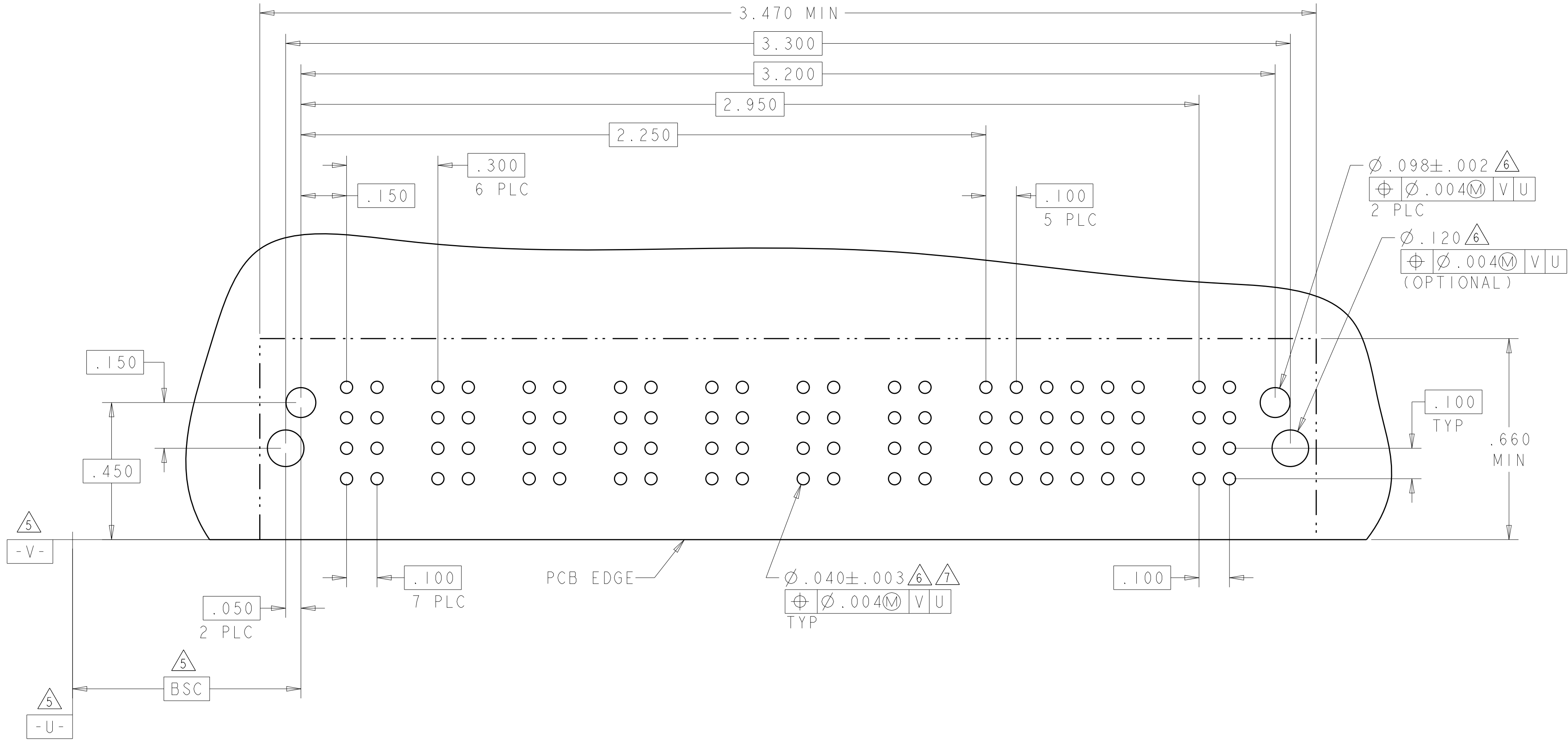
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 .250 3 PLC
 .225
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 .150
 .300
 .050 2 PLC
 .100 4 PLC
 .100 TYP
 2.800
 .660 MIN
 .098 ± .002 6
 .004 (M) V U 2 PLC
 .120 6
 .004 (M) V U (OPTIONAL)
 PCB EDGE
 BSC
 -V-
 -U-

4805 (3/11)

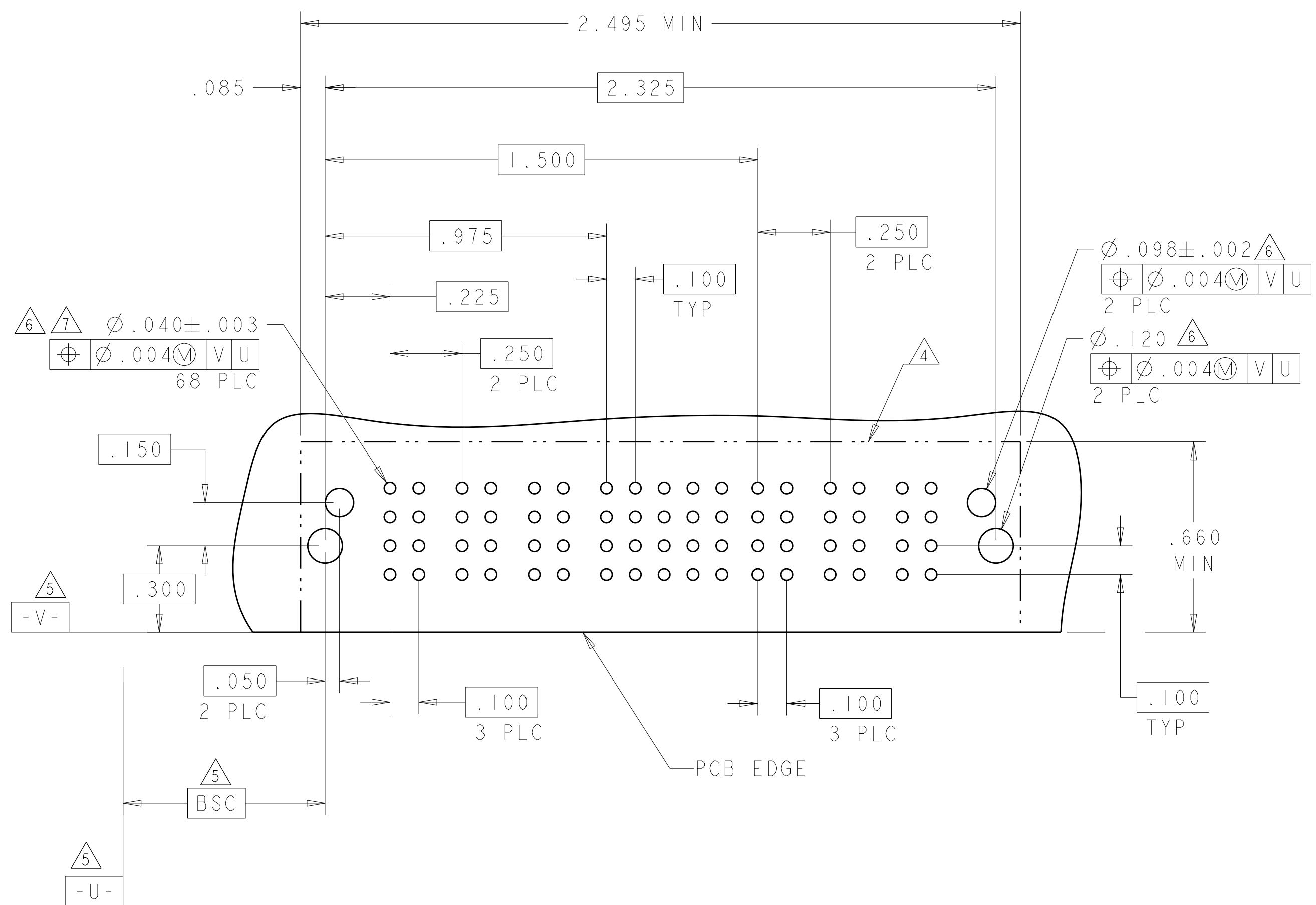
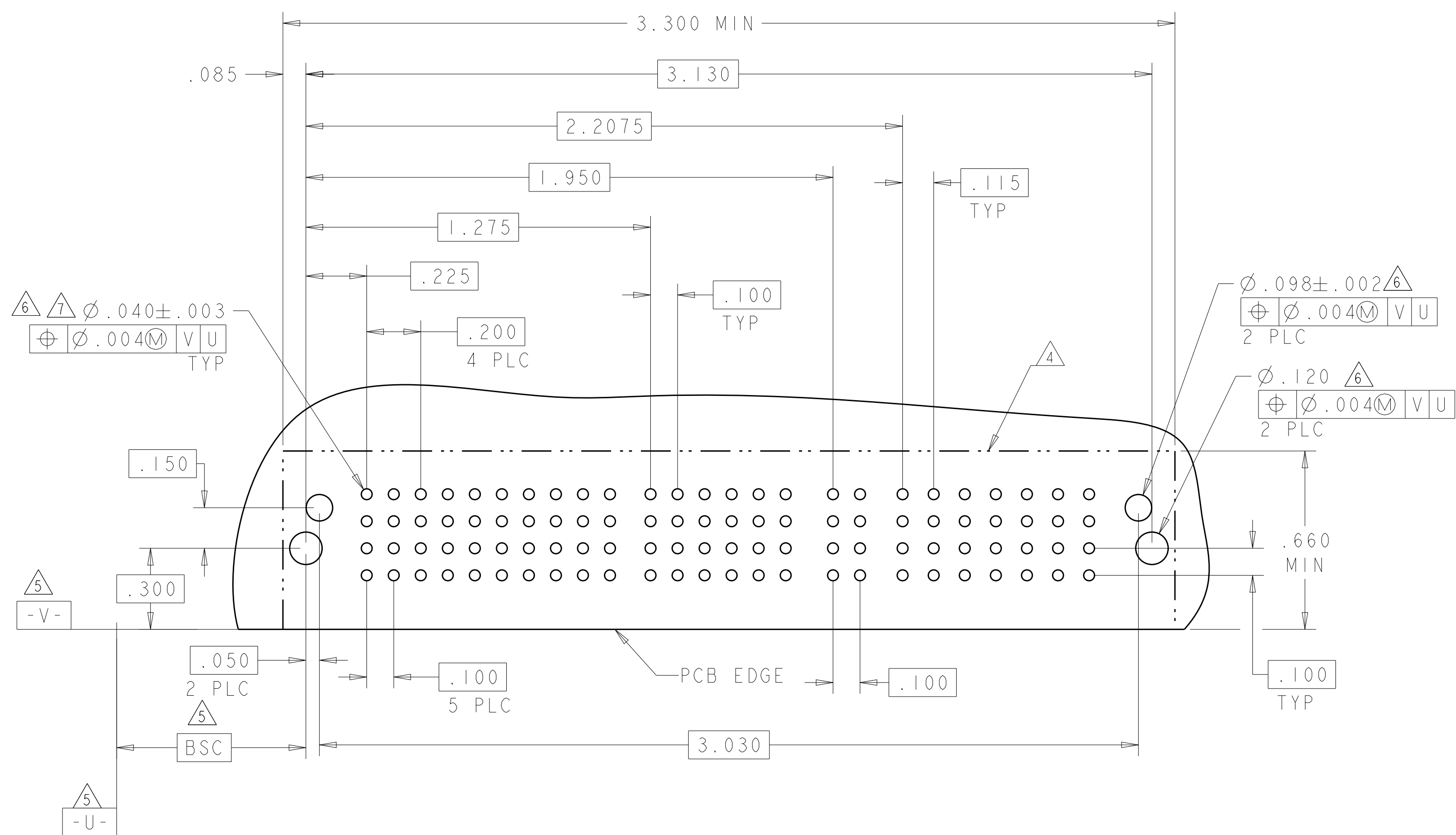
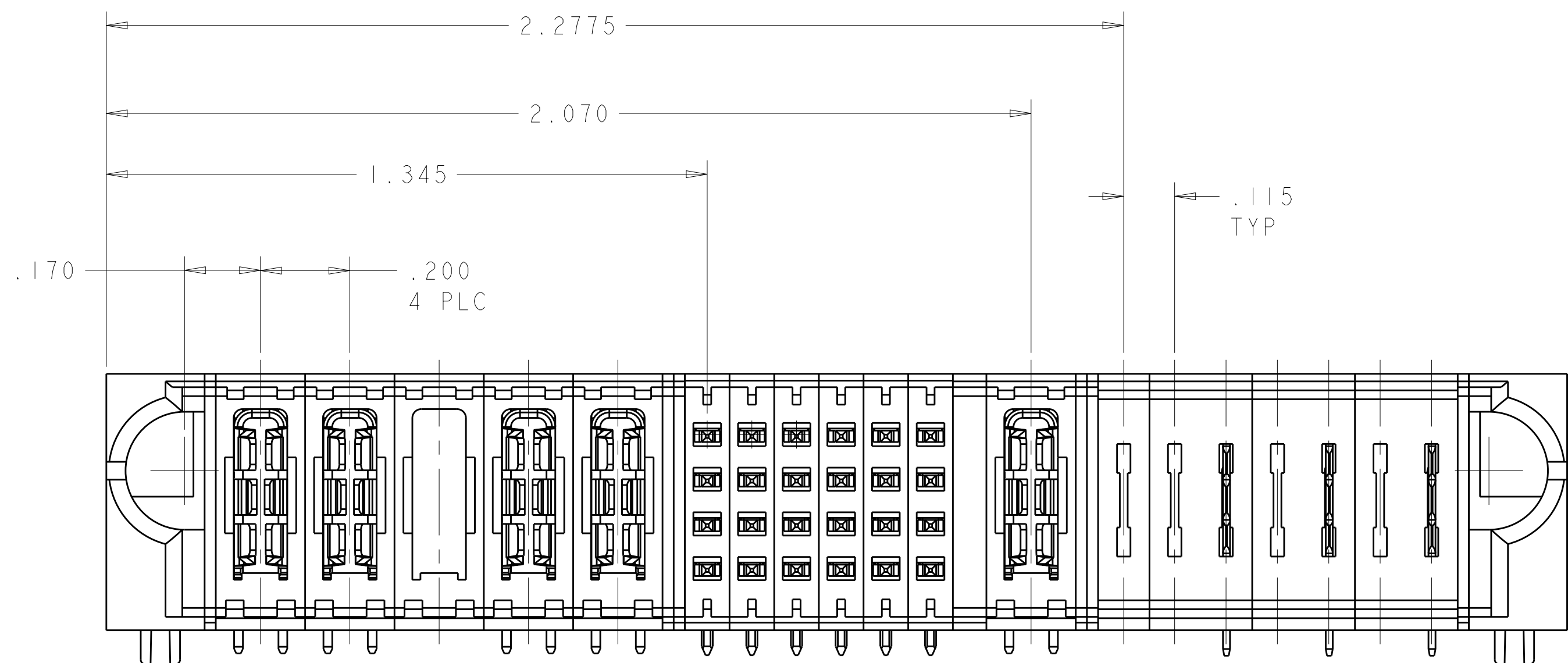
LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-		SEE SHEET 1	-	-	-

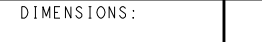
N6

PART NUMBER	ROWS		POWER							SIGNAL							
			P1	P2	P3	P4	P5	P6	P7	1	2	3	4	5	6		
5-6450830-8	D		TM	TM	TM	TM	TM	TM	TM	FJ	FJ	FJ	FJ	FJ	FJ	TM	
	C									K	K	K	K	K	K		
	B									N	N	N	N	N	N		
	A	HD								S	S	S	S	S	S		HD
7ACP + 24S + 1P																	



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN S.ZHAO 10APR2007	TE Connectivity	
		CHK S.ZHAO 10APR2007		
DIMENSIONS: INCHES		APVD S.ZHAO -	NAME RIGHT ANGLE WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE	
		PRODUCT SPEC 108-2292		
		APPLICATION SPEC 114-13251	SIZE A100779C=6450830	
MATERIAL -		WEIGHT -	RESTRICTED TO -	
		CUSTOMER DRAWING	SCALE 4:1 SHEET 30 OF 42 REV S2	

[illegible]

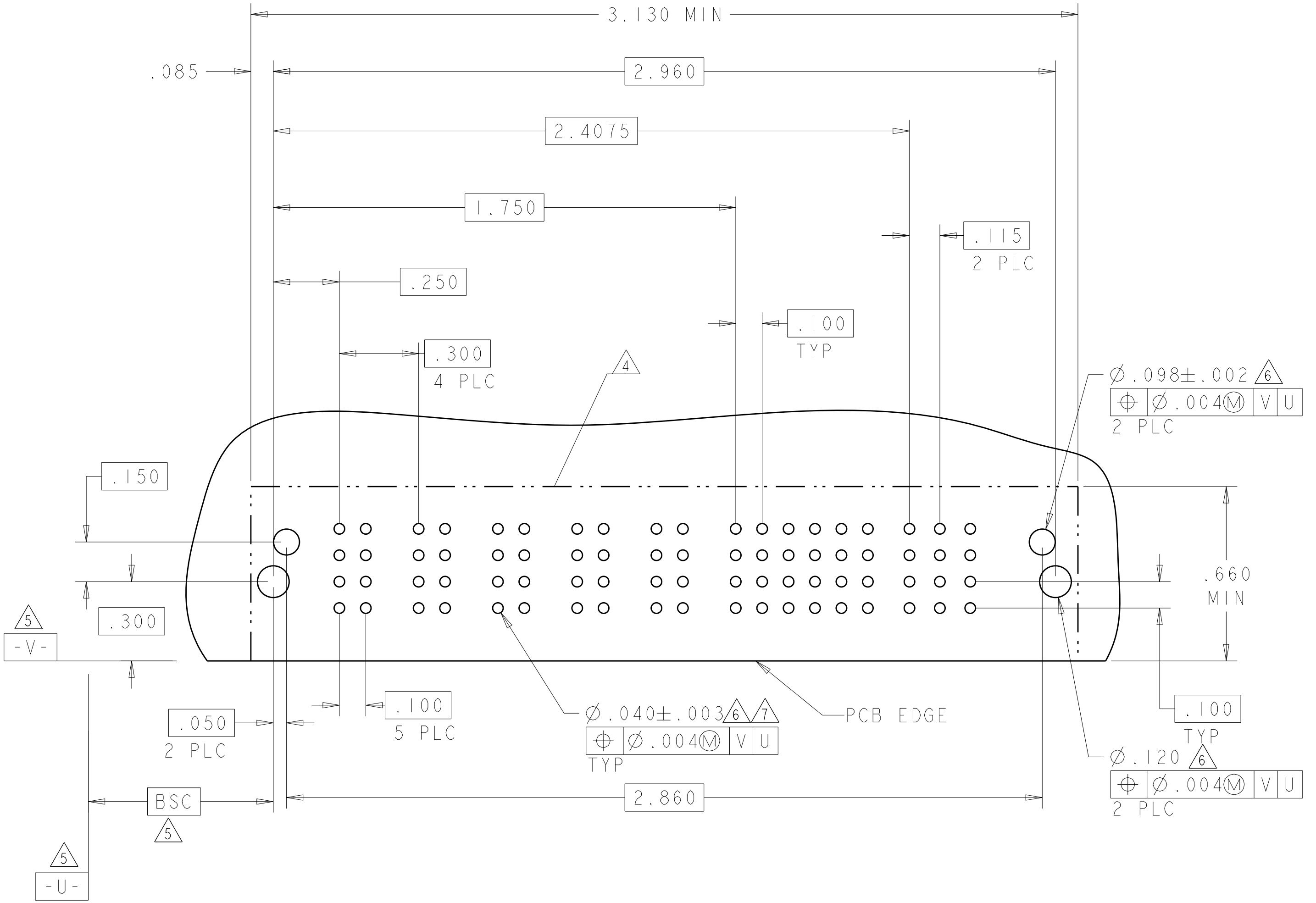
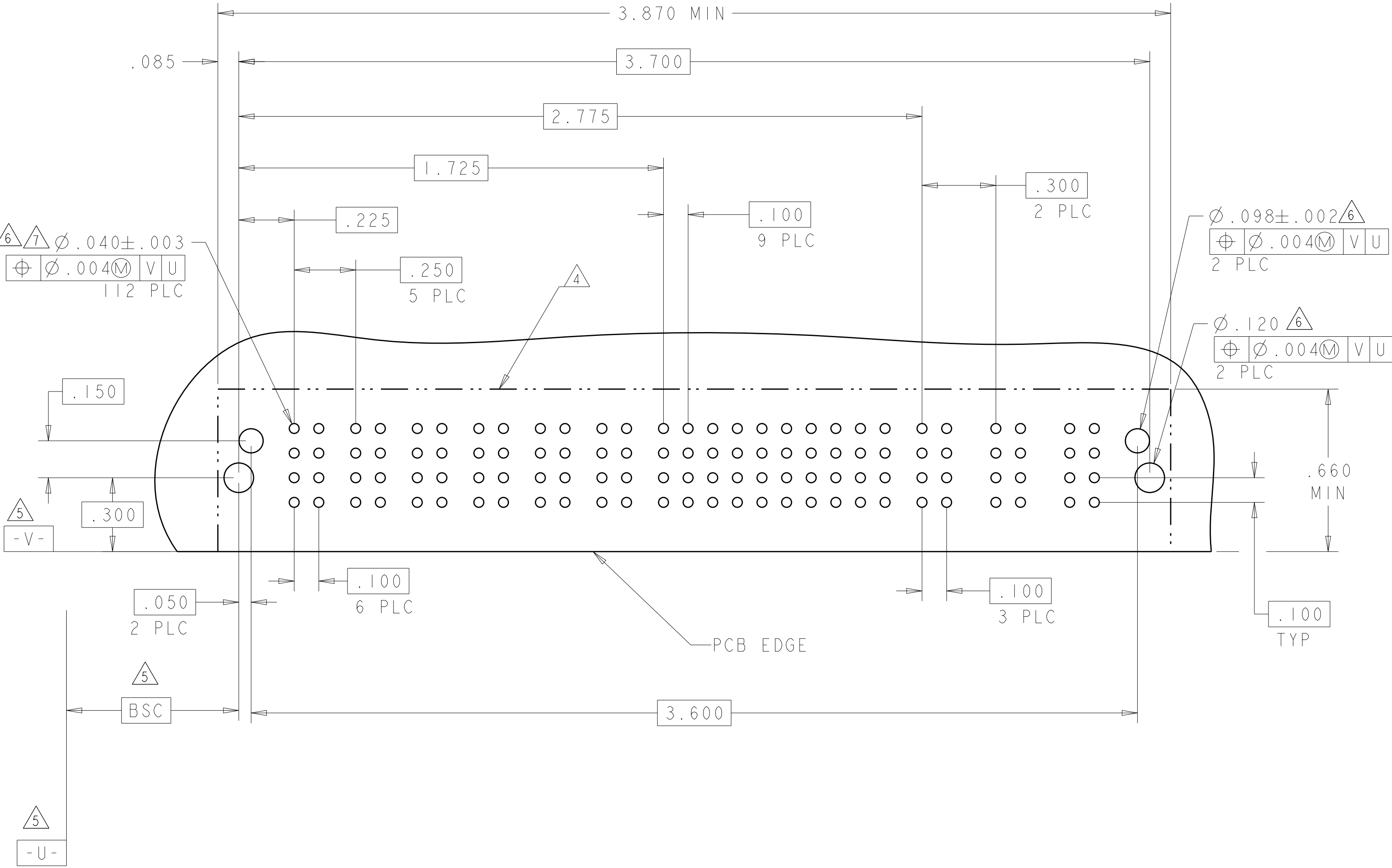
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN S. ZHAO 10APR2007 CHG S. ZHAO 10APR2007 APP'D S. ZHAO		 TE Connectivity	
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME RIGHT ANGLE WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE	
		0.010 0.010 0.005 0.020 0.010		PRODUCT SPEC 108-2292 APPLICATION SPEC 114-13251	
MATERIAL -		FINISH -		SIZE CAGE CODE DRAWING NO A100779 C6450830	
WEIGHT -		CUSTOMER DRAWING -		RESTRICTED TO -	
				SCALE 4:1 SHEET 31 OF 42 REV S	

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

PART NUMBER	ROWS		POWER						SIGNAL						POWER			
			P1	P2	P3	P4	P5	P6	1	2	3	4	5	6	P7	P8	P9	
6-6450830-3	D		TM	TM	TM	TM	TM	TM	J	J	J	J	J	J	TM	TM	TM	
	K								K	K	K	K	K					
	N								N	N	N	N	N					
	S								S	S	S	S	S					
6P + 40S + 3ACP																		HD

PART NUMBER	ROWS		POWER					SIGNAL						POWER				
			P1	P2	P3	P4	P5	I	2	3	4	5	6	LP1	LP2	LP3	LP4	
6-6450830-6	D		TM	TM	TM	TM	TM	J	J	J	J	J	J	LMF	LM	LM		
	K							K	K	K	K	K						
	N							N	N	N	N	N						
	S							S	S	S	S	S						
5ACP + 24S + 4LP			HD															HD

NO CONTACTS LOADED



[illegible]4805 (3/11)

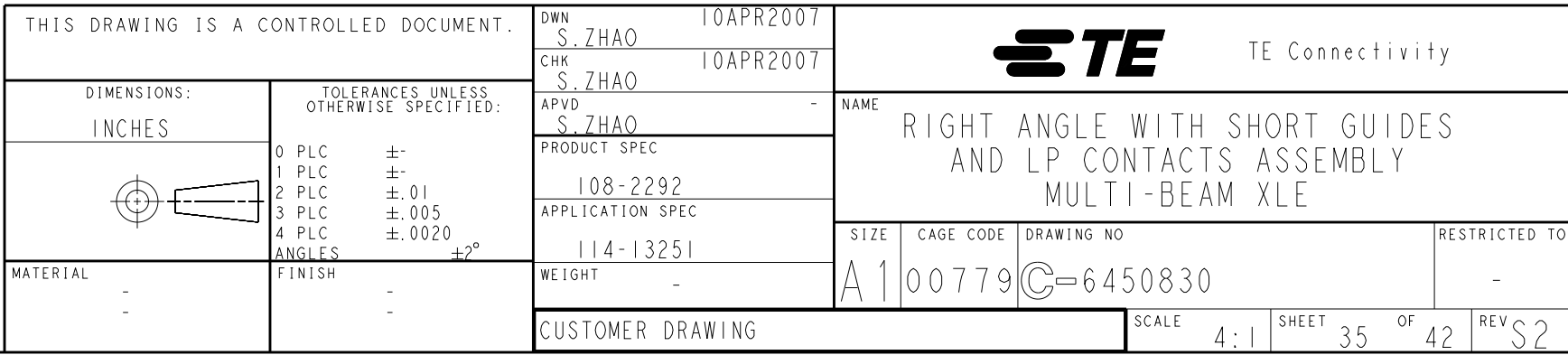
PART NUMBER	ROWS		LOW POWER						SIGNAL																								LOW POWER						
			LP1	LP2	LP3	LP4	LP5	LP6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20	21	22	23	24	LP7	LP8	LP9	LP10				
6-6450830-9	D		LMF	LM	LM	LM	LMF	LM	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J				
	K								K	K	K	K	K	K	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
	A	HD							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
6LP + 96S + 4LP																																							

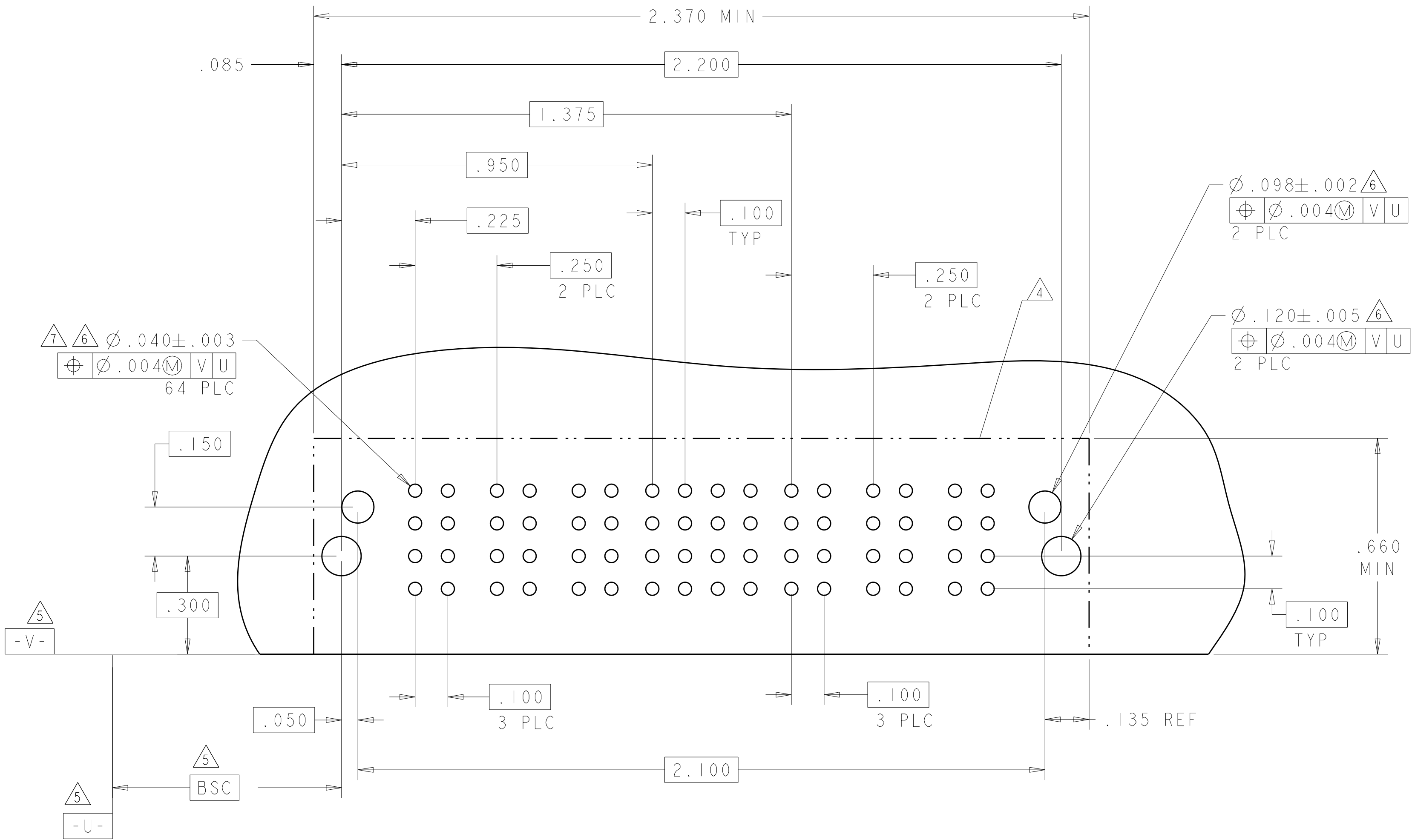
The top view drawing shows a rectangular PCB assembly with rounded corners. Key features include:

- Dimensions and Tolerances:**
 - Overall width: 4.120 MIN
 - Distance from left edge to first vertical feature line: $.085$
 - Distance between first two vertical feature lines: $.940$
 - Distance between second and third vertical feature lines: $.100 \text{ TYP}$
 - Distance between fourth and fifth vertical feature lines: $.2075$
 - Distance between sixth and seventh vertical feature lines: $.115 \text{ 5 PLC}$
 - Distance between eighth and ninth vertical feature lines: $.115 \text{ 3 PLC}$
 - Distance from right edge to last vertical feature line: $.115$
 - Distance from left edge to centerline: 3.950
 - Distance from centerline to right edge: 3.3975
 - Distance from left edge to BSC (Basic Size Center) point: $.150$
 - Distance from BSC point to centerline: $.300$
 - Distance from centerline to right edge: $.660 \text{ MIN}$
 - Distance from right edge to last vertical feature line: $.100 \text{ TYP}$
 - Distance from last vertical feature line to centerline: $.050 \text{ 2 PLC}$
 - Distance from centerline to right edge: 3.850
- Features and Callouts:**
 - A series of small circles representing holes or vias, arranged in a grid.
 - A callout $\phi .040 \pm .003 \begin{matrix} \triangle 6 \\ \triangle 7 \end{matrix}$ points to one of the holes.
 - A callout $\phi .098 \pm .002 \begin{matrix} \triangle 6 \\ \oplus \end{matrix}$ points to a larger hole.
 - A callout $\phi .120 \begin{matrix} \triangle 6 \\ \oplus \end{matrix}$ points to another larger hole.
 - A callout "PCB EDGE" points to the outer boundary of the board.
- Plating and Surface Finish:**
 - "5 PLC" (Plating Thickness) is specified for several areas.
 - "2 PLC" (Plating Thickness) is specified for other areas.
 - "3 PLC" (Plating Thickness) is specified for a specific area.
 - "5" (Surface Finish) is indicated by triangles at various locations.
- Other Labels:**
 - "-V-" and "-U-" are located near the bottom left corner.
 - "BSC" (Basic Size Center) is labeled near the bottom left corner.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN S_ZHAO 10APR2007		 TE Connectivity	
DIMENSIONS: INCHES		CHG S_ZHAO 10APR2007			
		APVD S_ZHAO -			
		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME RIGHT ANGLE WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE	
		0 PLC ±.			
		1 PLC ±.			
		2 PLC ±.01			
		PRODUCT SPEC		SIZE CAGE CODE DRAWING NO RESTRICTED TO A 00779 © 6450830 -	
		108-2292			
		APPLICATION SPEC			
		114-13251			
3 PLC ±.005 4 PLC ±.0020 ANGLES ±?°		WEIGHT -		SCALE 4:1 SHEET 34 OF 42 REV S2	
FINISH -					
MATERIAL -		CUSTOMER DRAWING			

Timing diagram for the 4-bit parallel adder showing the propagation of a carry signal through four full adders. The carry signal starts at 0.300 (3 PLC) and propagates through the first, second, third, and fourth full adders, with delays of 0.350, 0.250, and 0.275 PLC respectively. The final carry signal is 0.275 (8 PLC).



[illegible]4805 (3/11)

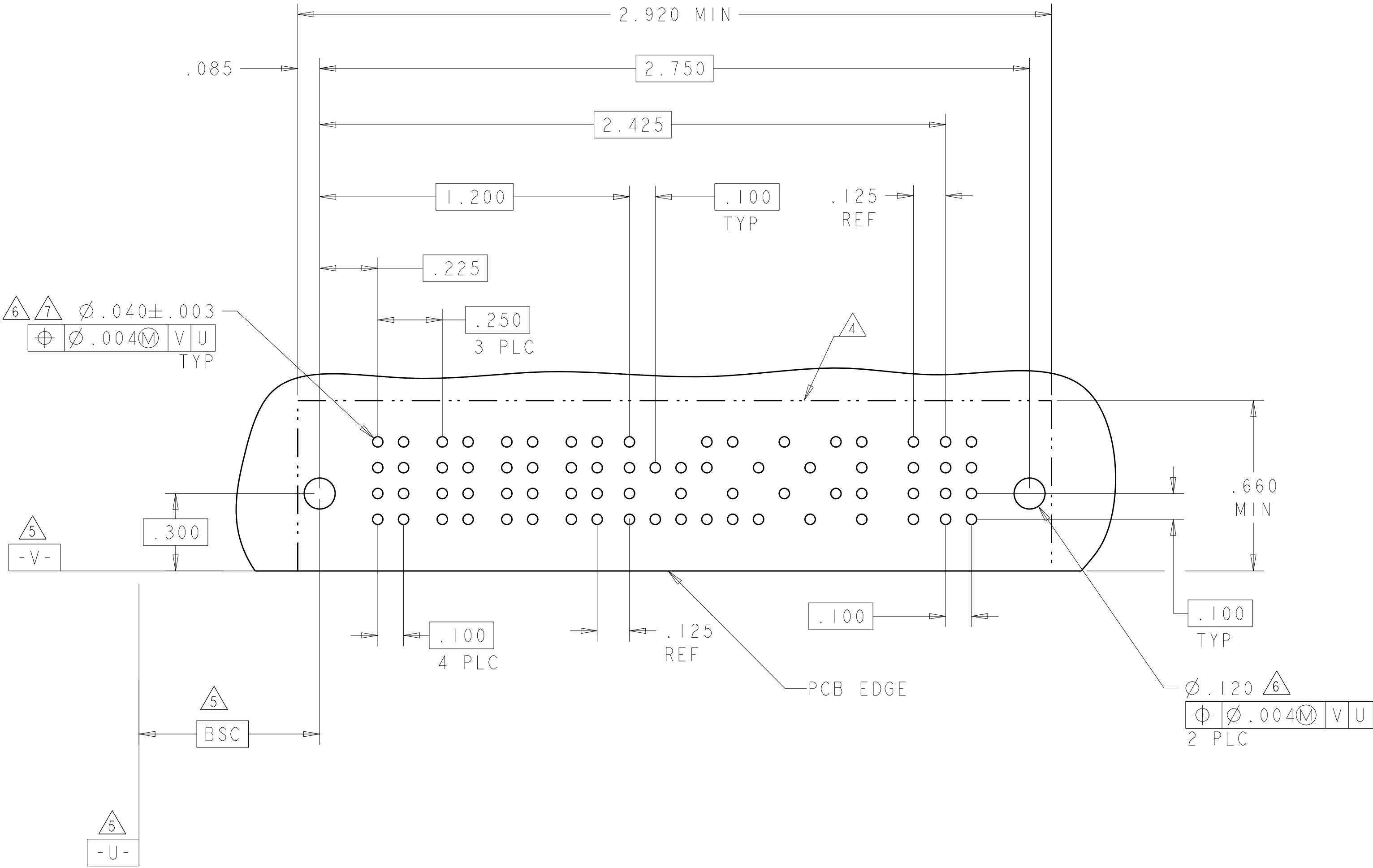
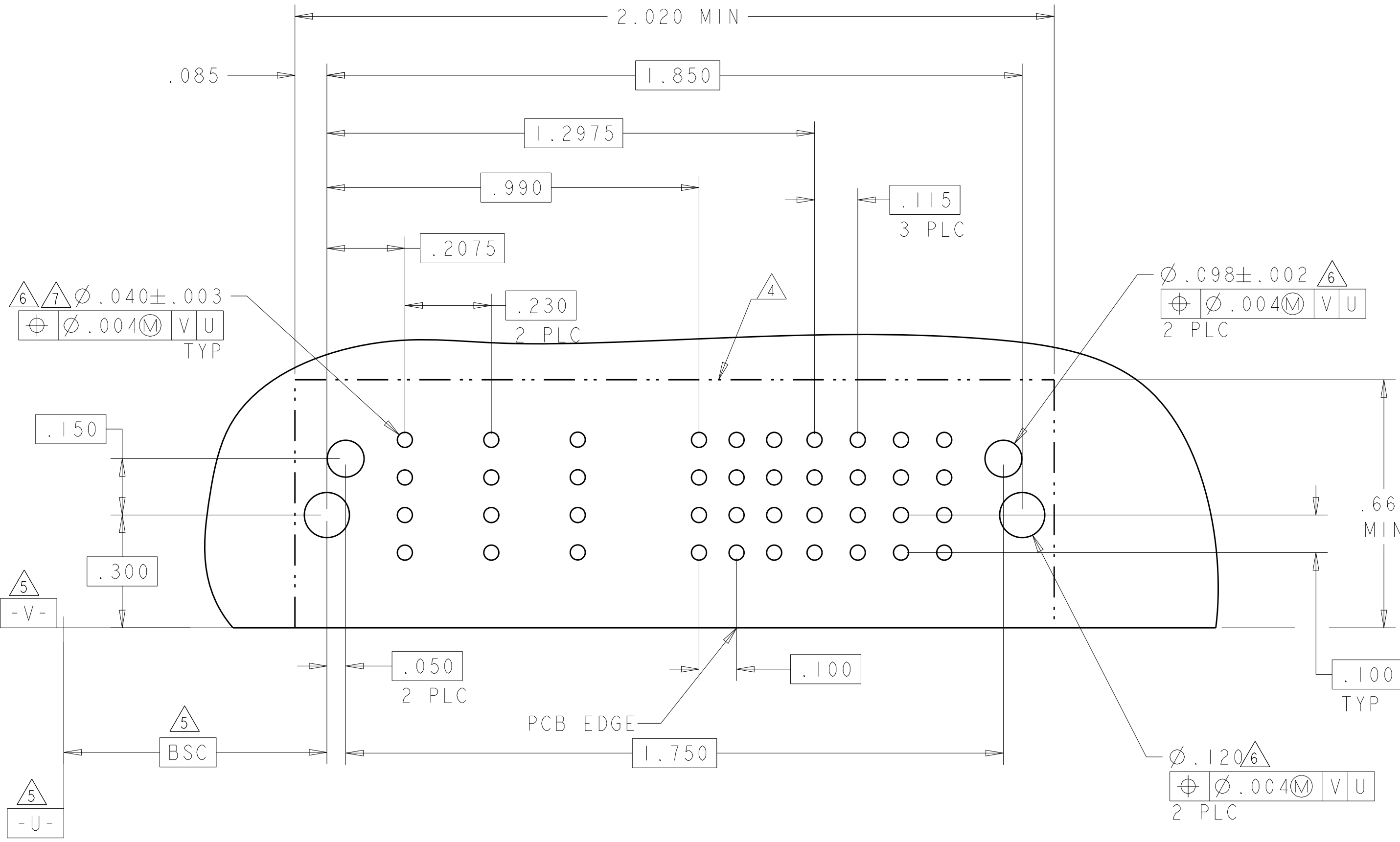
LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-		SEE SHEET 1	-	-	-

R3

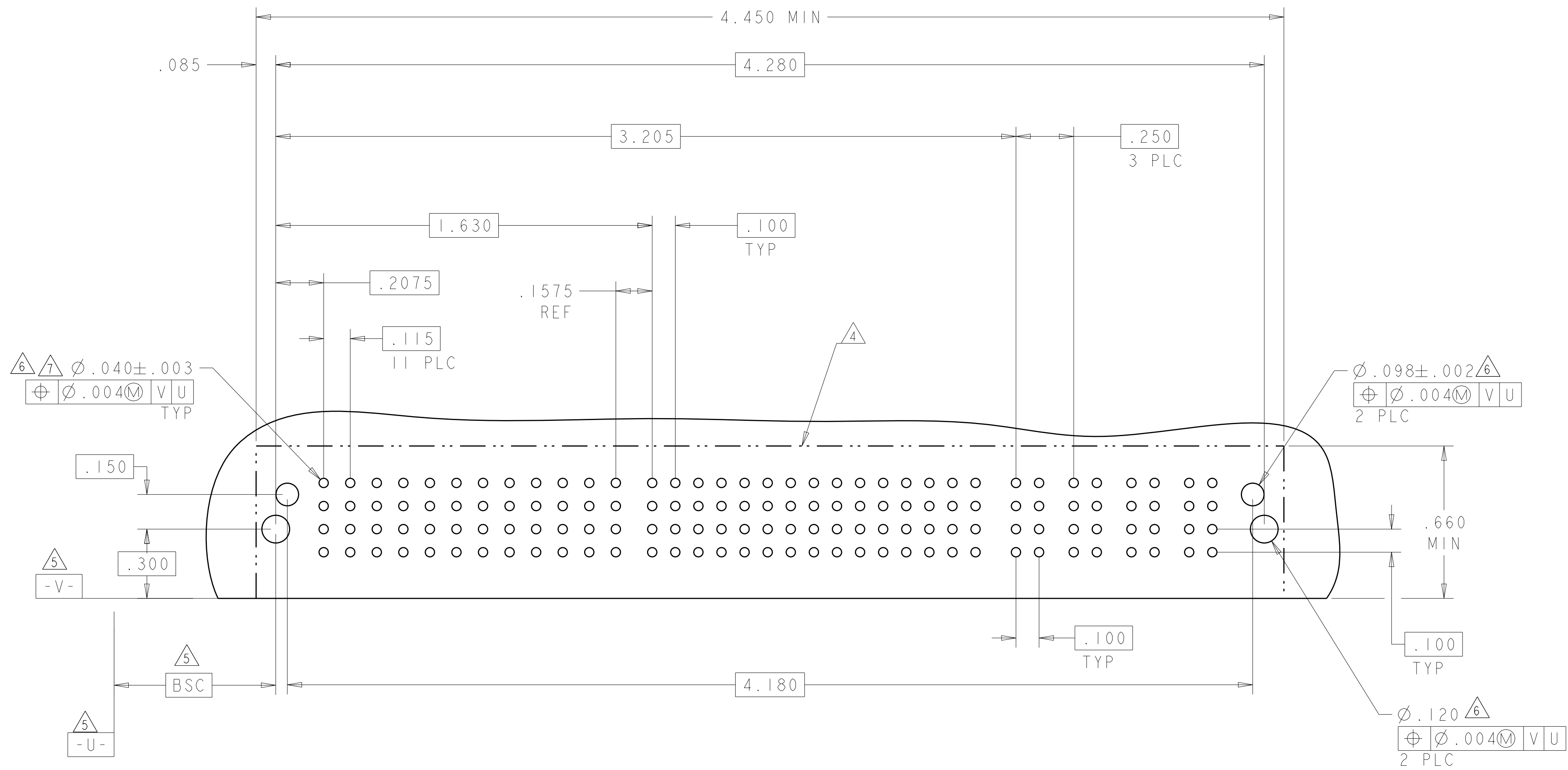
PART NUMBER	ROWS		LOW POWER			SIGNAL			LOW POWER				
			LP1	LP2	LP3	1	2	3	LP4	LP5	LP6	LP7	
7-6450830-6	D		LM	LM	LM	J	J	J	LM	LM	LM	LM	
	C					K	K	K					
	B					N	N	N					
	A					S	S	S					
3LP + 12S + 4LP													

PART NUMBER	ROWS		POWER				SIGNAL												POWER	
			P1	P2	P3	P4	1	2	3	4	5	6	7	8	9	10	11	12	P4	
7-6450830-7	D		TM	TM	TM	TM	E			E	J		J		J	E		E	TM	
	C						F	F	F	F		K		K		F		F		
	B						G		G		N		N		N	G		N		
	A						H	H	H	H	H		S		H		H			
4P + 48S + 1P																				

BLANK SIGNAL PINS ARE UNLOADED PINS



PART NUMBER	ROWS		LOW POWER												SIGNAL															POWER						
			LP1	LP2	LP3	LP4	LP5	LP6	LP7	LP8	LP9	LP10	LP12	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	P1	P2	P3	P4				
7-6450830-8	D		LM	LM	LM	LM	LM	LM	LM	LM	LM	LM	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	TM	TM	TM	TM					
	C												K	K	K	K	K	K	K	K	K	K	K	K	K	K	K						K	K		
	B												N	N	N	N	N	N	N	N	N	N	N	N	N	N	N						N	N	N	
	A												S	S	S	S	S	S	S	S	S	S	S	S	S	S	S						S	S	S	
12LP + 60S + 4P																																				



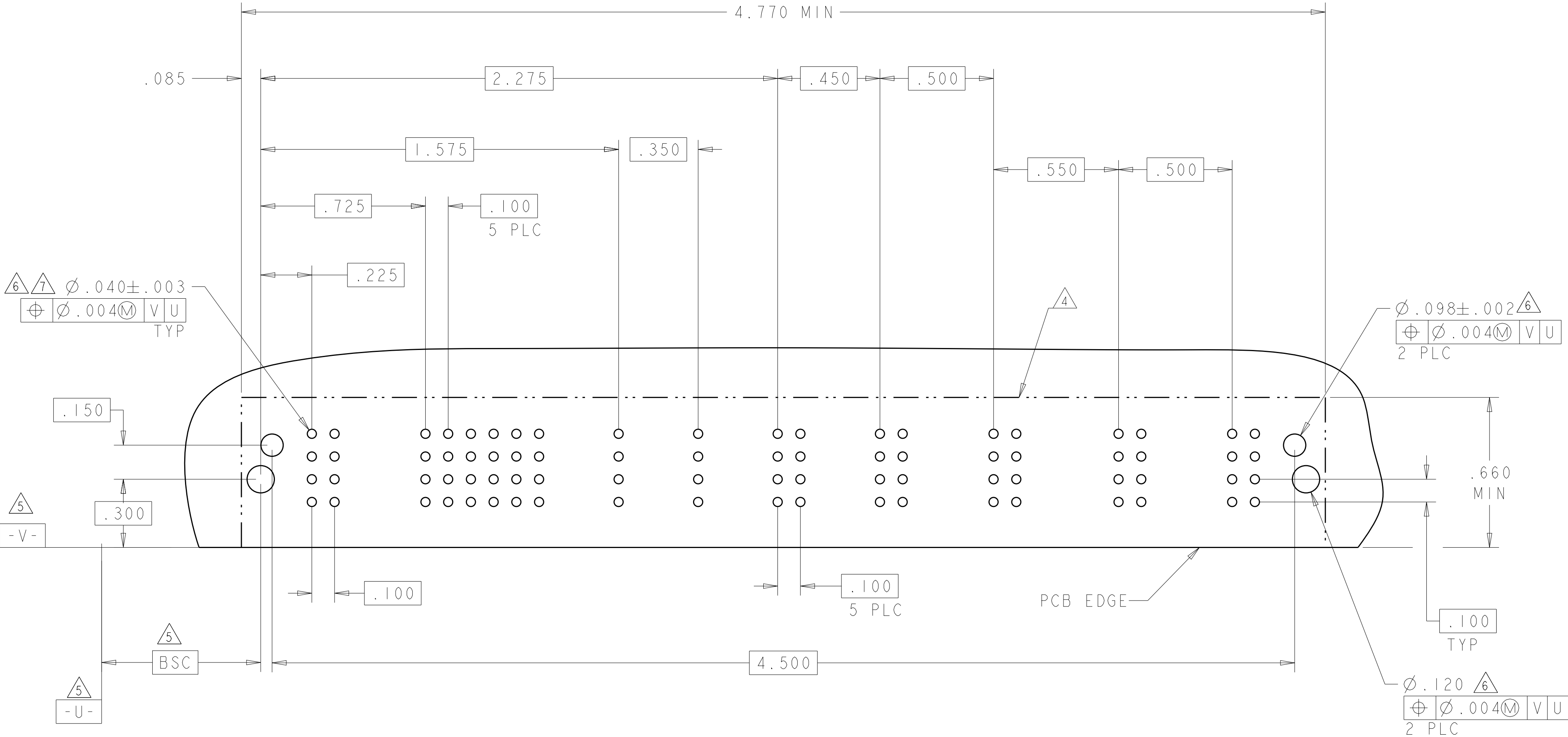
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN S_ZHAO 10APR2007		 TE Connectivity	
DIMENSIONS:		CHN S_ZHAO 10APR2007			
INCHES		APVD S_ZHAO -			
		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ± 2 PLC ±.01 3 PLC ±.005 4 PLC ±.0020 ANGLES ±?°		NAME RIGHT ANGLE WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE	
MATERIAL		PRODUCT SPEC 108-2292		SIZE	
FINISH		APPLICATION SPEC 114-13251		CAGE CODE	
WEIGHT		DRAWING NO		RESTRICTED TO	
A		00779		C=6450830	
CUSTOMER DRAWING		SCALE		SHEET	
4:1		38		OF 42	
REV		S2			

[illegible]4805 (3/11)

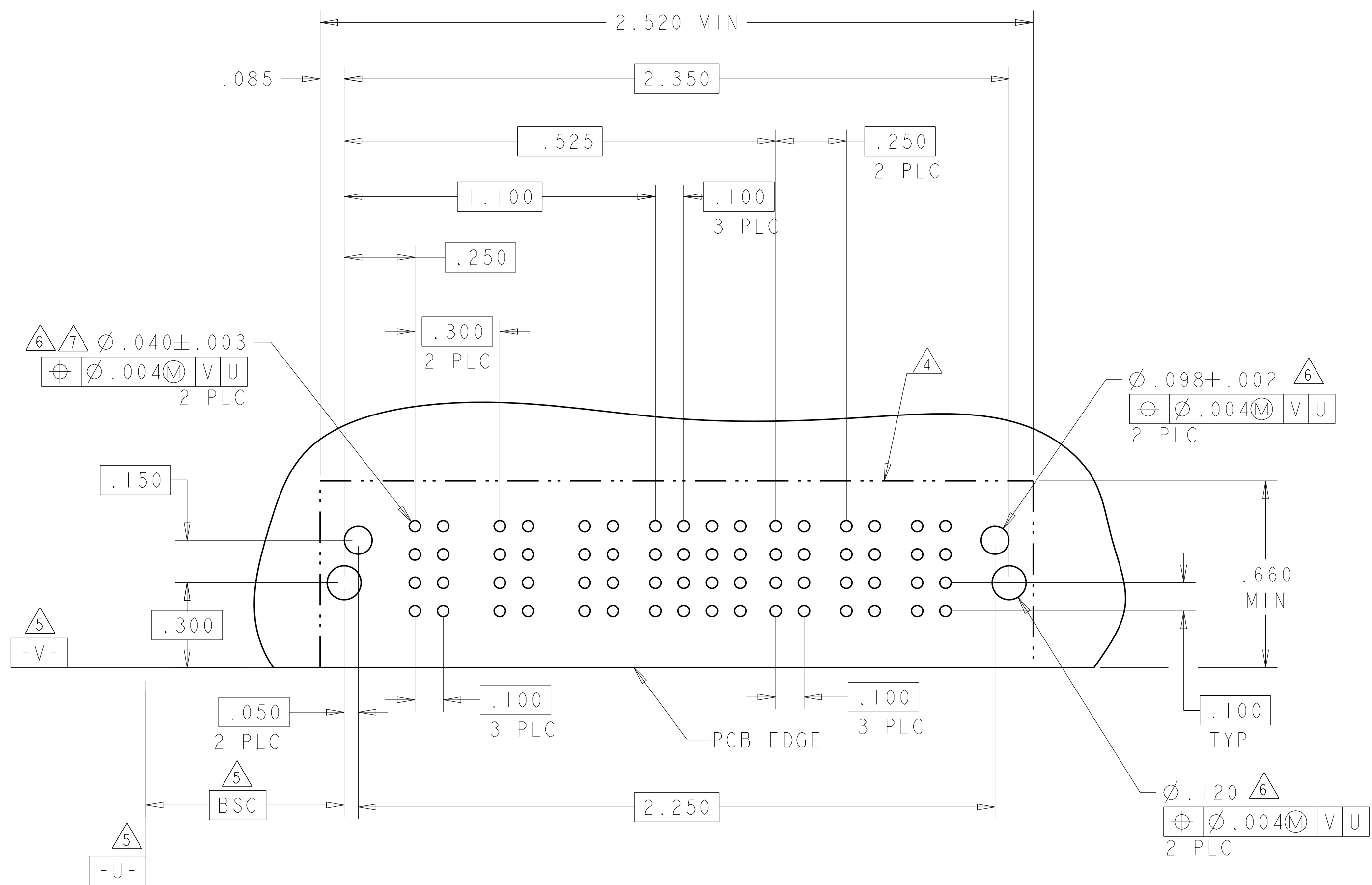
NO CONTACTS LOADED

NO CONTACTS LOADED

NO CONTACTS LOADED

4805 (3/11)

PART NUMBER	ROWS		POWER			SIGNAL				POWER			
			P1	P2	P3	1	2	3	4	P4	P5	P6	
8-6450830-0	D	 [HD]	TM	TM	TM	J	J	J	J	TM	TM	TM	 [HD]
	K					K	K	K					
	N					N	N	N					
	S					S	S	S					
3ACP + 16S + 3P													



THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN S. ZHAO	10APR2007	 TE Connectivity	
		CHK S. ZHAO	10APR2007		
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 P/LC ± 1 P/LC ± 2 P/LC ±.01 3 P/LC ±.005 4 P/LC ±.0020 ANGLES ±2°		NAME RIGHT ANGLE WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE	
		APVD S. ZHAO PRODUCT SPEC 108-2292 APPLICATION SPEC 114-13251			
MATERIAL	FINISH	WEIGHT	SIZE CAGE CODE DRAWING NO. RESTRICTED TO A100779G6450830 -		
CUSTOMER DRAWING			SCALE 4:1	SHEET 41 OF 42	REV S2

- NO CONTACTS LOADED

