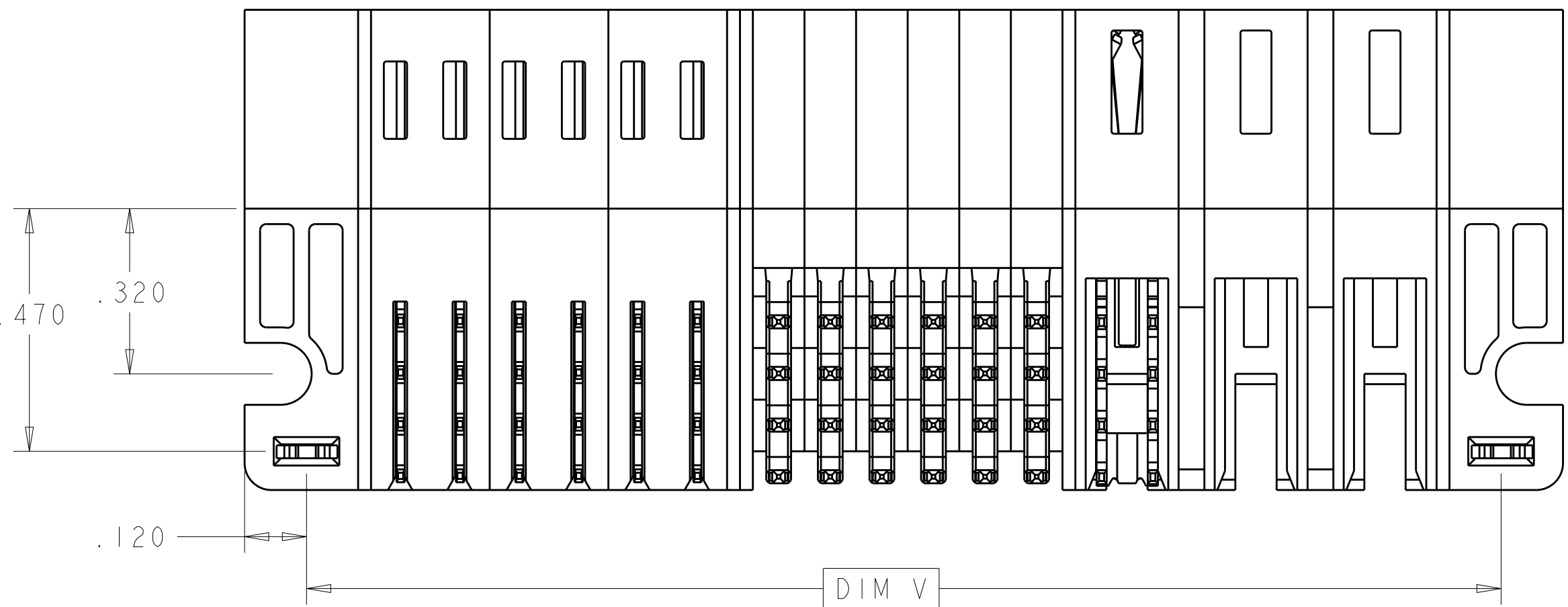
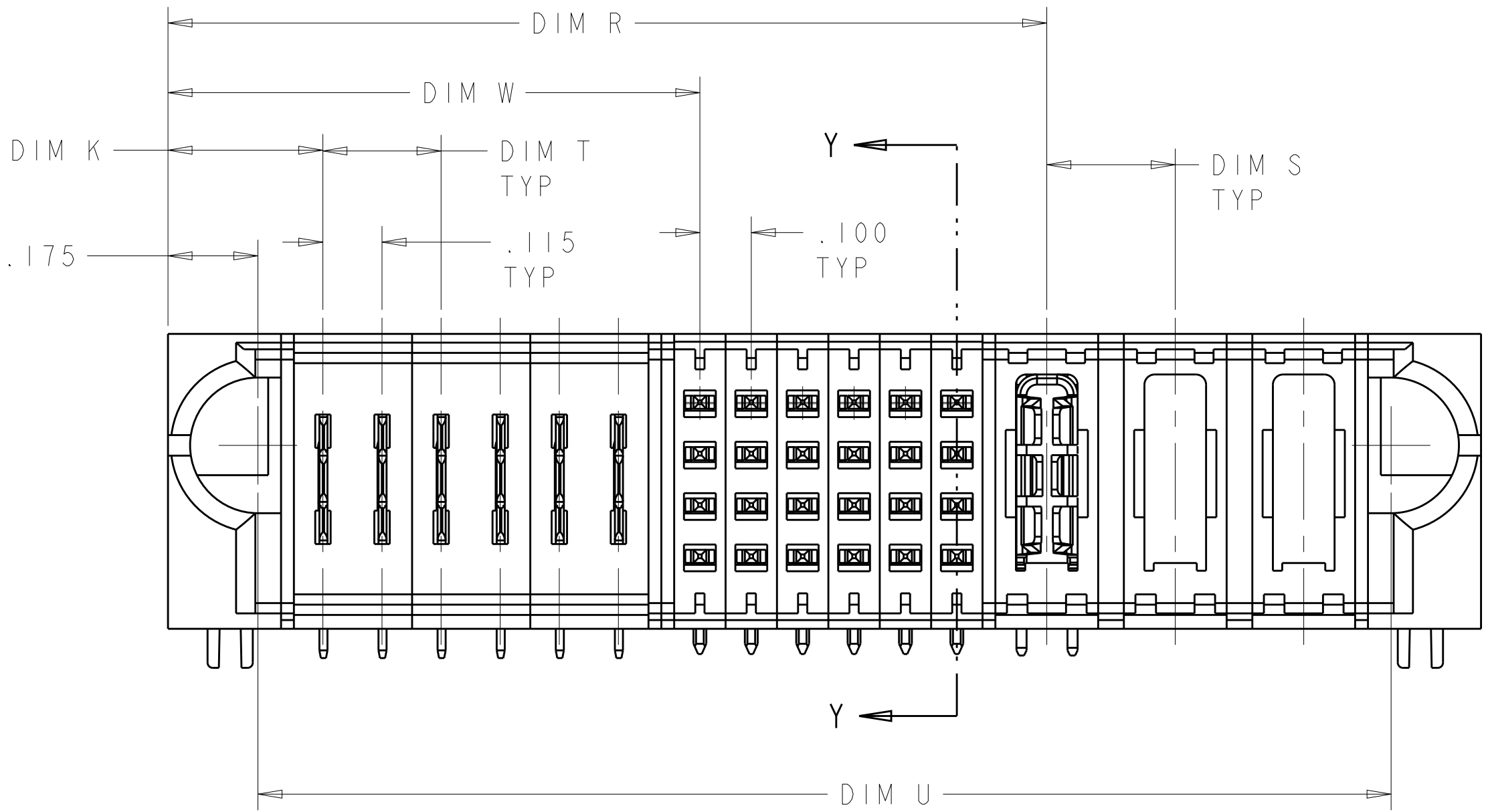
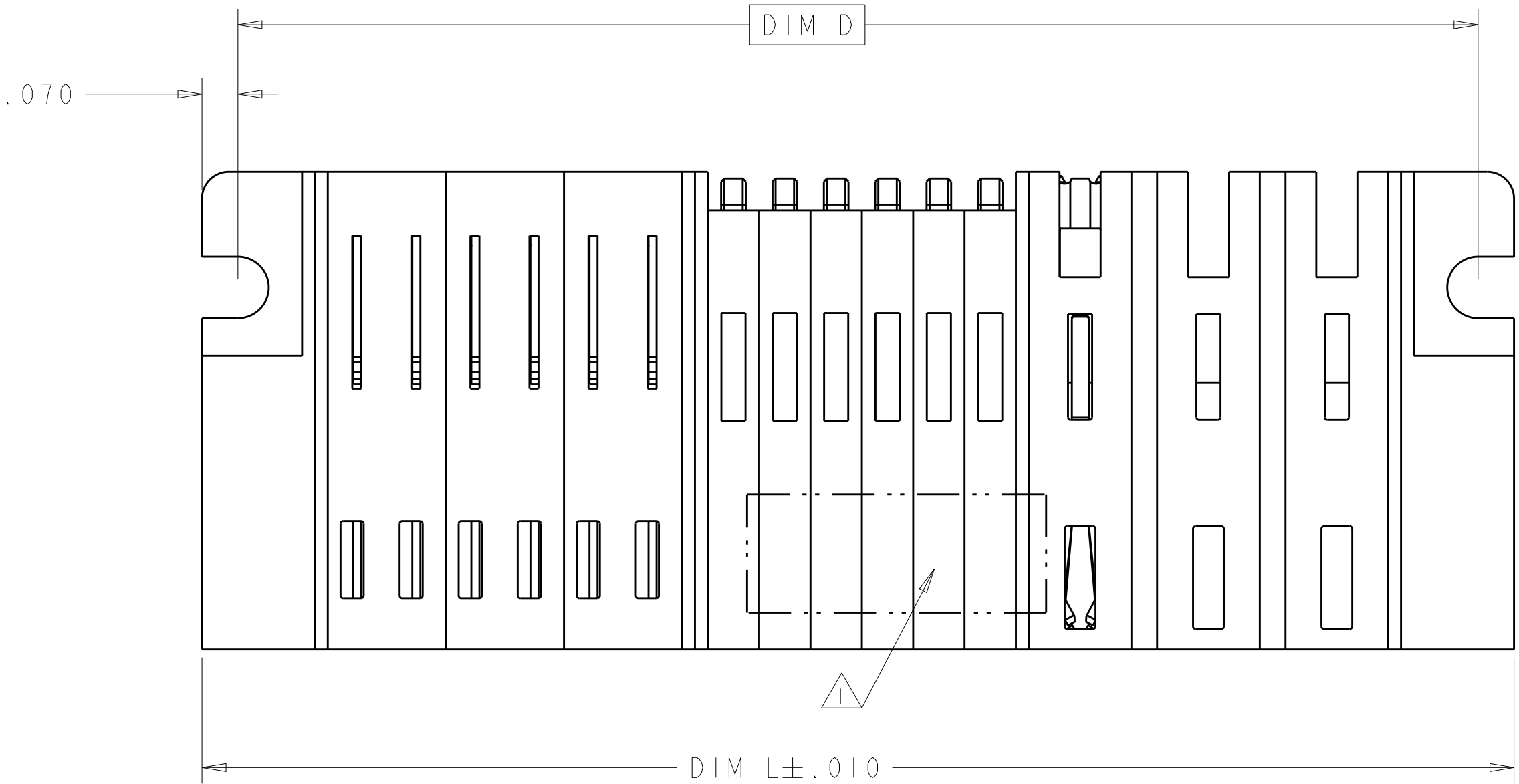
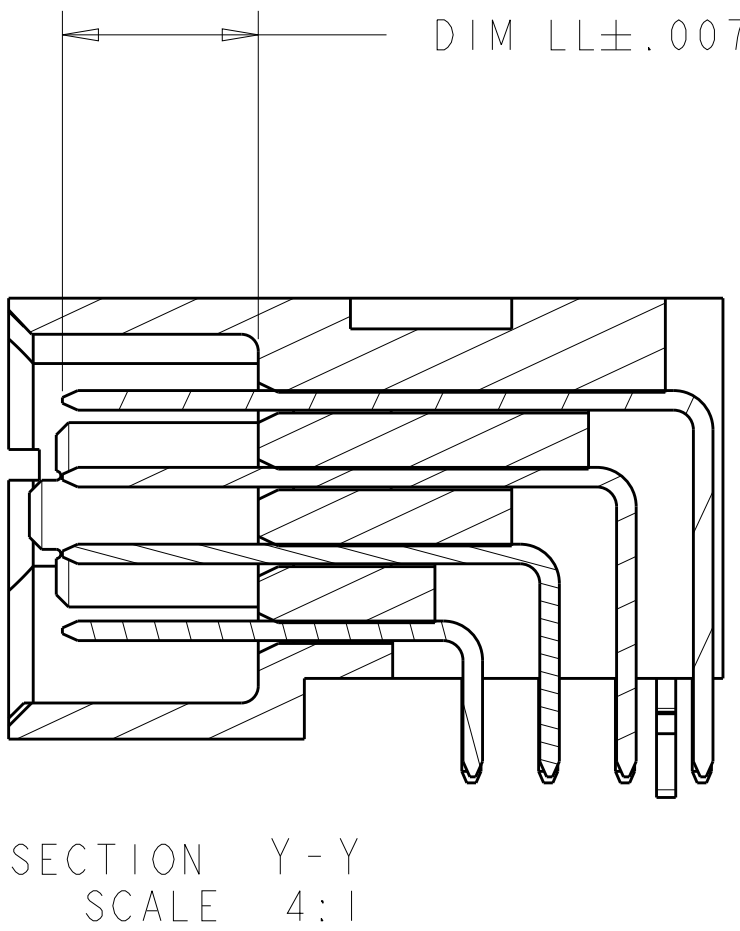
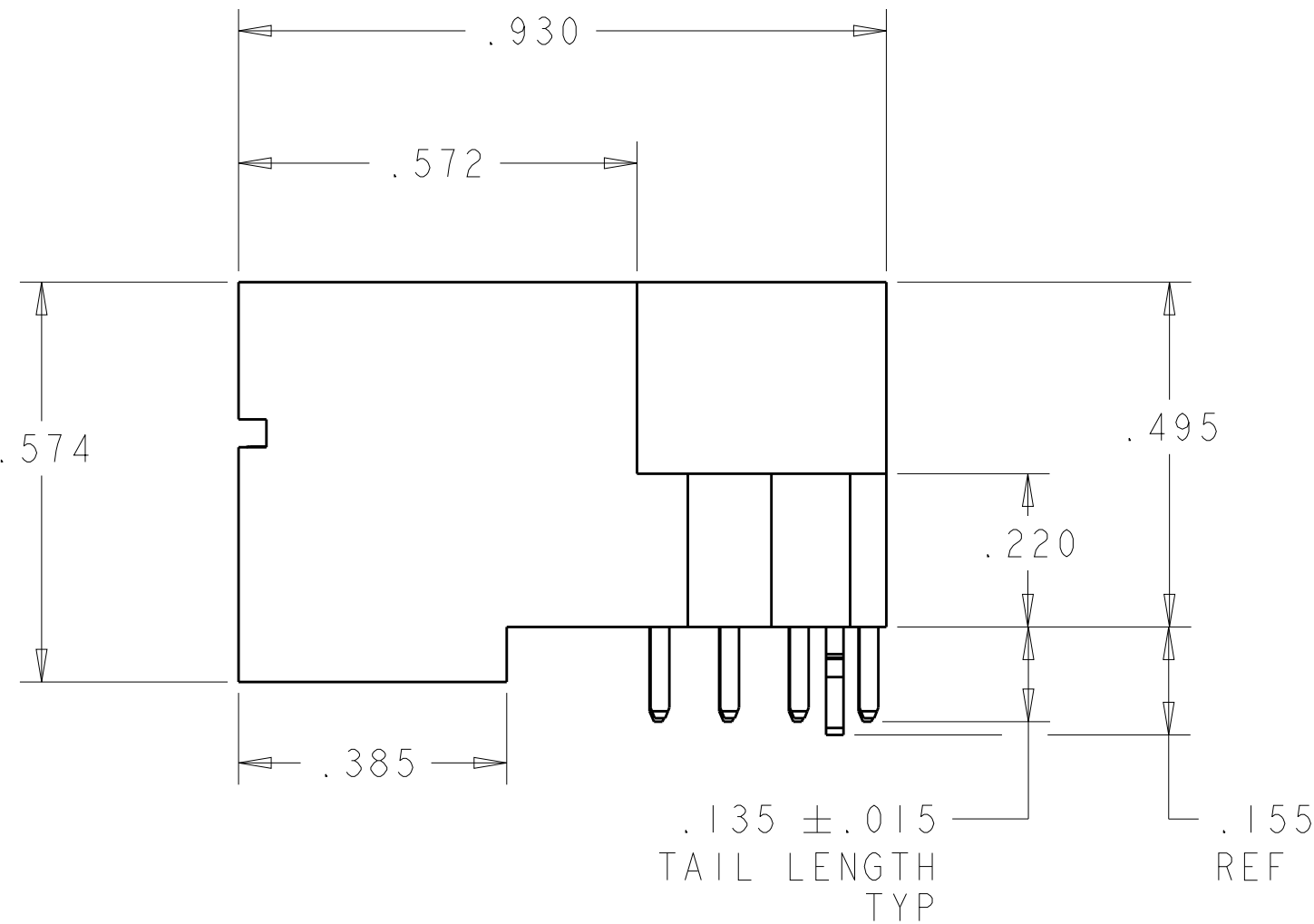


LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
			R9	REVISED 8-1	05NOV2014	CZ	SZ
			S	ADD NEW DASH NUMBER 8-2	07FEB2015	CZ	SZ
			S2	REVISED 8-2 CUSTOMER	09MAR2015	CZ	SZ



- 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	
		CHK S. ZHAO	10APR2007		
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
		0 PLC ±"		PRODUCT SPEC	
		1 PLC ±.01		108-2292	
		2 PLC ±.01		APPLICATION SPEC	
		3 PLC ±.005		114-13251	
		4 PLC ±.0020		WEIGHT	
		ANGLES ±2°		CUSTOMER DRAWING	
MATERIAL : 2		FINISH : 3		SIZE : 100779	
				CAGE CODE : 6450830	
				RESTRICTED TO : -	
				SCALE : 4:1	
				SHEET : 1	
				OF : 42	
				REV : S2	

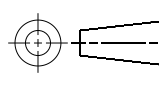
LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-		SEE SHEET 1	-	-	-

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

-

CUSTOMER DRAWING

NAME

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

SIZE
A1

CAGE CODE
100779

DRAWING NO
6450830

RESTRICTED TO

-

TE Connectivity

SCALE
4:1

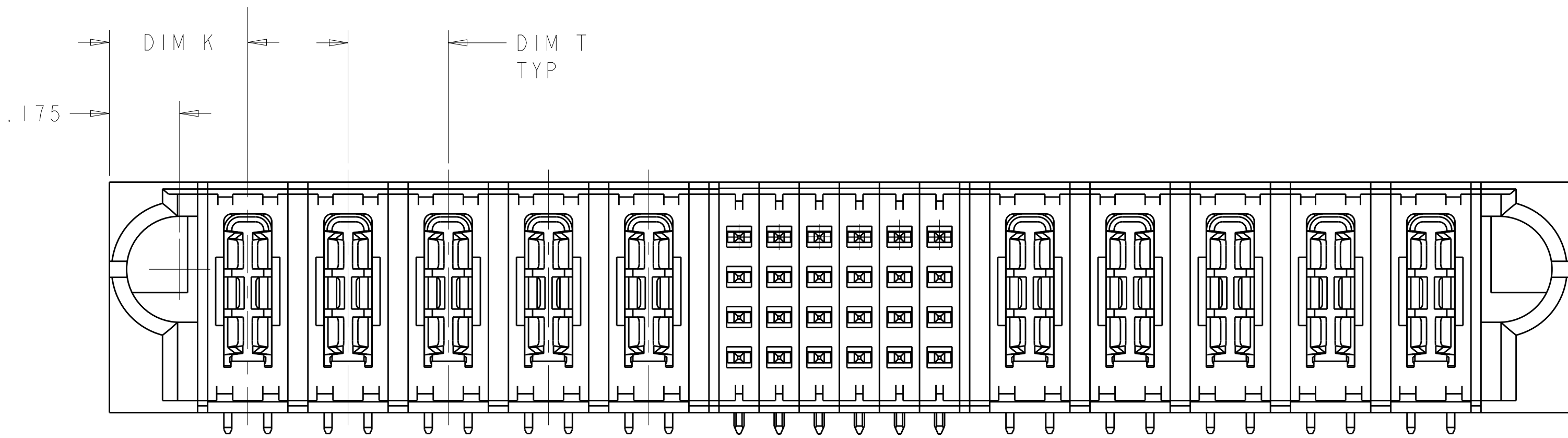
SHEET
2

OF
42

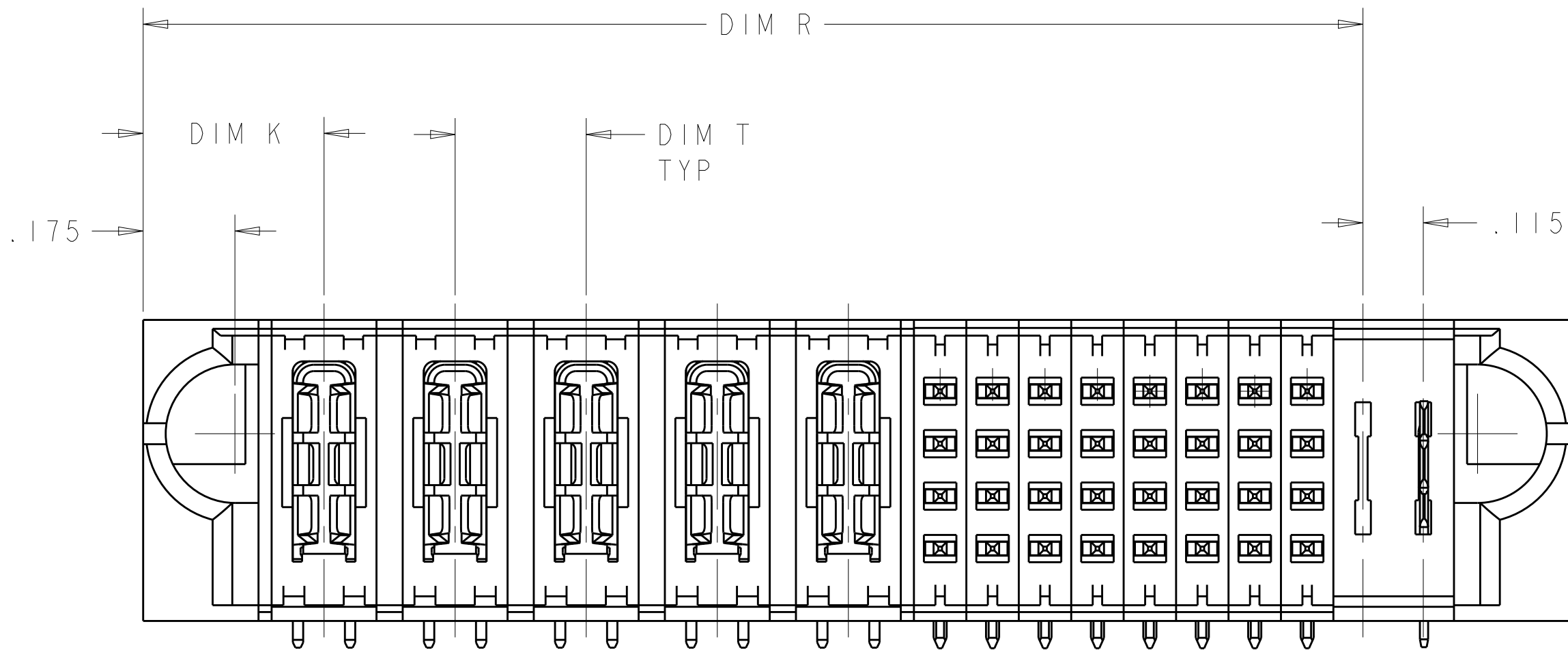
REV
S2

4805 (3/11)

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

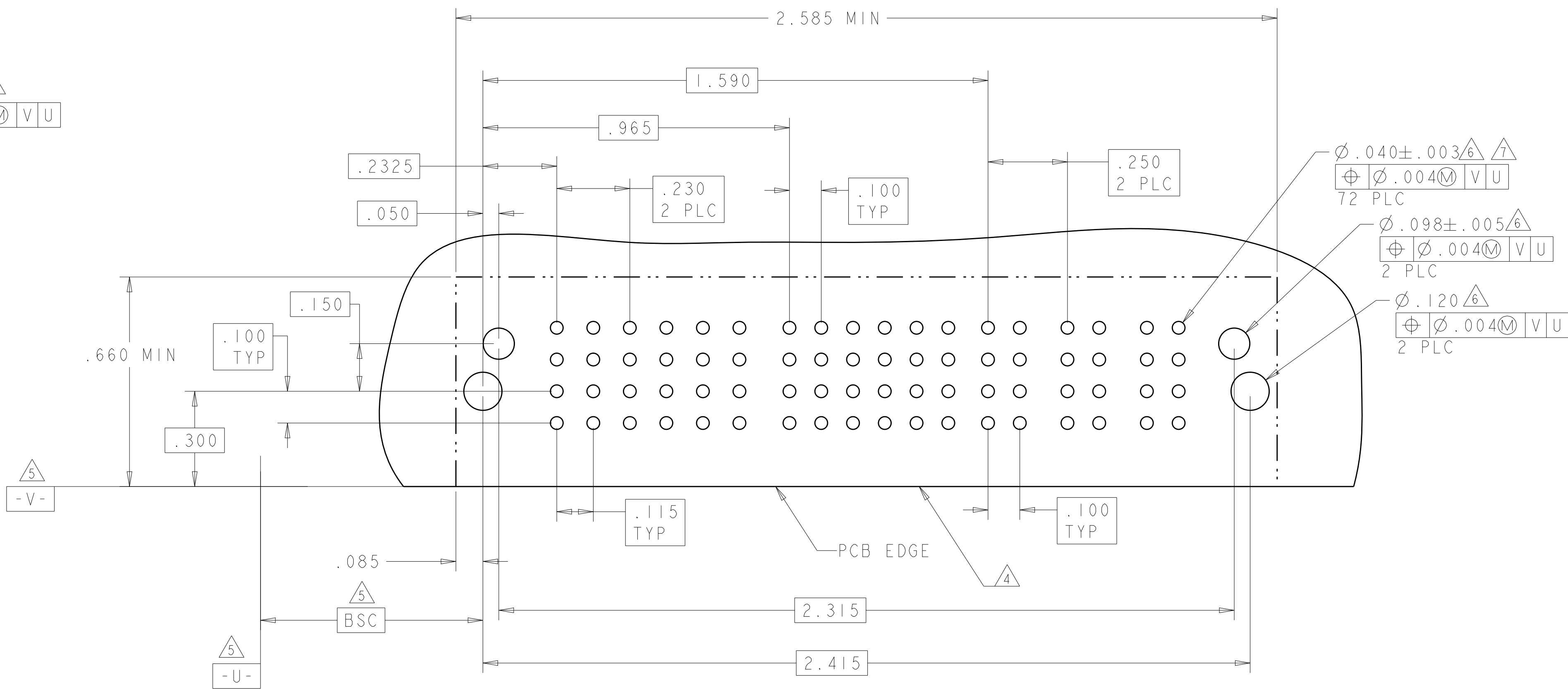
OF

42

REV

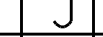
S2

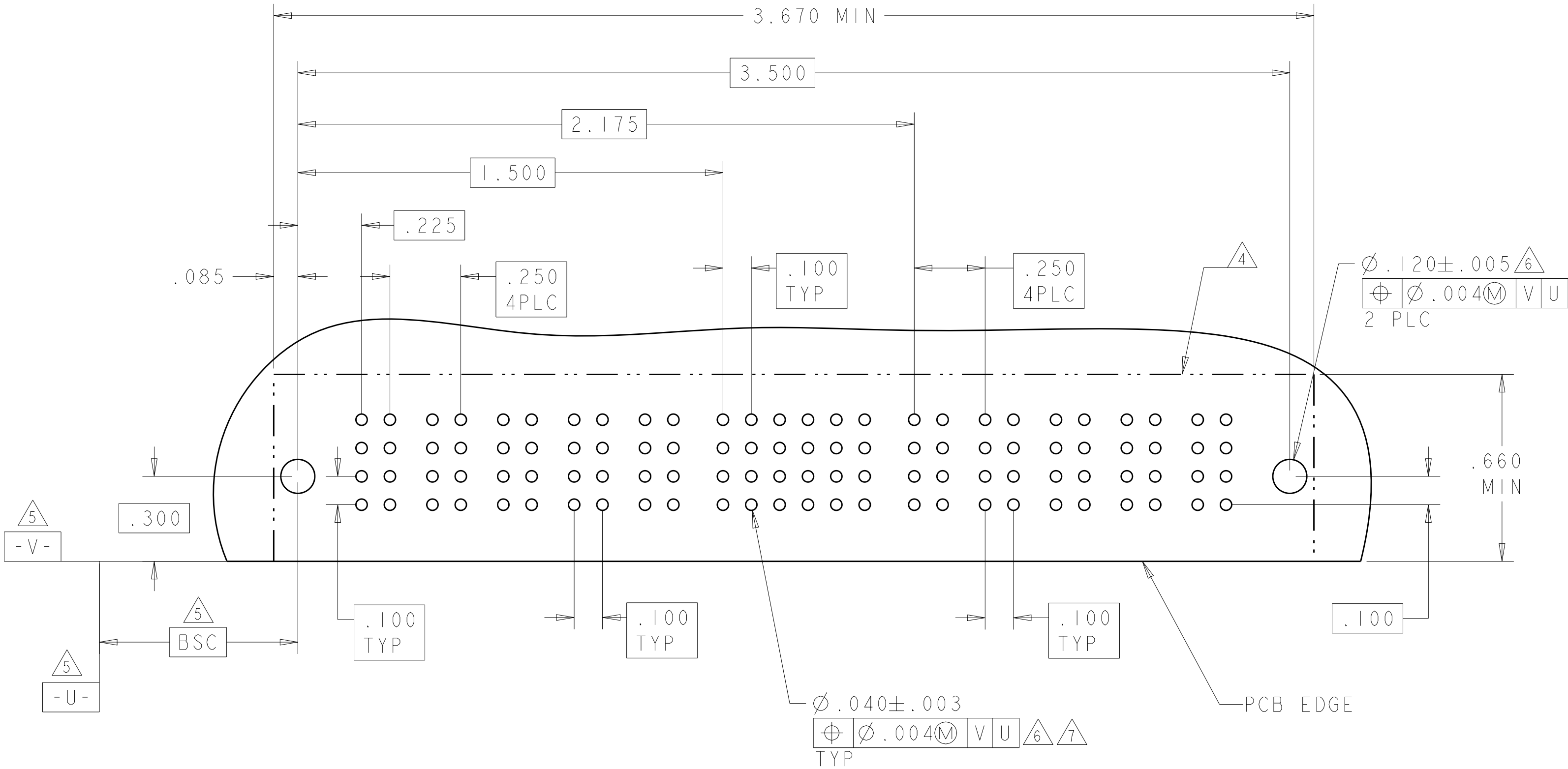
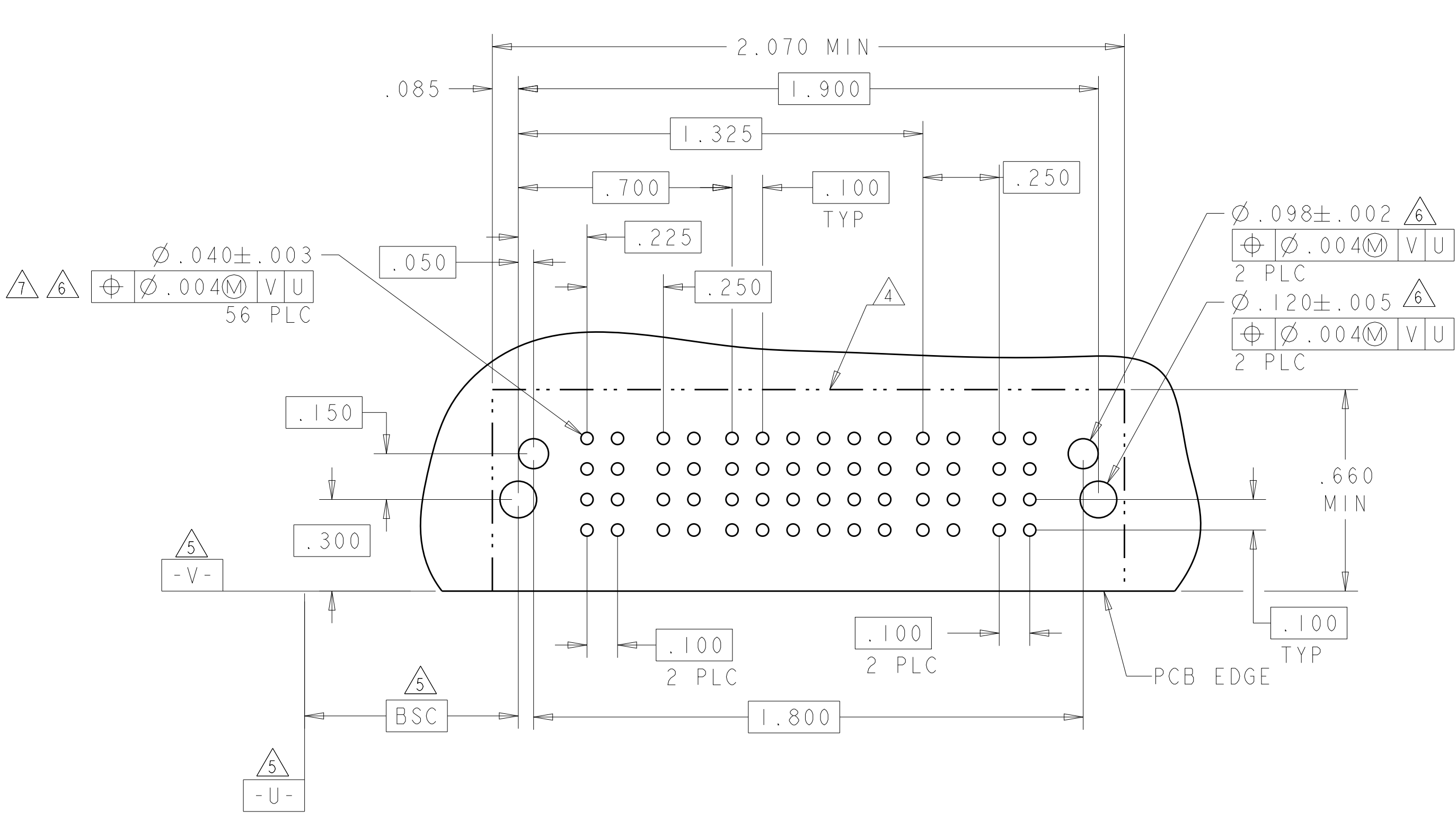
PART NUMBER	ROWS		POWER						SIGNAL						POWER			
			LP1	LP2	LP3	LP4	LP5	LP6	1	2	3	4	5	6	P1	P2	P3	
6450830-2	D C B A		LM	LM	LM	LM	LM	LM	J	J	J	J	J	J	TM	TM	TM	
									K	K	K	K	K	K				
									N	N	G	N	N	N				
									S	S	S	S	S	S				
6LP + 24S + 3P																		

4805 (3/11)

LOC	DIST	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						J	J	J	J	J	J							
							K	K	K	K	K	K							
							N	N	N	N	N	N							
							S	S	S	S	S	S							
5P + 24S + 5P																			

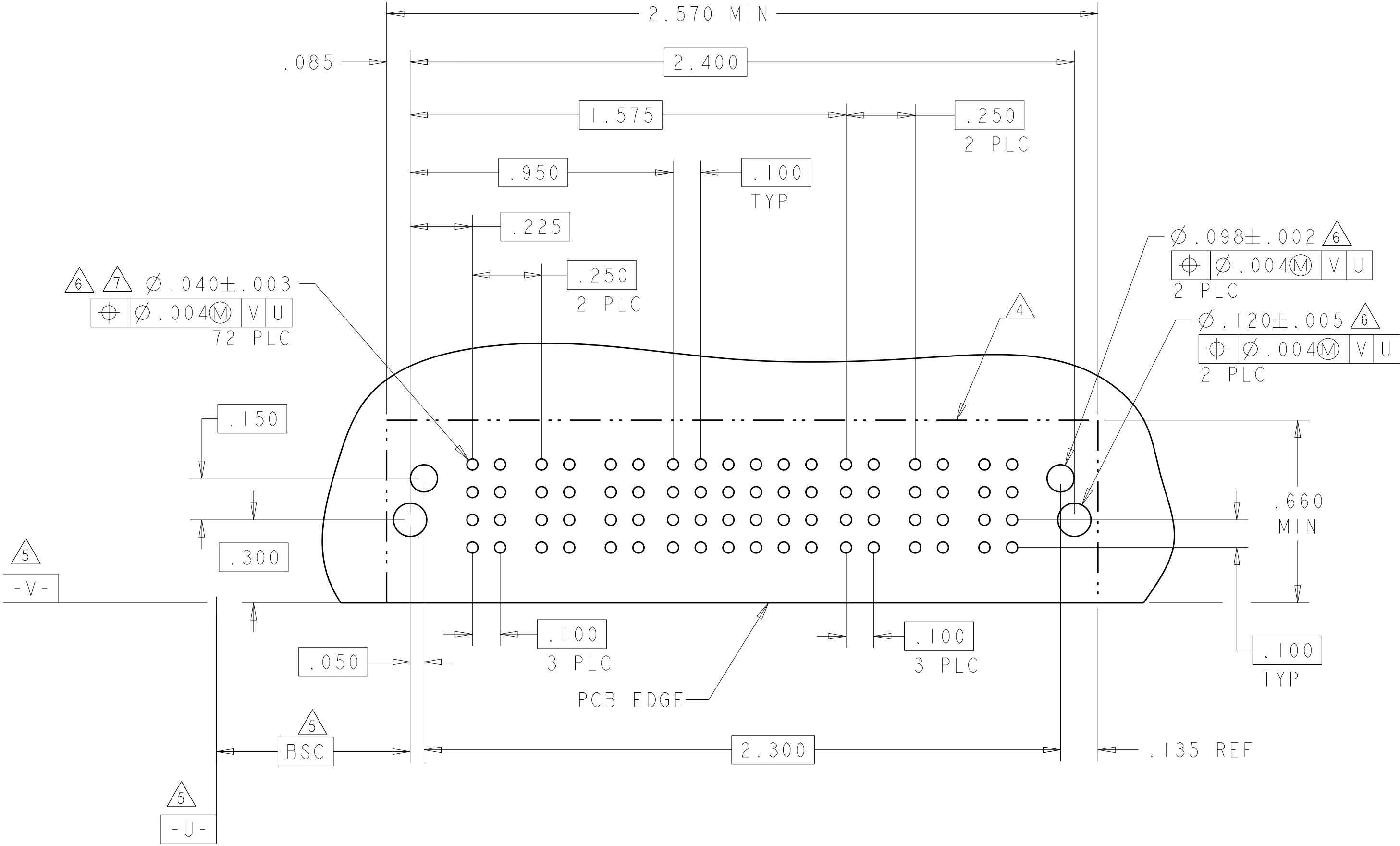
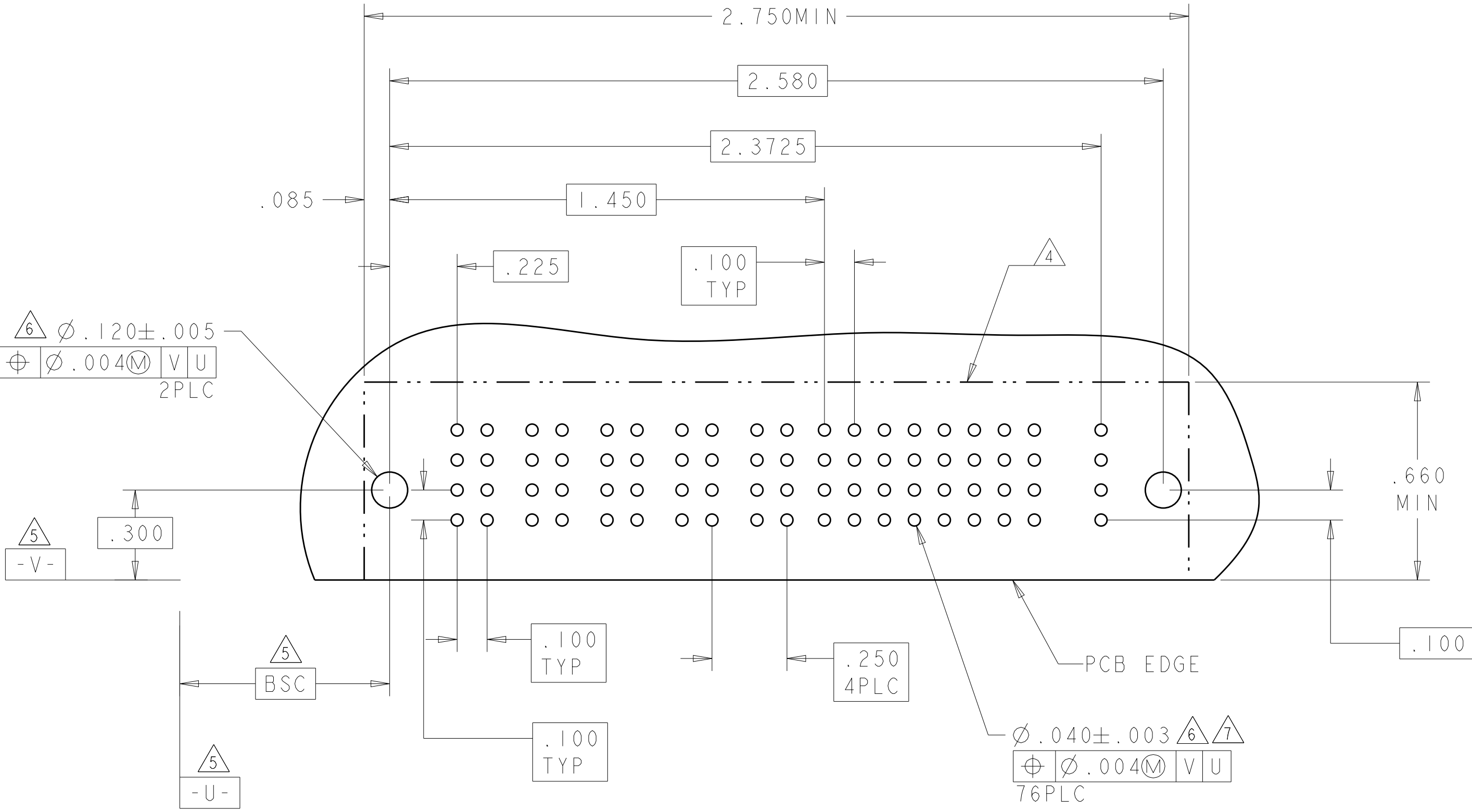


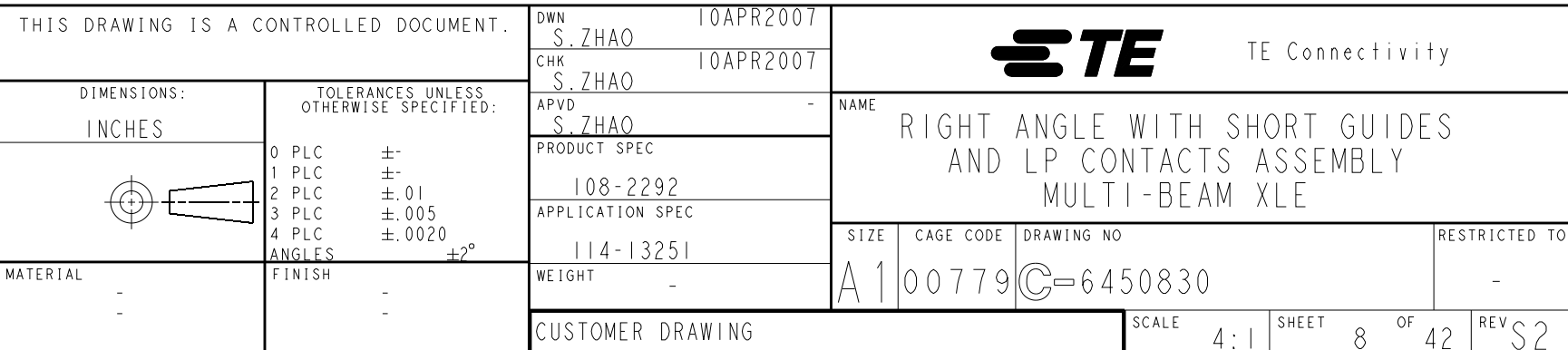
LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-		SEE SHEET 1	-	-	-

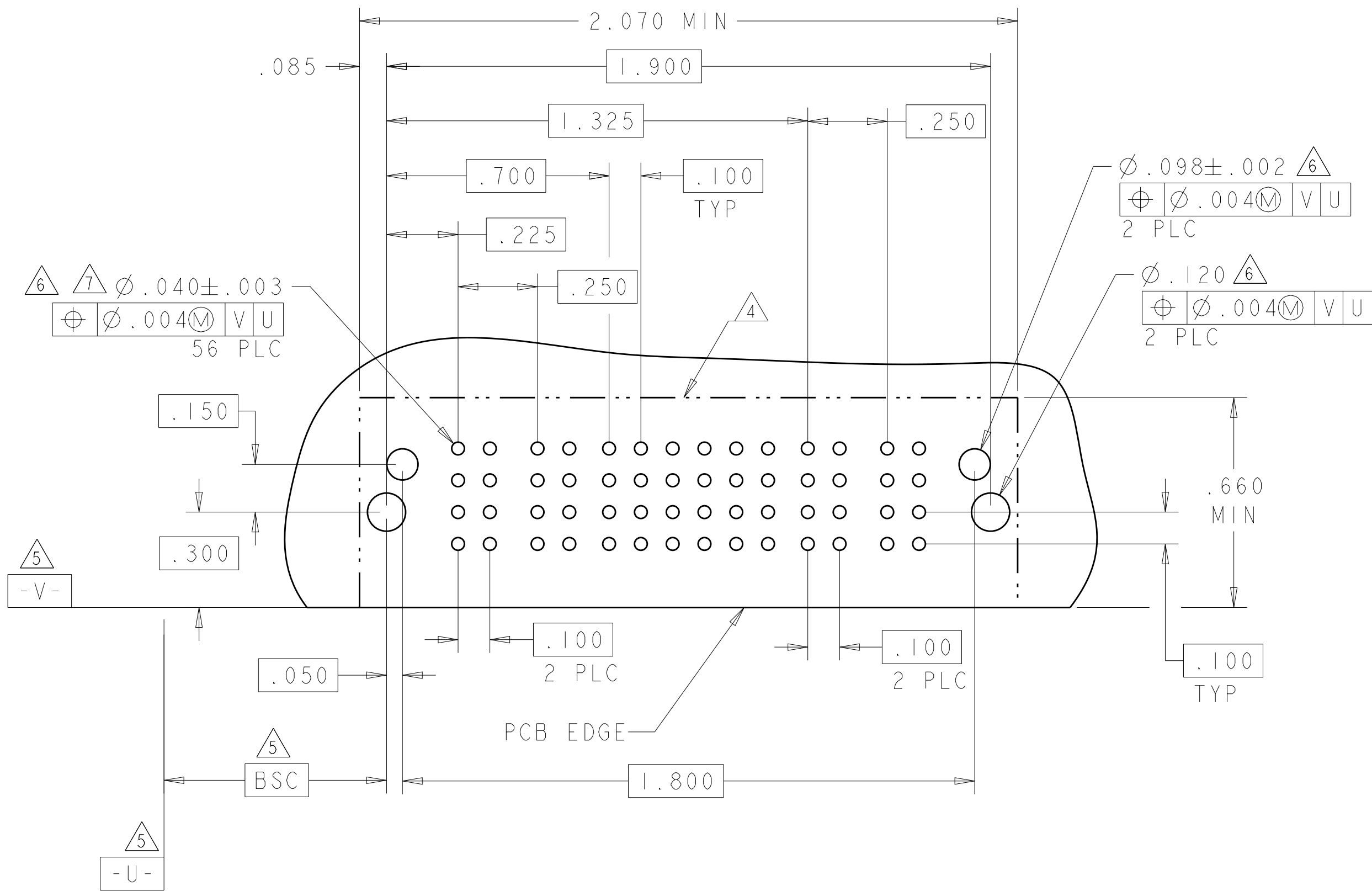
PART NUMBER	ROWS		POWER					SIGNAL								POWER		
			P1	P2	P3	P4	P5	1	2	3	4	5	6	5	6	P6	P7	
6450830-8	D		TM	TM	TM	TM	TM	J	J	J	J	J	J	J	J	LM		
	C							K	K	K	K	K	K	K	K			
	B							N	N	N	N	N	N	N	N			
	A							S	S	S	S	S	S	S	S			
5P + 32S + 2LP																		

NO CONTACT LOADED

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



-NO CONTACTS LOADED

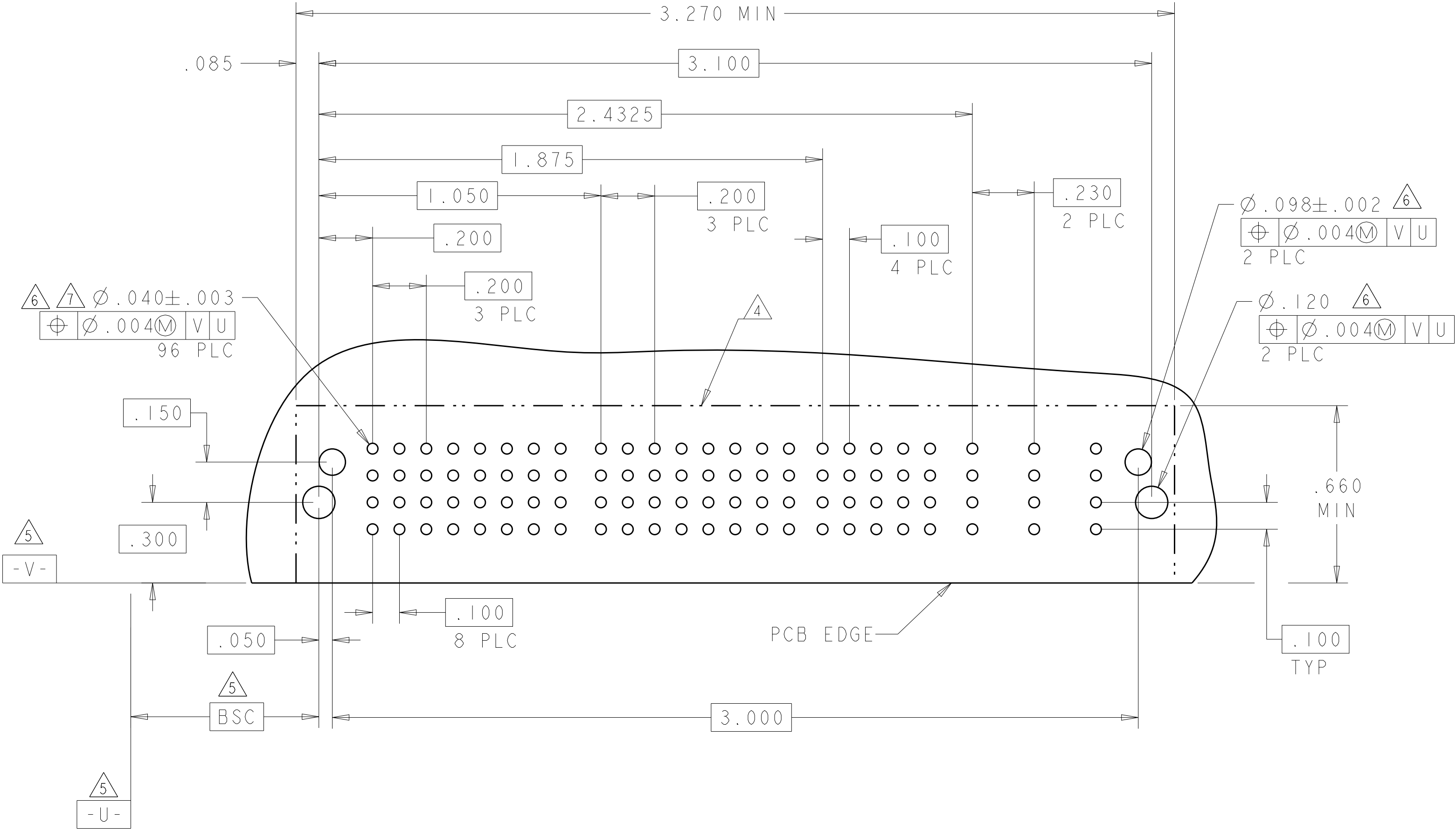
[illegible]

LOC	DIST	REVISIONS				
		P	LTR	DESCRIPTION	DATE	DWN
ES	00	-	-	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							
8HDP + 20S + 5LP										S	S	S	S	S							

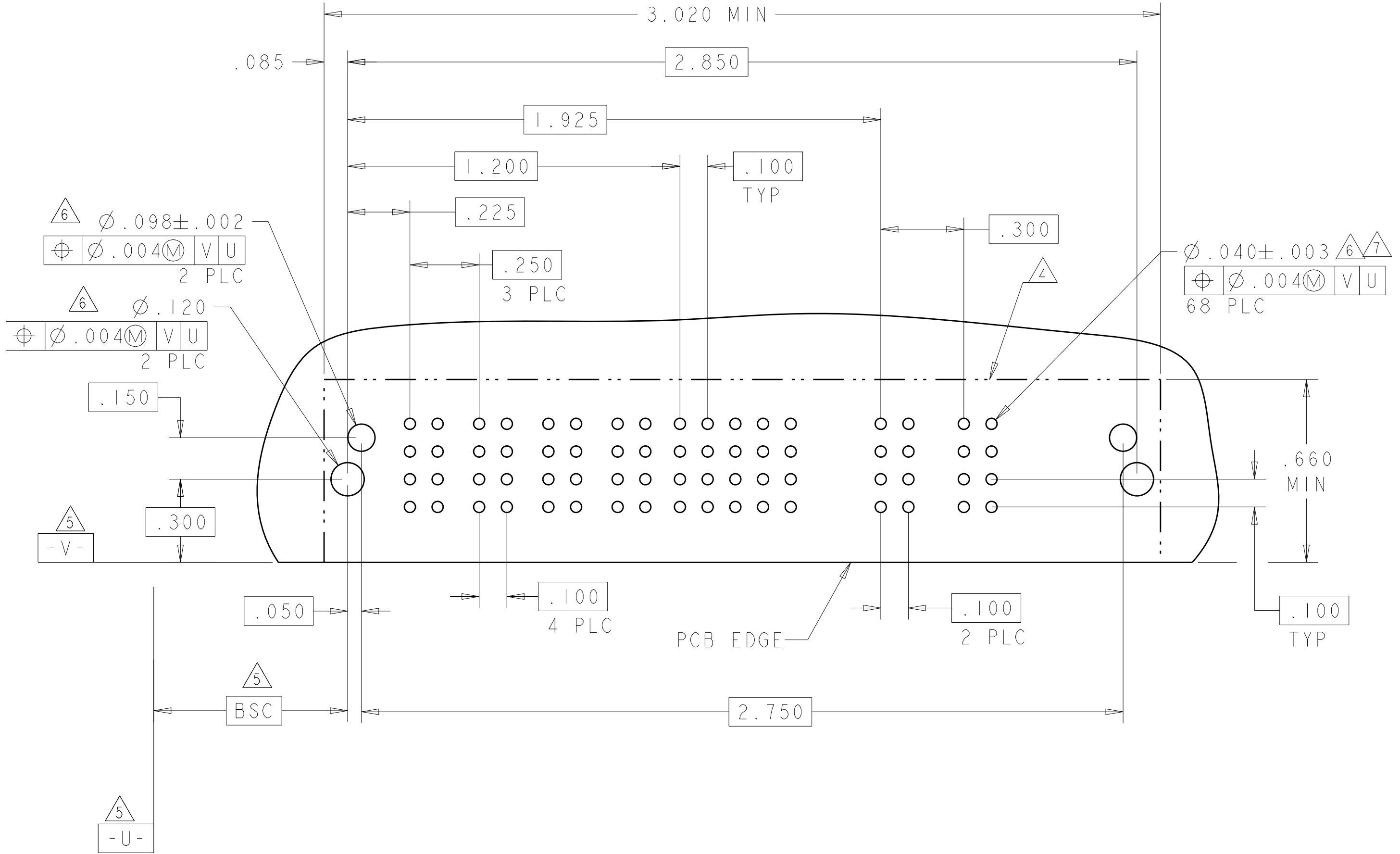
.250
6 PLC

.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



THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN S.ZHAO 10APR2007
CHK S.ZHAO 10APR2007
APVD S.ZHAO -

DIMENSIONS:
INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±
1 PLC ±.01
2 PLC ±.01
3 PLC ±.005
4 PLC ±.002
ANGLES ±.020
FINISH #2

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 A100779

CAGE CODE C=6450830

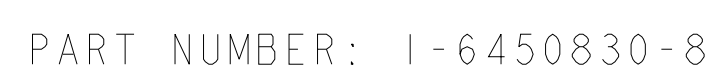
DRAWING NO

RESTRICTED TO

SCALE 4:1

SHEET 10 OF 42

REV S2



4.395 MIN

4.225

3.700

3.075

1.525

1.300

.325
2 PLC

.100
3 PLC

.100
5 PLC

.200

.225

.085

0 P
5
BSC

.050

PCB EDGE

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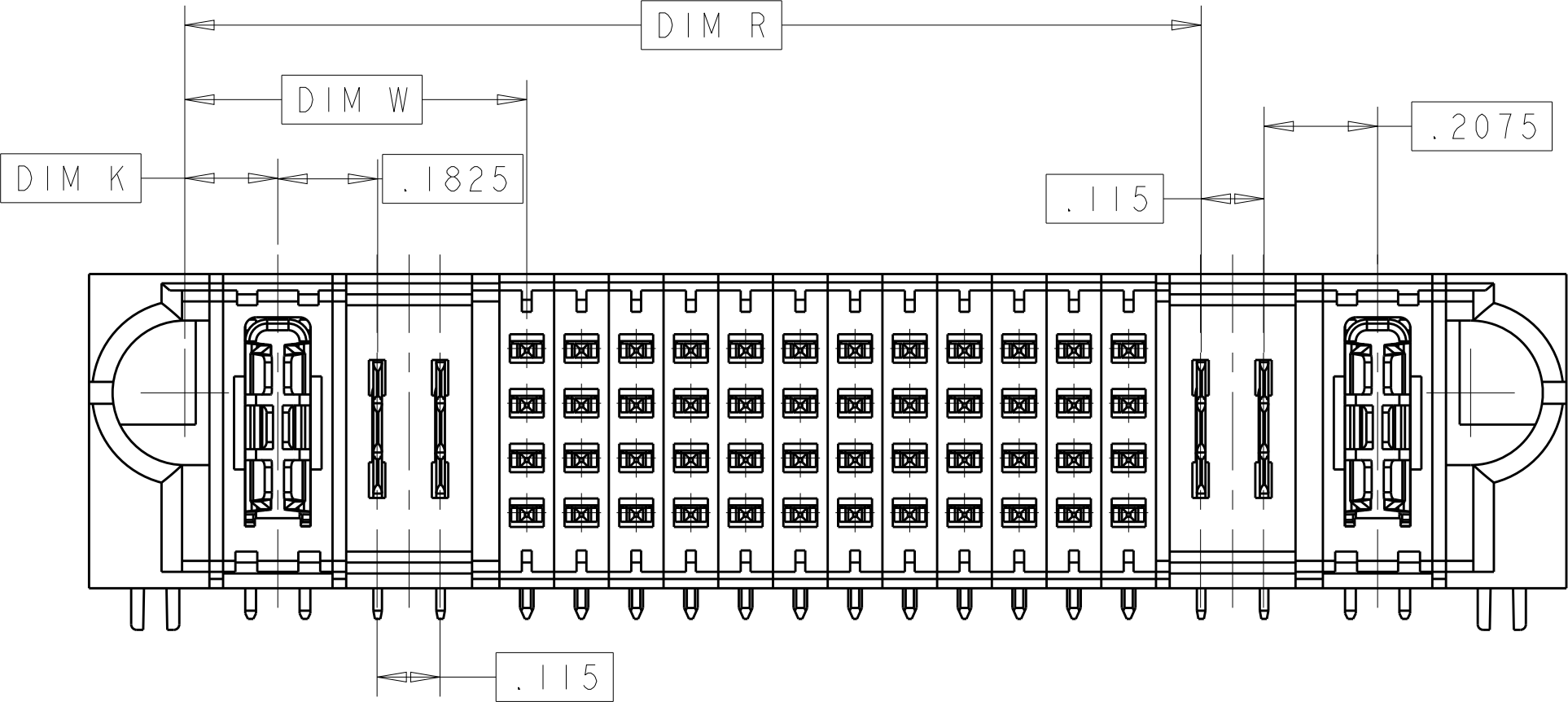
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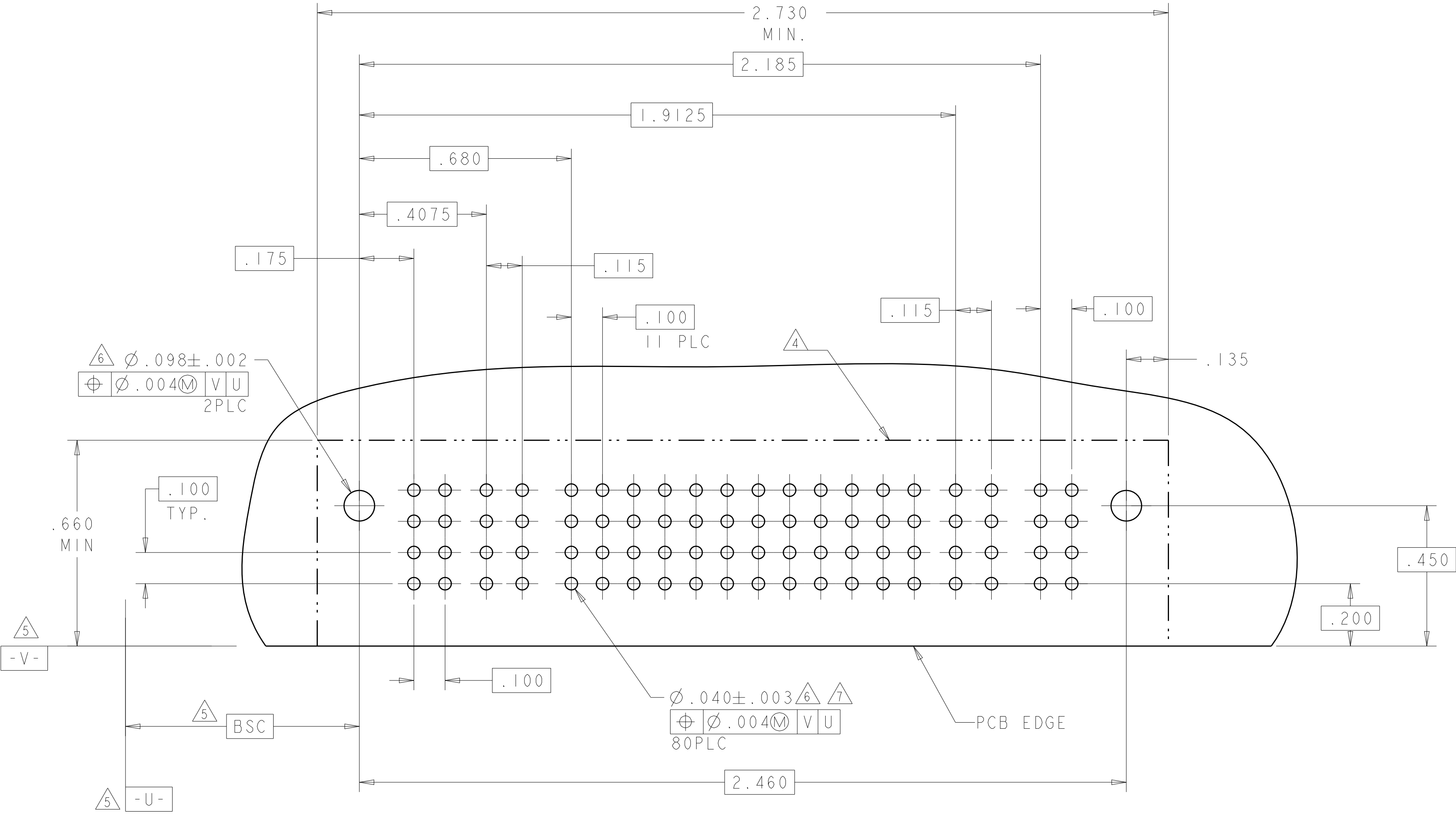
4805 (3/11)

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					
	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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DWN

S.ZHAO

10APR2007

CHK

S.ZHAO

10APR2007

APVD

S.ZHAO

-

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

OF

42

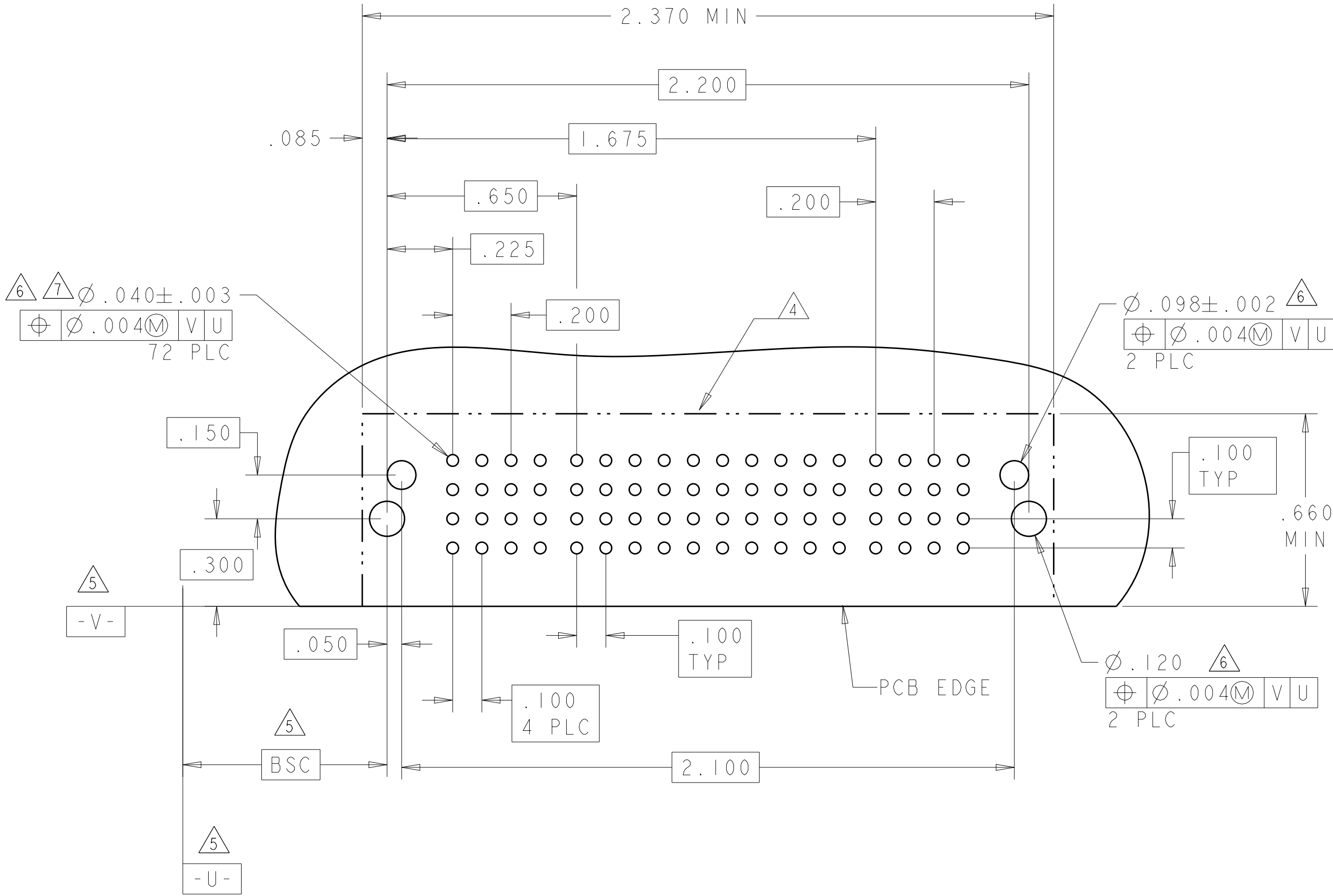
REV

S2

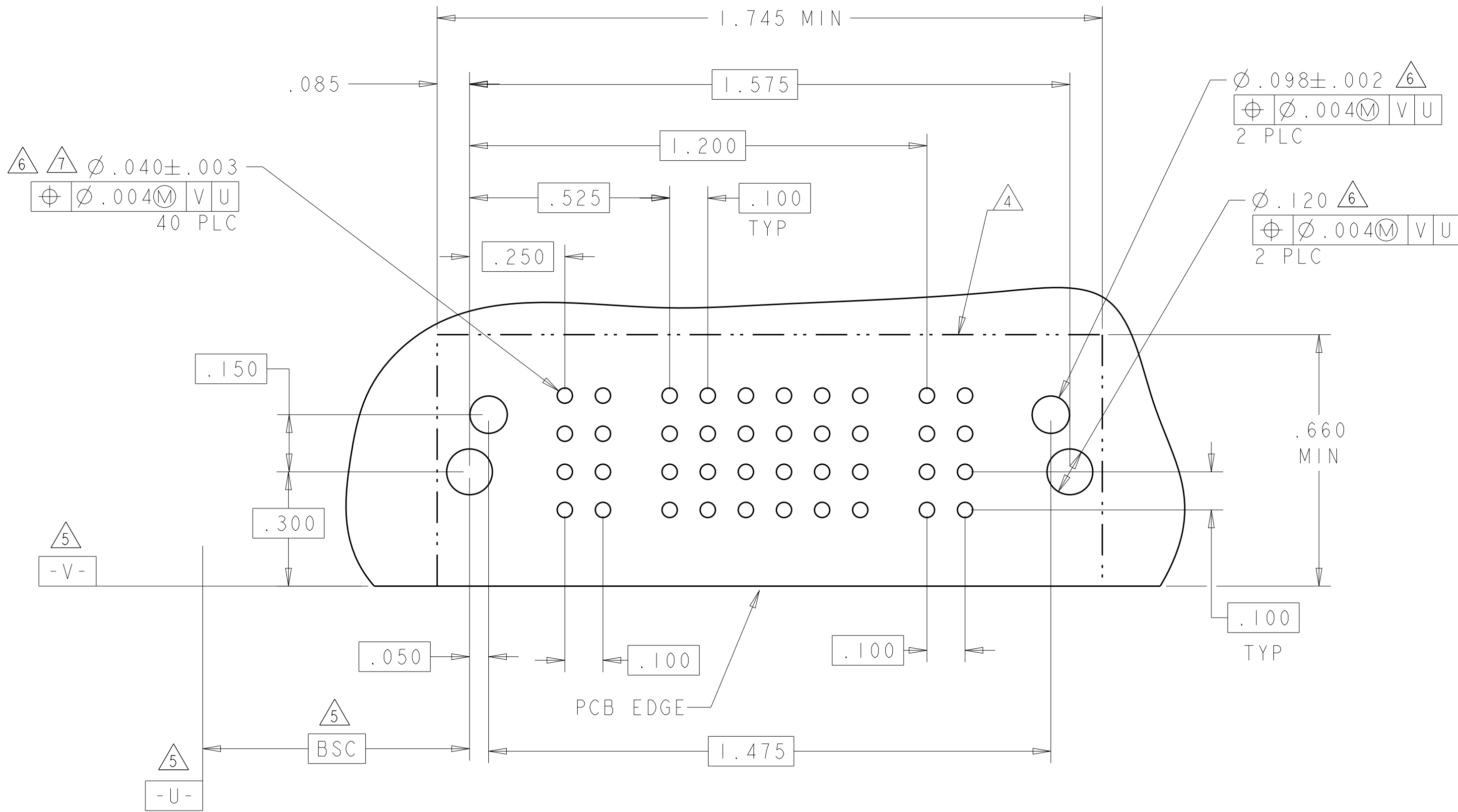
TE Connectivity

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	7	8	9	10	P3	P4	
2-6450830-4	D		TM	TM	J	J	J	J	J	J	J	J	J	J	TM	TM	
	C				K	K	K	K	K	K	K	K	K	K			
	B				N	N	N	N	N	N	N	N	N	N			
A	HD				S	S	S	S	S	S	S	S	S	S			HD
2P + 40S + 2P																	



PART NUMBER	ROWS		POWER		SIGNAL						POWER		
			P1		1	2	3	4	5	6	P2		
2-6450830-6	D		TM	J	J	J	J	J	J	TM			
	K			K	K	K	K	K					
	N			N	N	N	N	N					
	H			S	S	S	S	S					
		HD											
IP + 24S + IP													



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DWN

S. ZHAO

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

14

OF

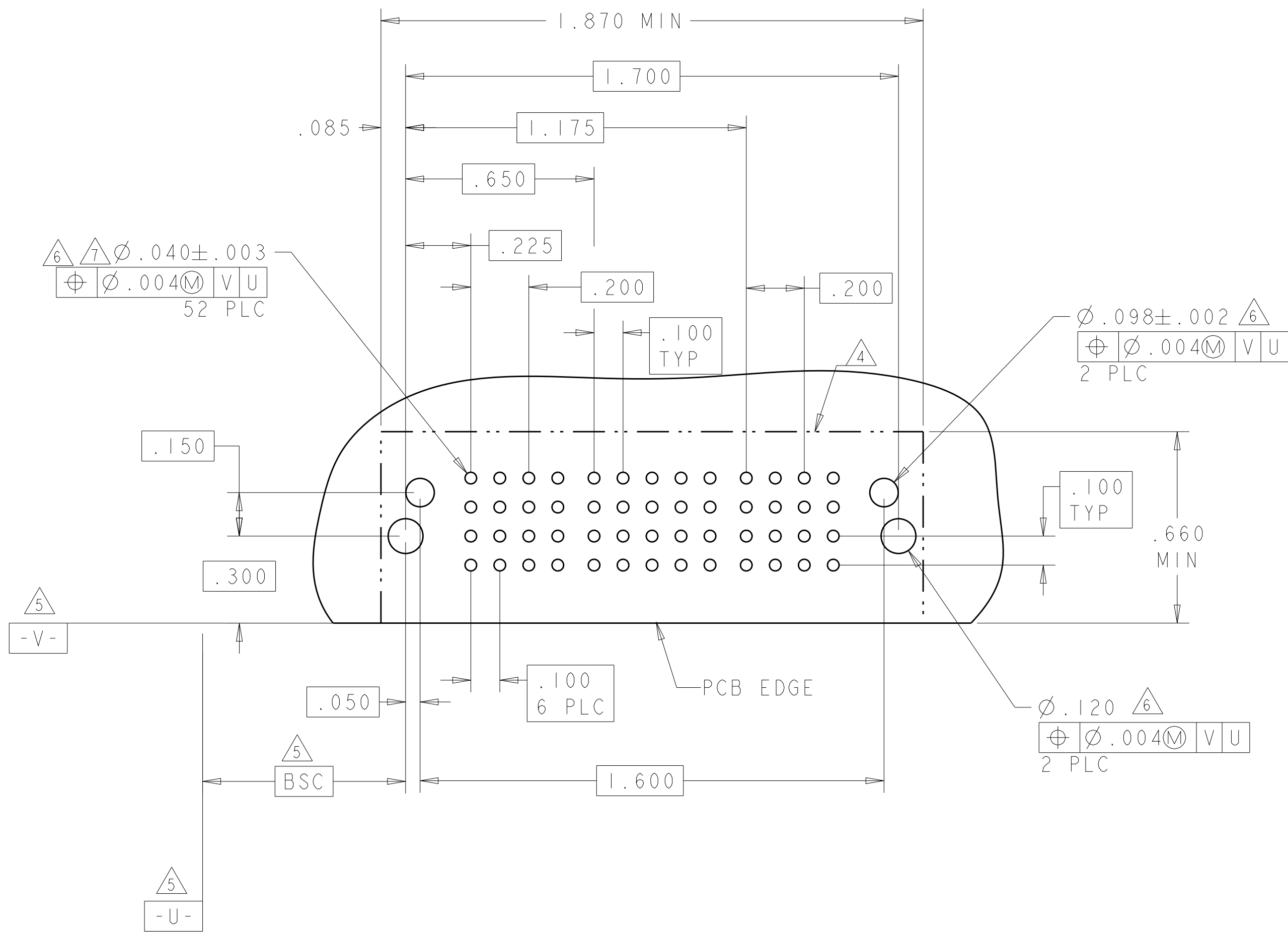
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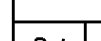
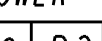
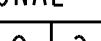
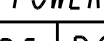
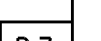
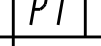
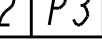
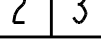
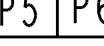
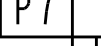
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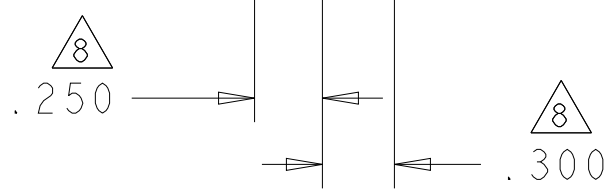
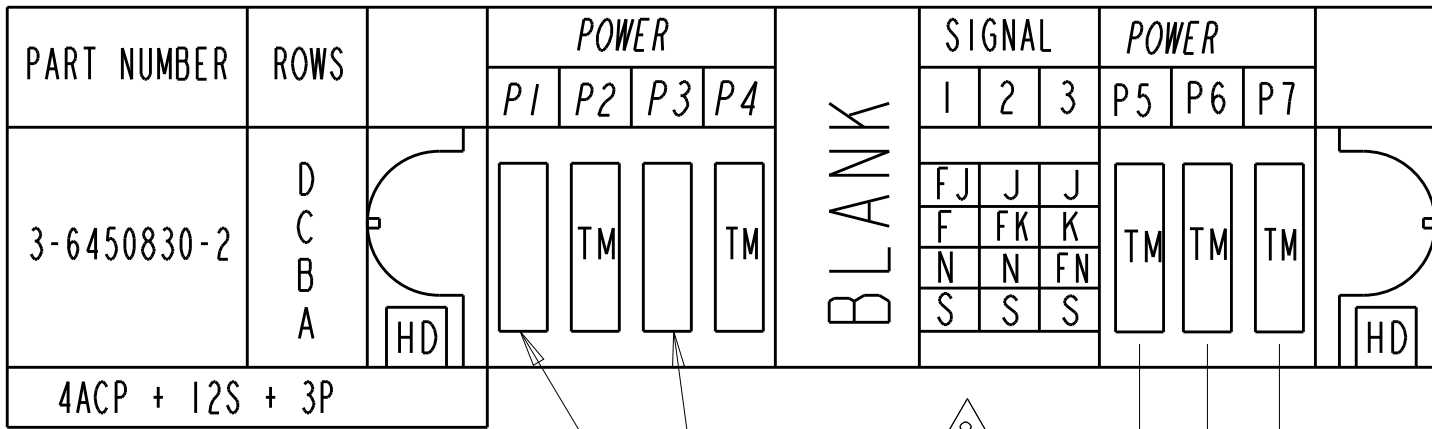
S2

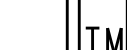
TE Connectivity

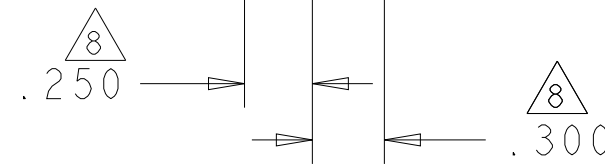
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2-6450830-8	D		TM	TM	J	J	J	J	J	TM	TM	
	K				K	K	K	K				
	N				N	N	N	N				
	S				S	S	S	S				
	A	HD										HD
2P + 20S + 2P												

4805 (3/11)

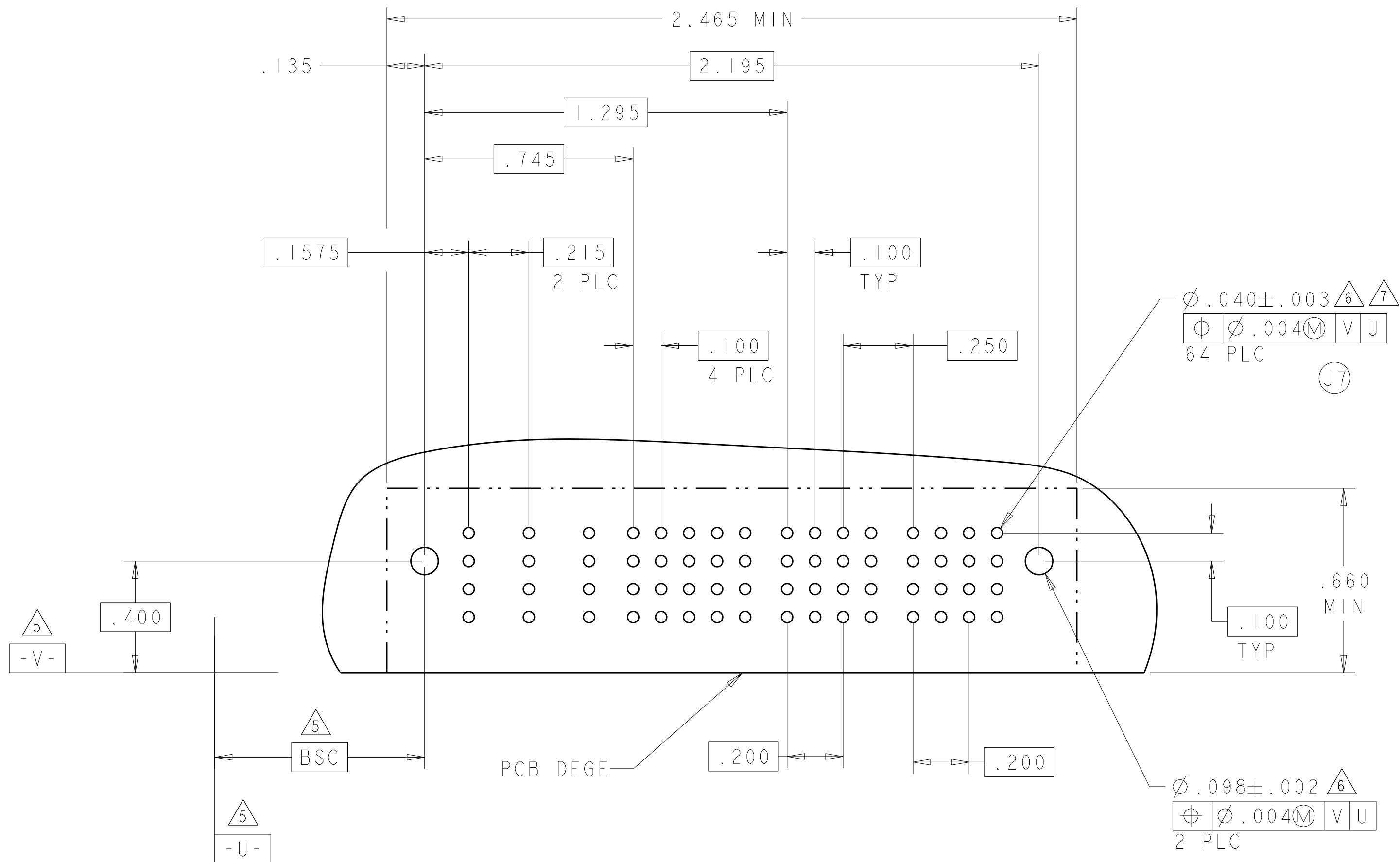
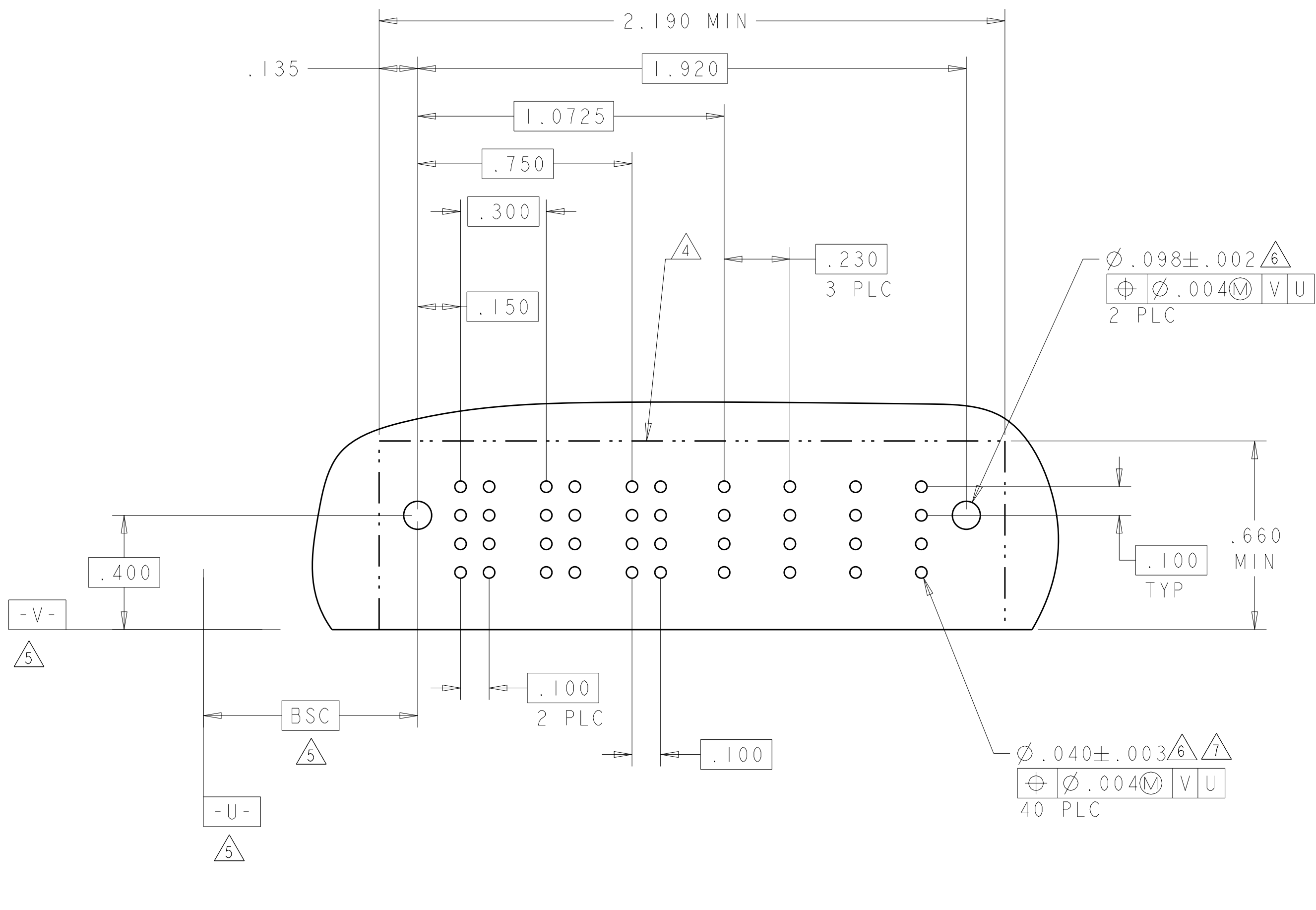
PART NUMBER	ROWS		POWER				BLANK	SIGNAL			POWER													
			P1	P2	P3	P4		1	2	3	P5	P6	P7											
3-6450830-0	D C B A					BLANK																		
4ACP + 12S + 3P			        																					



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

[illegible]

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN S.ZHAO	10APR2007	 TE Connectivity		
DIMENSIONS: INCHES		CHG S.ZHAO				NAME
		APVD S.ZHAO				
TOLERANCES UNLESS OTHERWISE SPECIFIED: 						

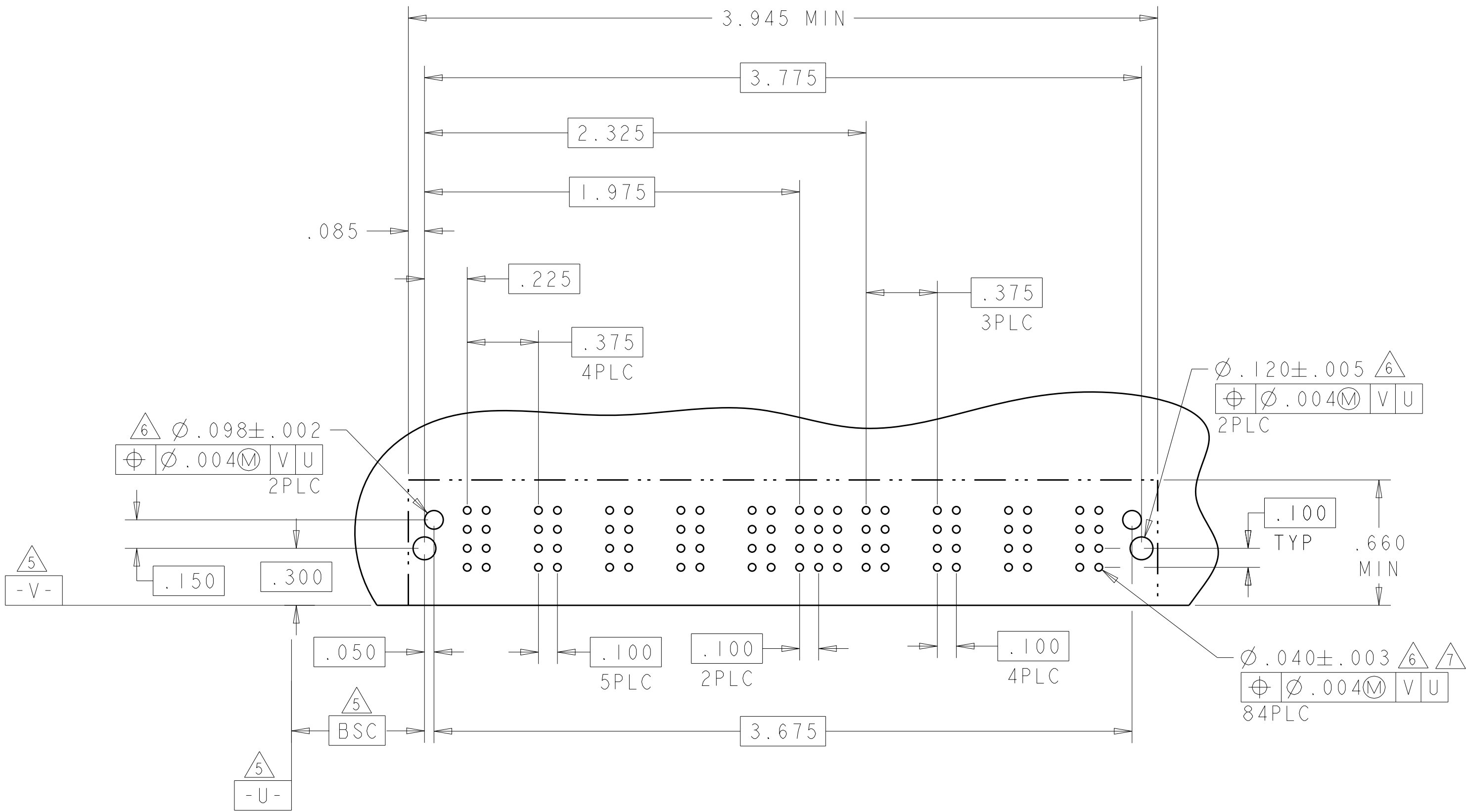
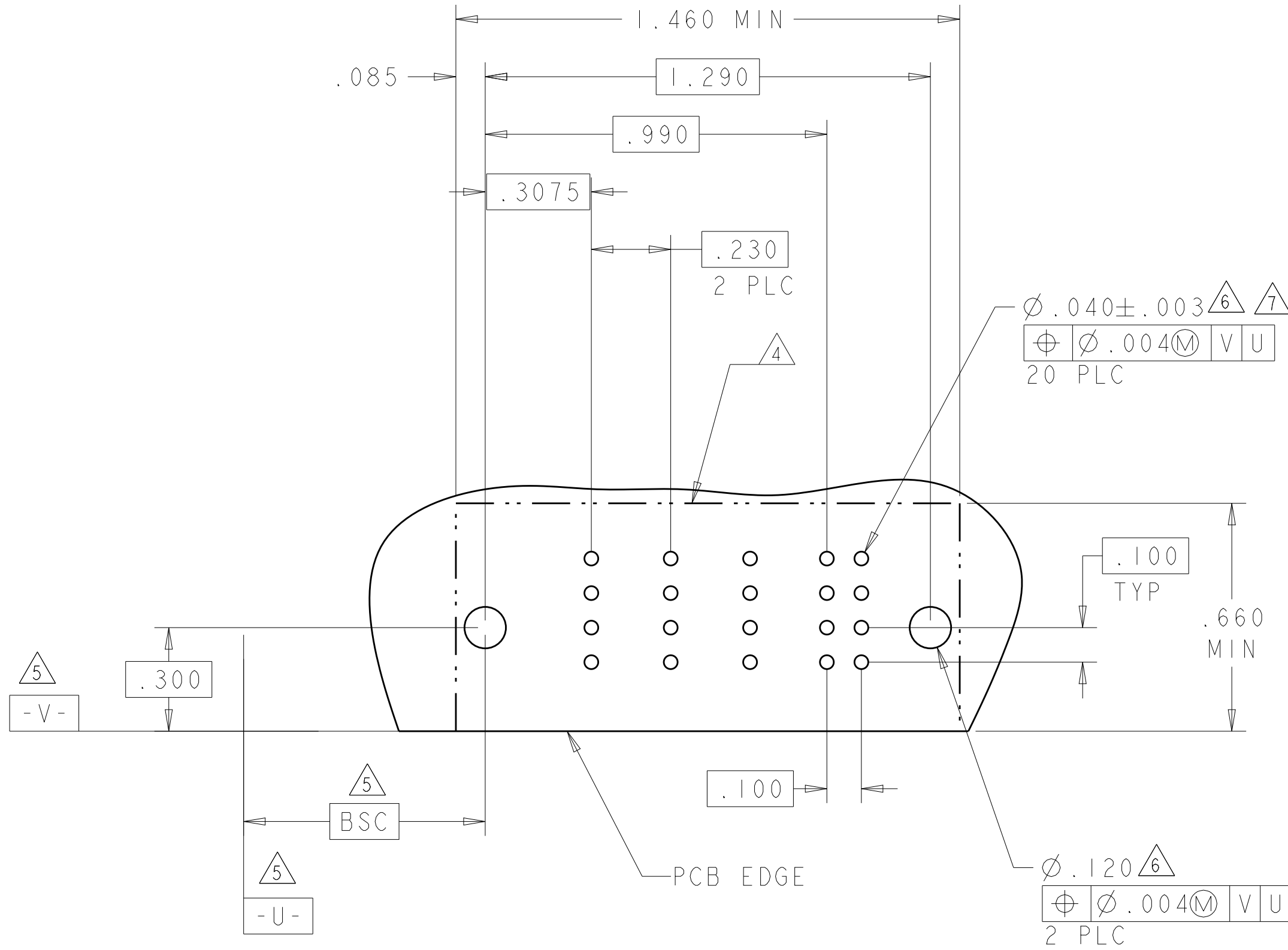
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THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN S_ZHAO 10APR2007		 TE Connectivity	
DIMENSIONS: INCHES		CHG S_ZHAO 10APR2007			
		APVD S_ZHAO -			
		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME RIGHT ANGLE WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE	
		0 PLC ±.			
		1 PLC ±.			
		2 PLC ±.01			
		3 PLC ±.005		PRODUCT SPEC 108-2292	
		4 PLC ±.0020			
		ANGLES ±°			
		FINISH			
MATERIAL		WEIGHT -		SIZE CAGE CODE DRAWING NO RESTRICTED TO A 100779 © 6450830 -	
CUSTOMER DRAWING		SCALE 4:1		SHEET 18 OF 42 REV S2	

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															



THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN S.ZHAO 10APR2007
CHK S.ZHAO 10APR2007
APVD S.ZHAO -

TE Connectivity

DIMENSIONS:
INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±.01
1 PLC ±.01
2 PLC ±.01
3 PLC ±.01
4 PLC ±.01
5 PLC ±.01
6 PLC ±.01
7 PLC ±.01
8 PLC ±.01
9 PLC ±.01
10 PLC ±.01
11 PLC ±.01
12 PLC ±.01
13 PLC ±.01
14 PLC ±.01
15 PLC ±.01
16 PLC ±.01
17 PLC ±.01
18 PLC ±.01
19 PLC ±.01
20 PLC ±.01

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

SCALE
4:1

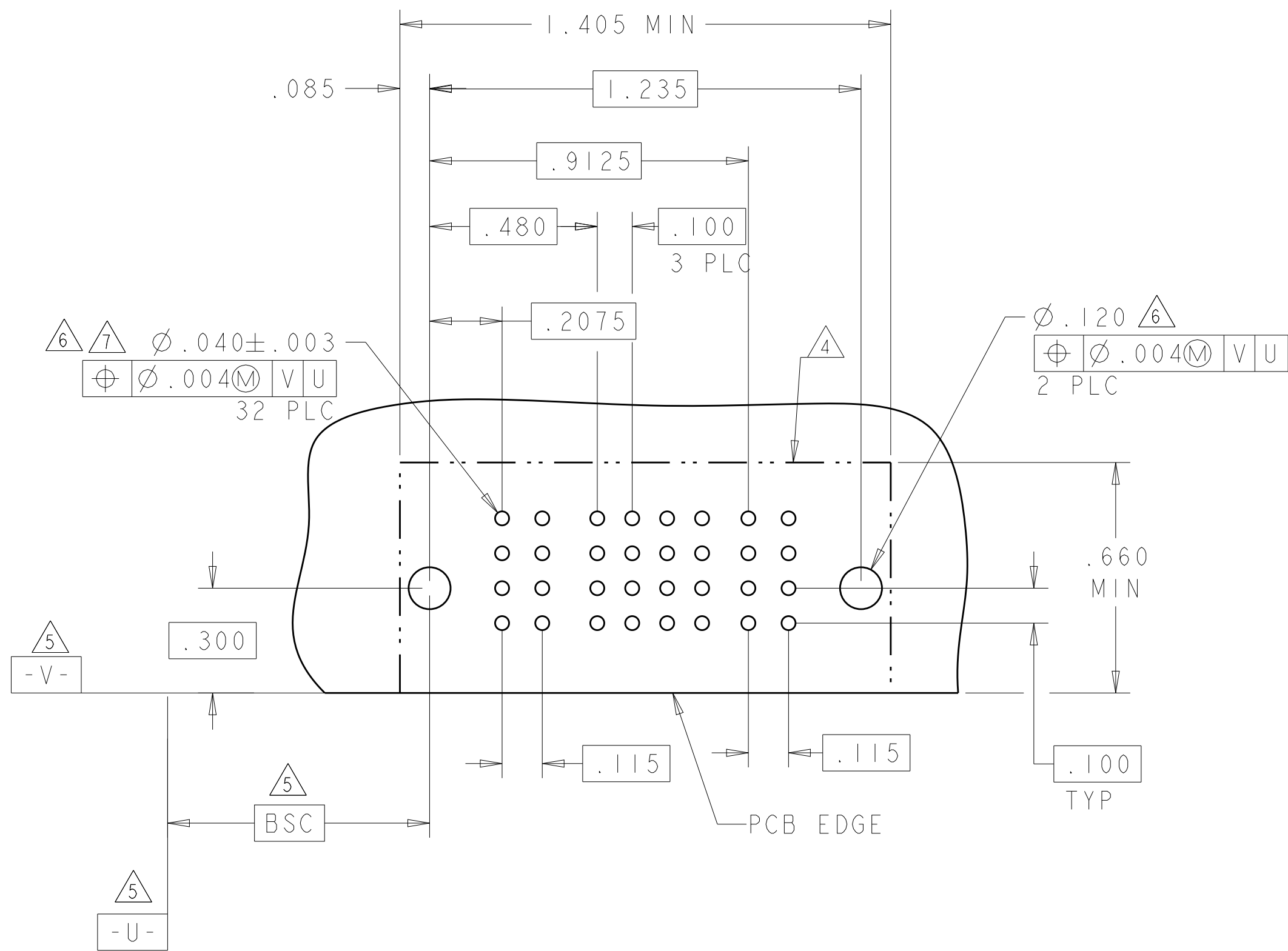
SHEET
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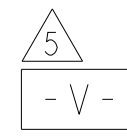
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REV
S2

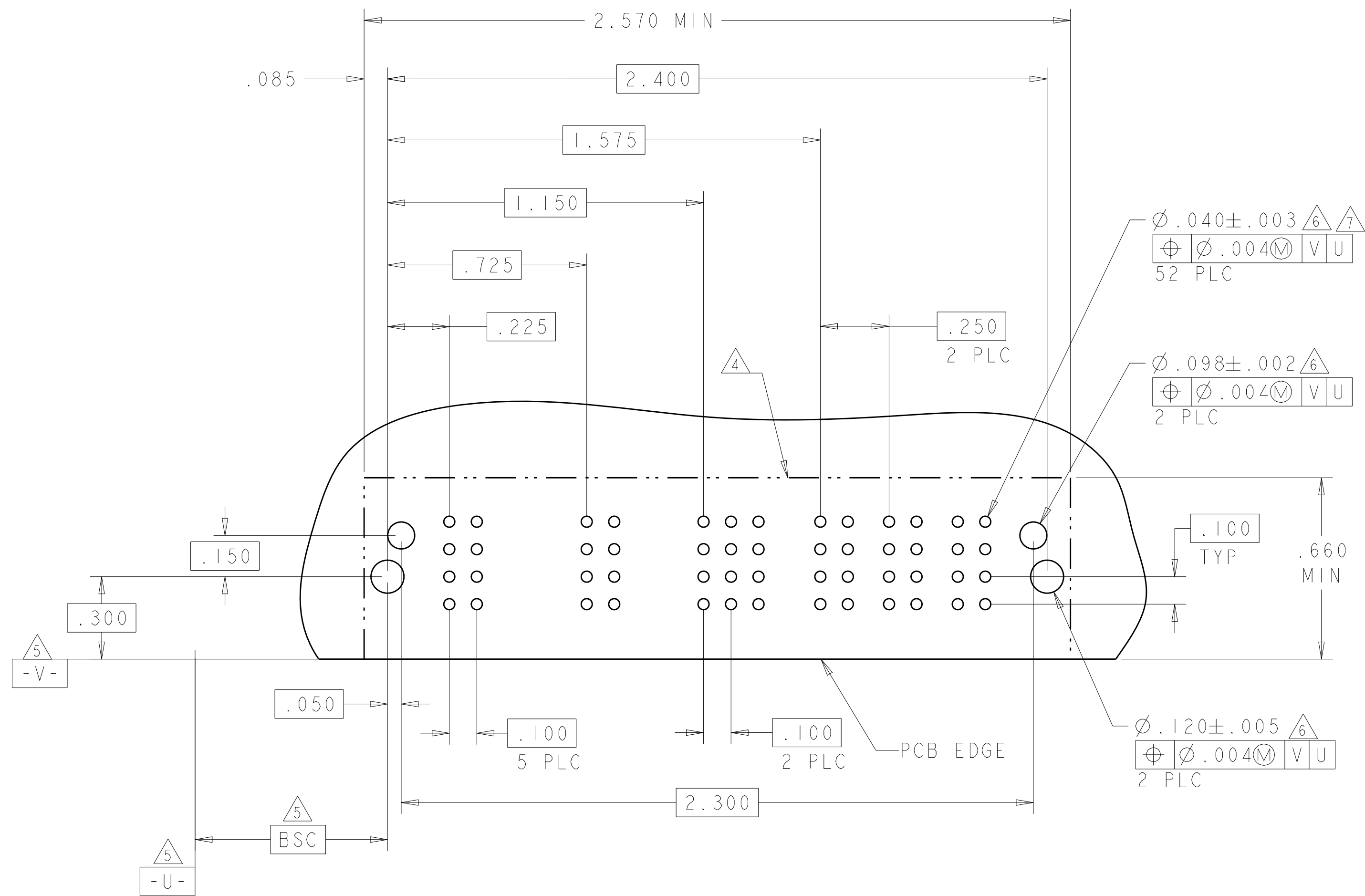
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	C				K	K	K	K			
	B				N	N	N	N			
	A				S	S	S	S			

2LP + 16S + 2LP

4805 (3/11)

4805 (3/11)

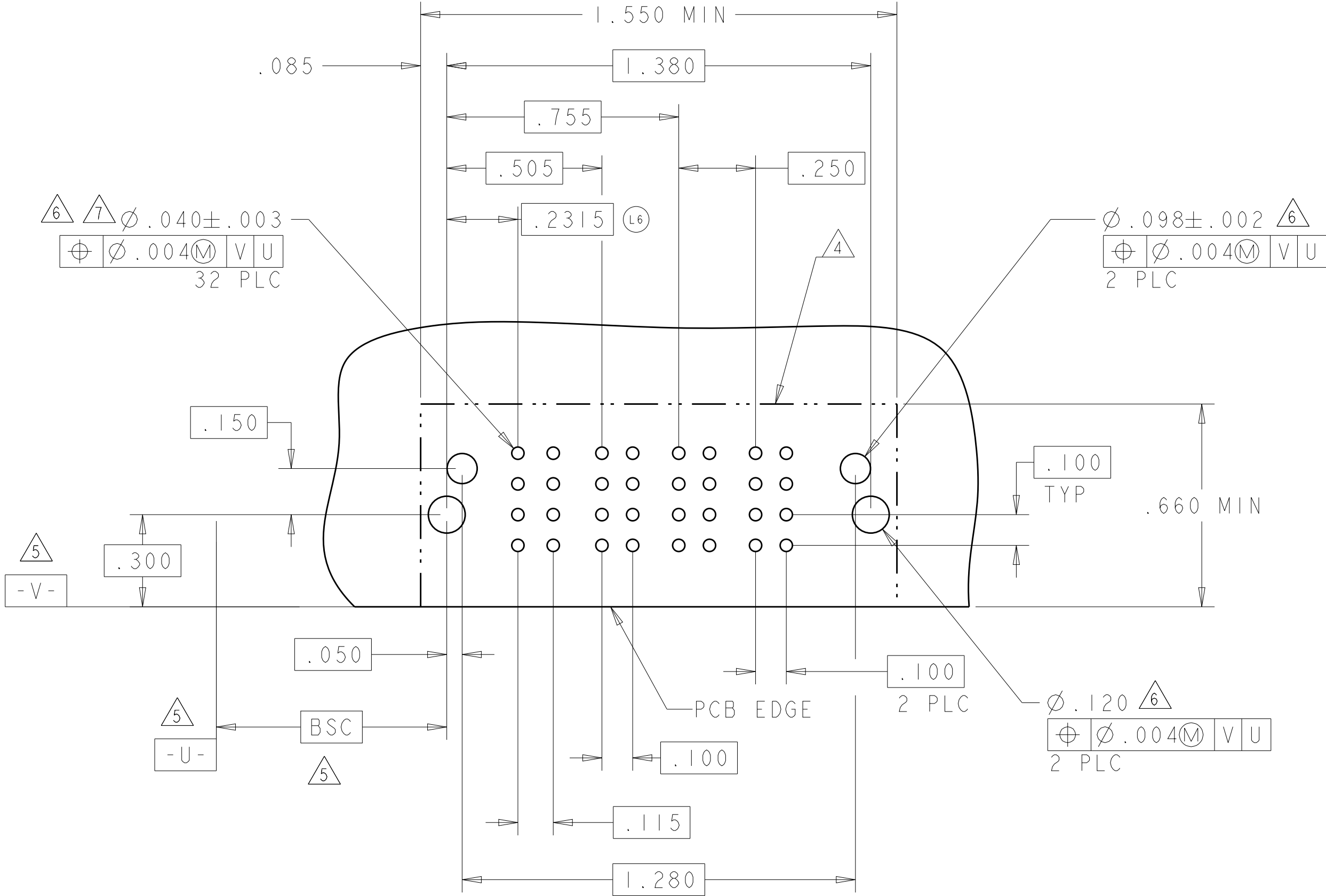
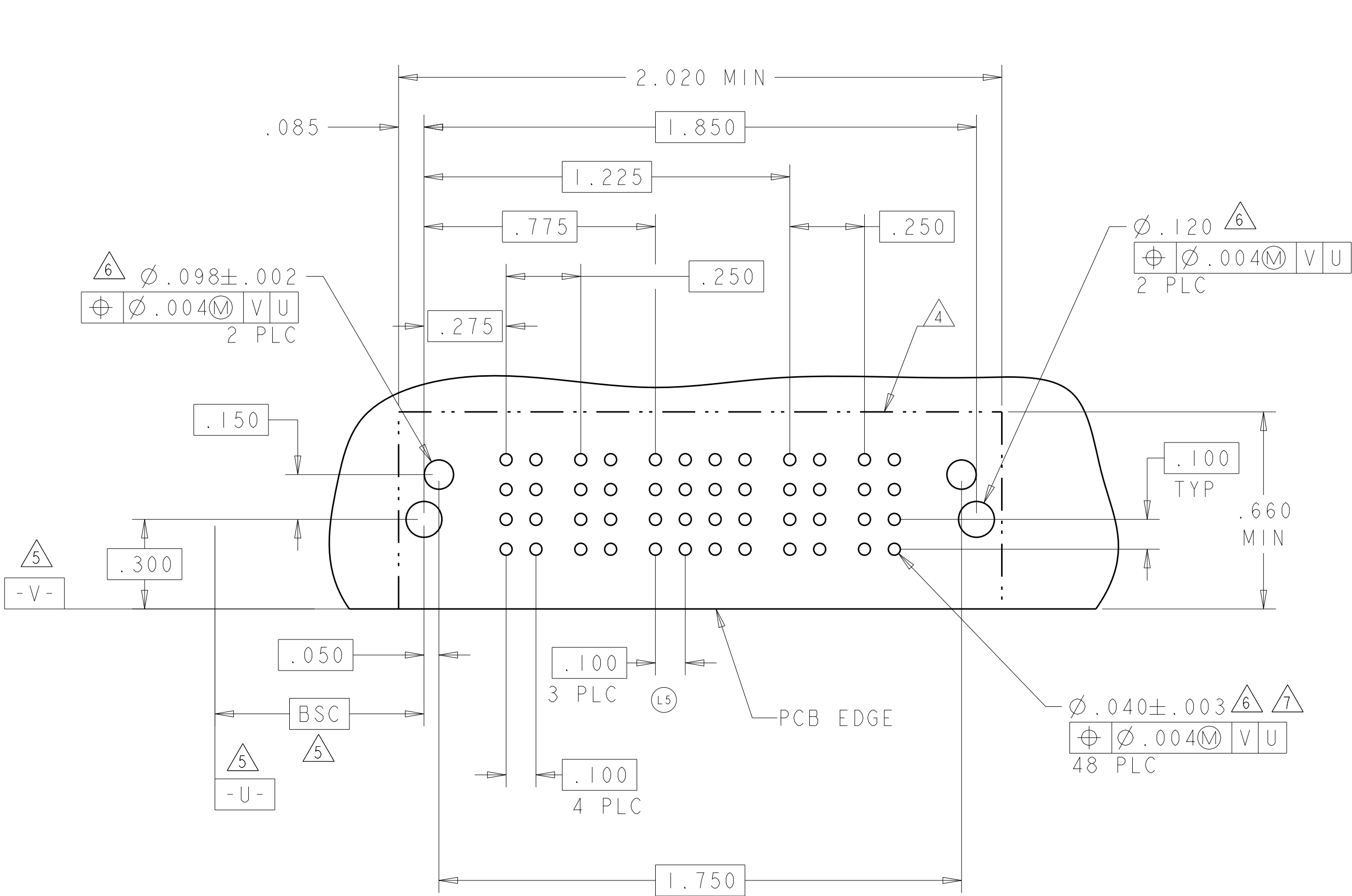
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4-6450830-5	D		TM		TM			J	J	J		TM	TM	TM	
	C							K	K	K					
	B							G	G	G					
	A							S	S	S					
3P + 24S + 3P		HD													

4805 (3/11)

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

PART NUMBER	ROWS		POWER		SIGNAL				POWER		
			P1	P2	1	2	3	4	P3	P4	
4-6450830-6	D C B A				J	J	J	J			
					FK	FK	FK	FK			
					G	G	G	G			
					S	S	S	S			
2P + 16S + 2P											

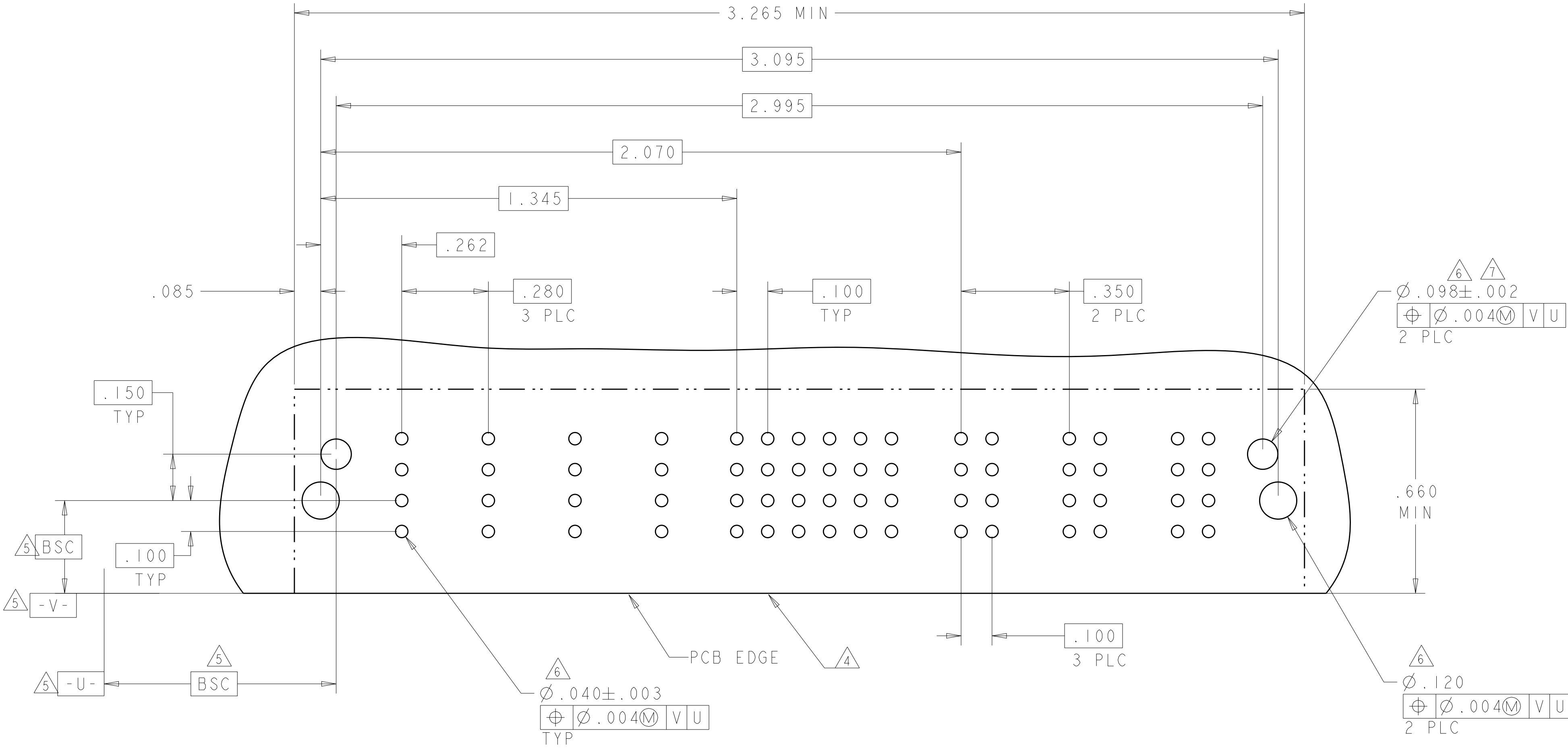
PART NUMBER	ROWS		POWER		SIGNAL		POWER		
			P1	P2	1	2	P3	P4	
4-6450830-7	D C B A		LM	LM	F	J	TM	TM	
					K	E			
					N	N			
					S	S			
2LP + 8S + 2P			HD				HD		



LOC	DIST	REVISIONS					
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	5	6	PI	P2	P3	
4-6450830-8	D C B A		LM		LM		LM		LM		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				
8LP + 24S + 3P																				

NO CONTACT LOADED



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN S.ZHAO	10APR2007		
		CHK S.ZHAO	10APR2007		
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
		0 PLC	±"	PRODUCT SPEC	
		1 PLC	±.01	108-2292	
		2 PLC	±.01	APPLICATION SPEC	
		3 PLC	±.005	114-13251	
MATERIAL		4 PLC	±.0020	WEIGHT	
		ANGLES	±2°	CUSTOMER DRAWING	
		FINISH	-	SCALE 4:1	
				SHEET 24 OF 42	
				REV S2	

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

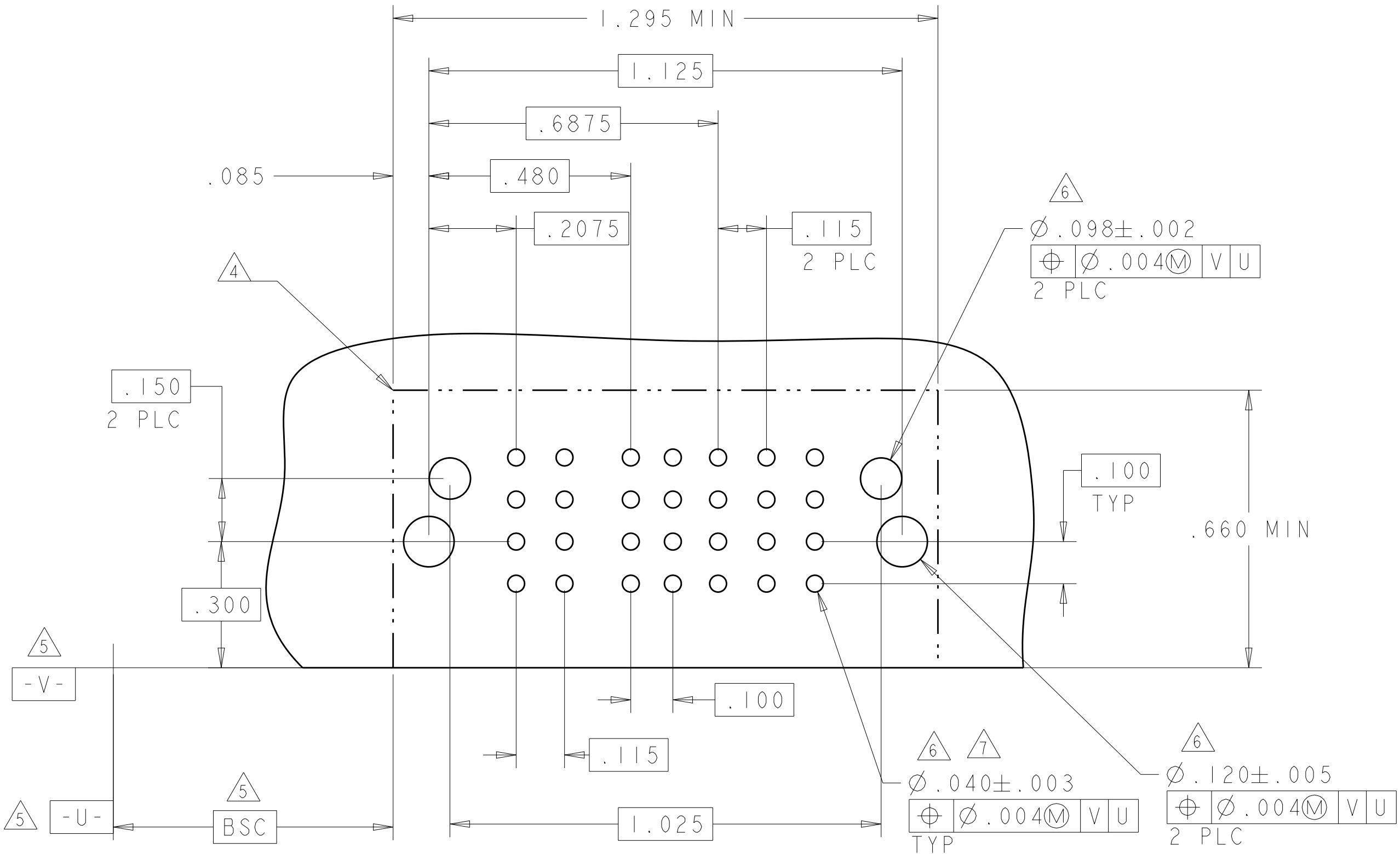
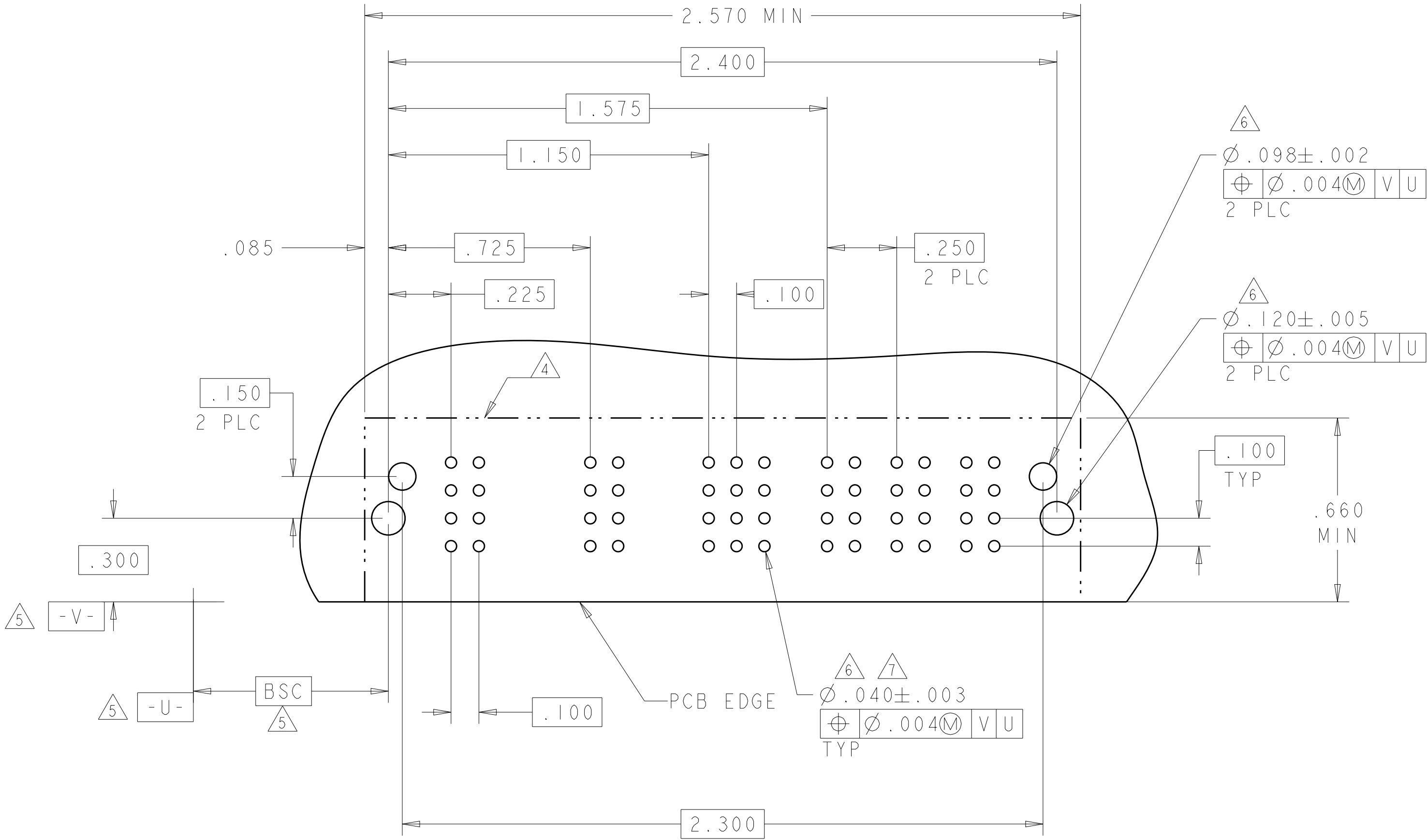
L 8

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															

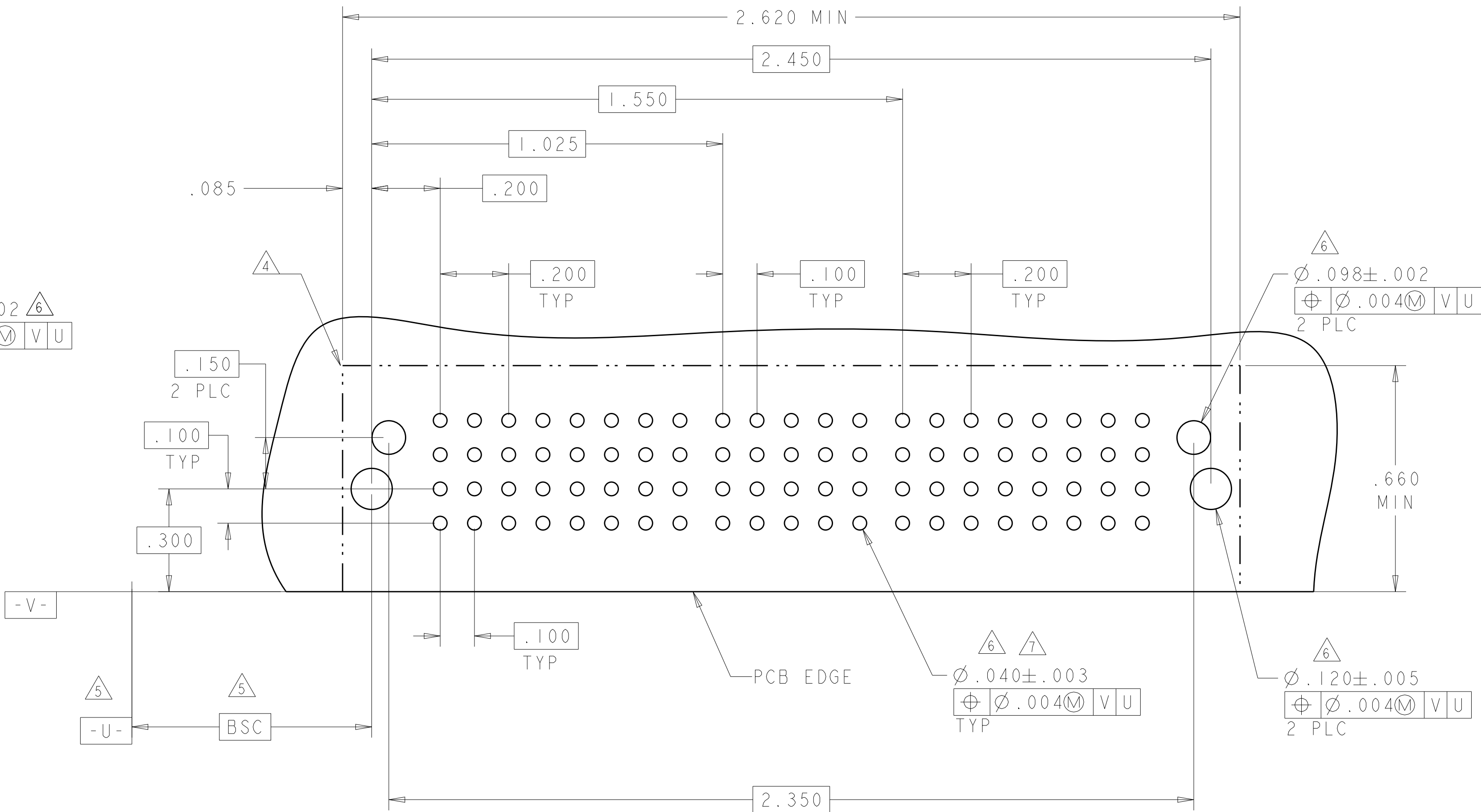
NO CONTACT LOADED

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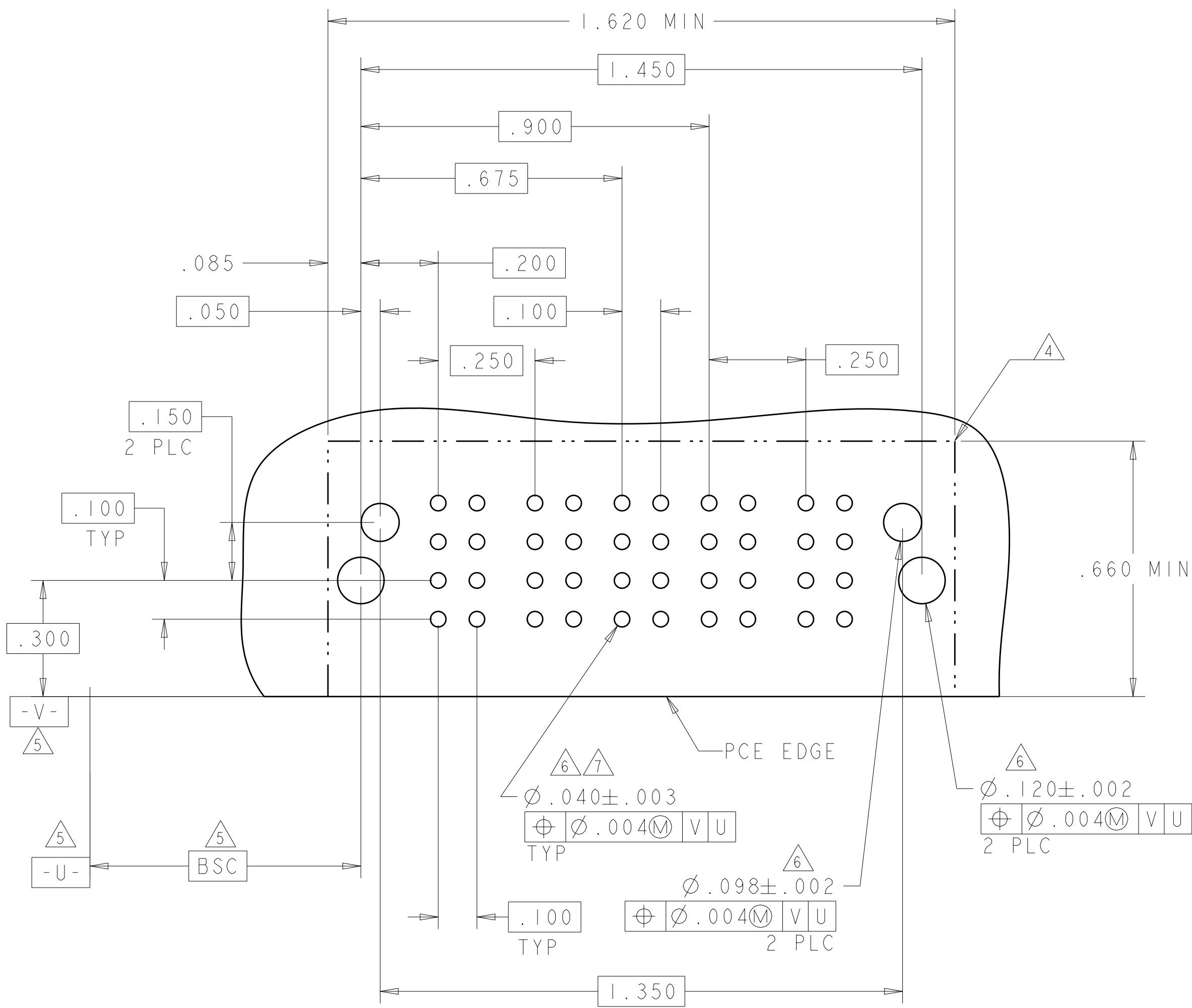
PART NUMBER	ROWS		POWER		SIGNAL		POWER			
			P1	P2	1	2	P3	P4	P5	
5-6450830-0	D		LM	LM	J	J	LMF	LMF	LMF	
	C				K	K				
	B				N	N				
	A				S	S				
2LP + 8S + 3LP										



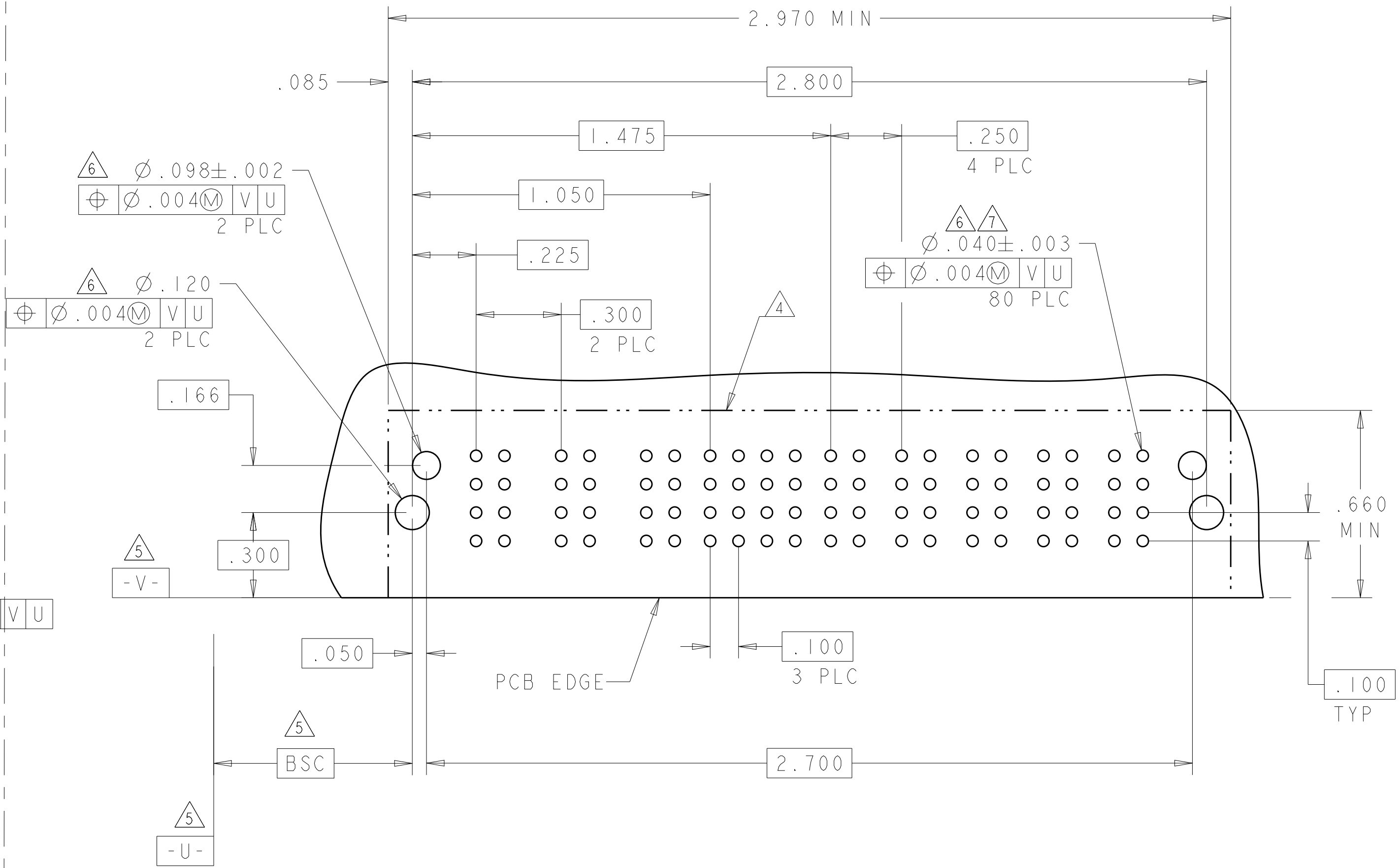
PART NUMBER	ROWS		POWER				SIGNAL					POWER				
			P1	P2	P3	P4	1	2	3	4	5	P5	P6	P7	P8	
5-6450830-2	D		TM	TM	TM	TM	J	J	J	J	J	TM	TM	TM	TM	
	K						K	K	K	K						
	N						N	N	N	N						
	H	S					S	S	S							
A	HD															HD
4P + 20S + 4P																

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			HD
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															

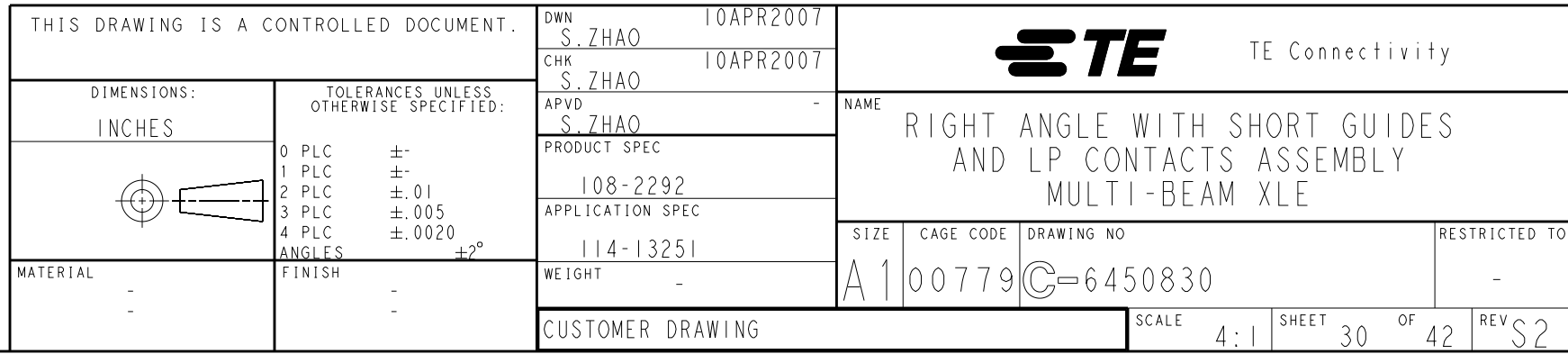
4805 (3/11)

This mechanical drawing illustrates the dimensions and tolerances for a PCB edge connector. The drawing includes the following specifications:

- Overall Dimensions:**
 - Top width: 3.070 MIN
 - Bottom width: 2.800
 - Left side width: .085
 - Right side width: .660 MIN
- Internal Spacing and Features:**
 - Top spacing: 2.900, 1.825, 1.200, .250 (3 PLC), .100 TYP, .250 (3 PLC), .225
 - Bottom spacing: .150, .300, .050 (2 PLC), .100 (4 PLC), .100 (4 PLC), .100 TYP
 - PCB EDGE label with a leader line pointing to the bottom edge.
- Feature Callouts and Tolerances:**
 - Top left: $\phi .040 \pm .003$ (Feature 6), $\phi .004$ (Feature 7) (192 PLC)
 - Top right: $\phi .098 \pm .002$ (Feature 6), $\phi .004$ (2 PLC)
 - Bottom right: $\phi .120$ (Feature 6) (OPTIONAL), $\phi .004$ (OPTIONAL)
- Other Labels:**
 - 5 -V-
 - 5 -U-
 - 5 BSC

4805 (3/11)

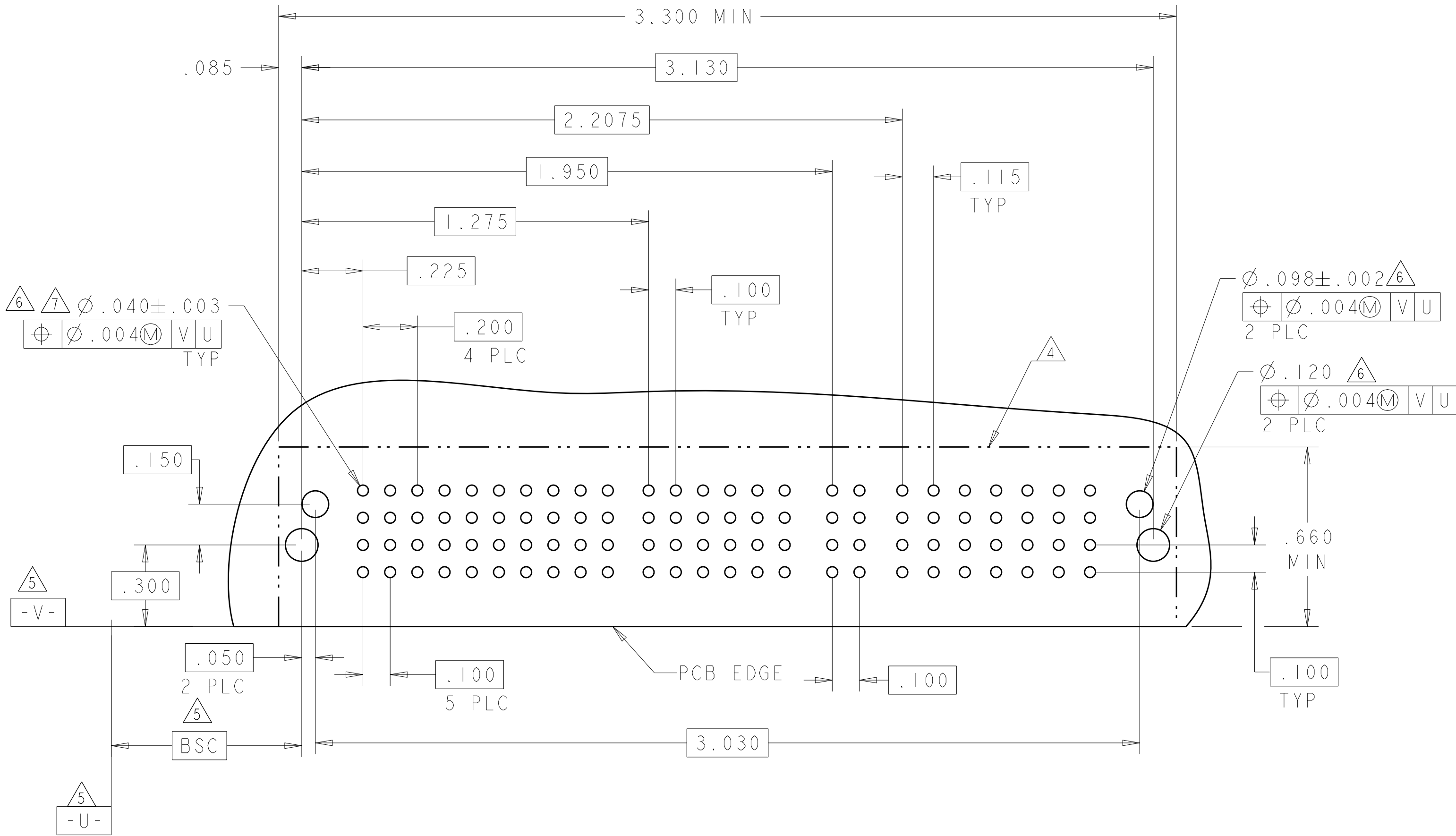
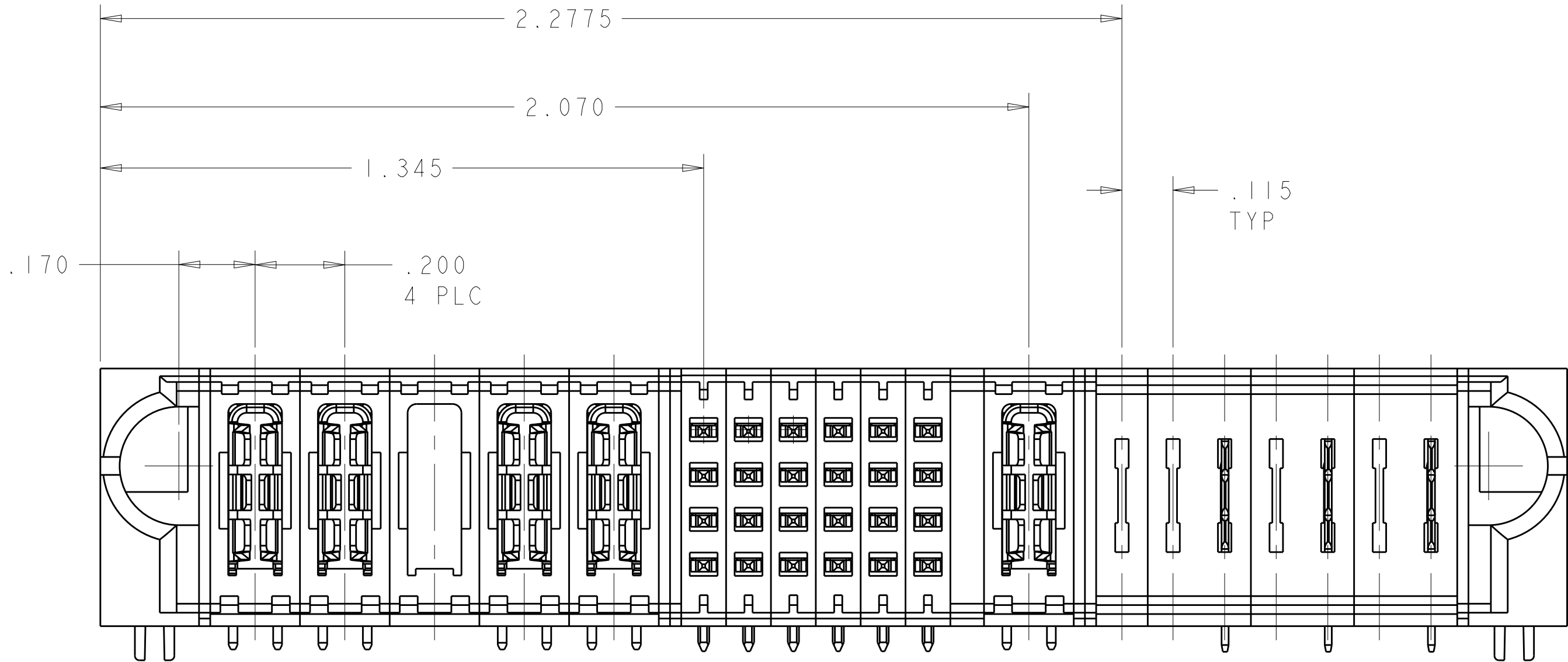
N6



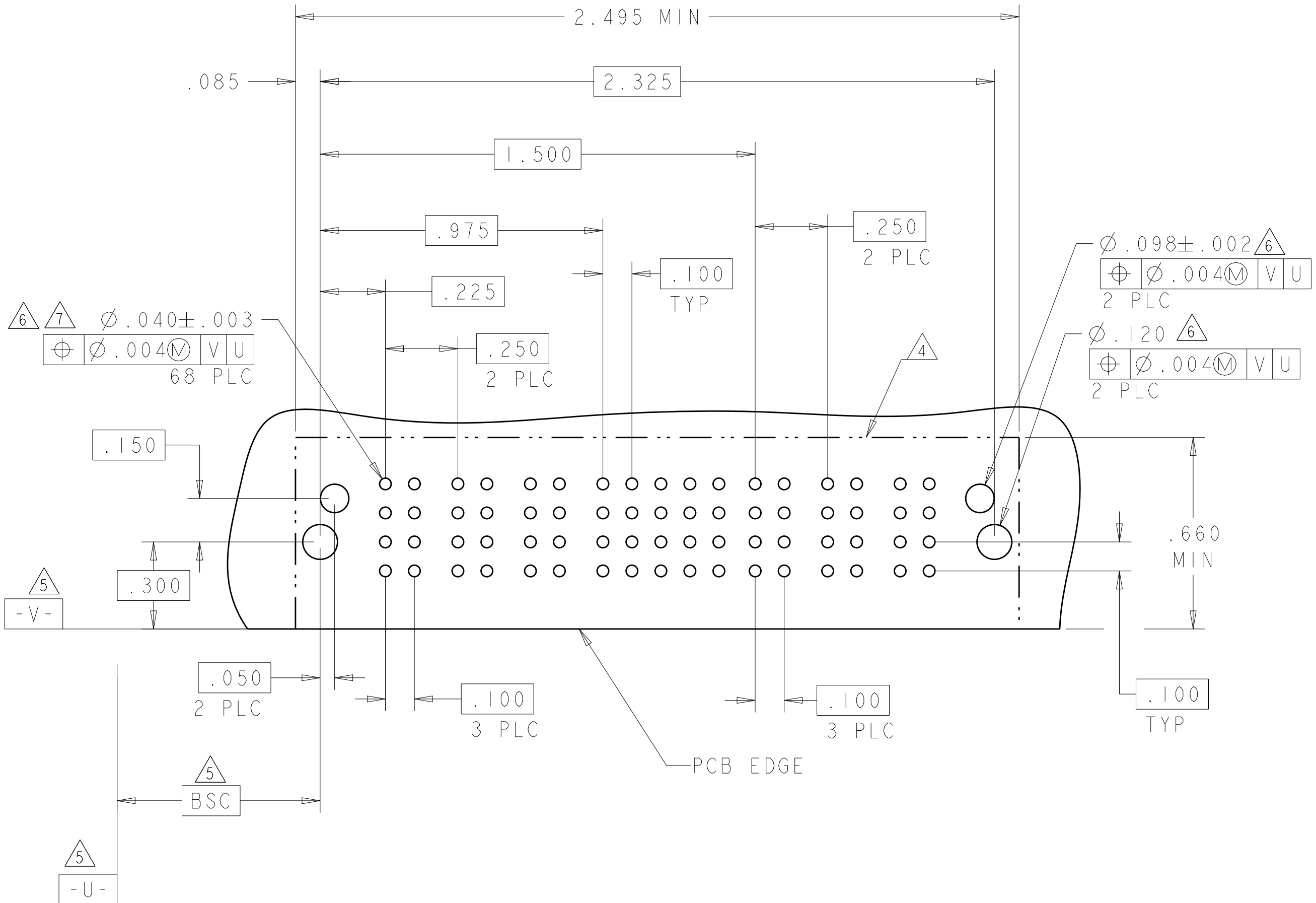
LOC		DIST		REVISIONS				
ES	00	P	LTR	DESCRIPTION		DATE	DWN	APVD
		-		SEE SHEET 1		-	-	-

PART NUMBER	ROWS		POWER					SIGNAL						POWER	LOW POWER							
			P1	P2	P3	P4	P5	1	2	3	4	5	6	P6	LP1	LP2	LP3	LP4	LP5	LP6	LP7	
6-6450830-2	D		TM	TM	TM	TM	J	J	J	J	J	J	TM			LM		LM		LM		
	C						K	K	K	K	K	K										
	B						N	N	N	N	N	N										
	A						S	S	S	S	S	S										
5HDP + 24S + 1P + 7LP																						

NO CONTACTS LOADED



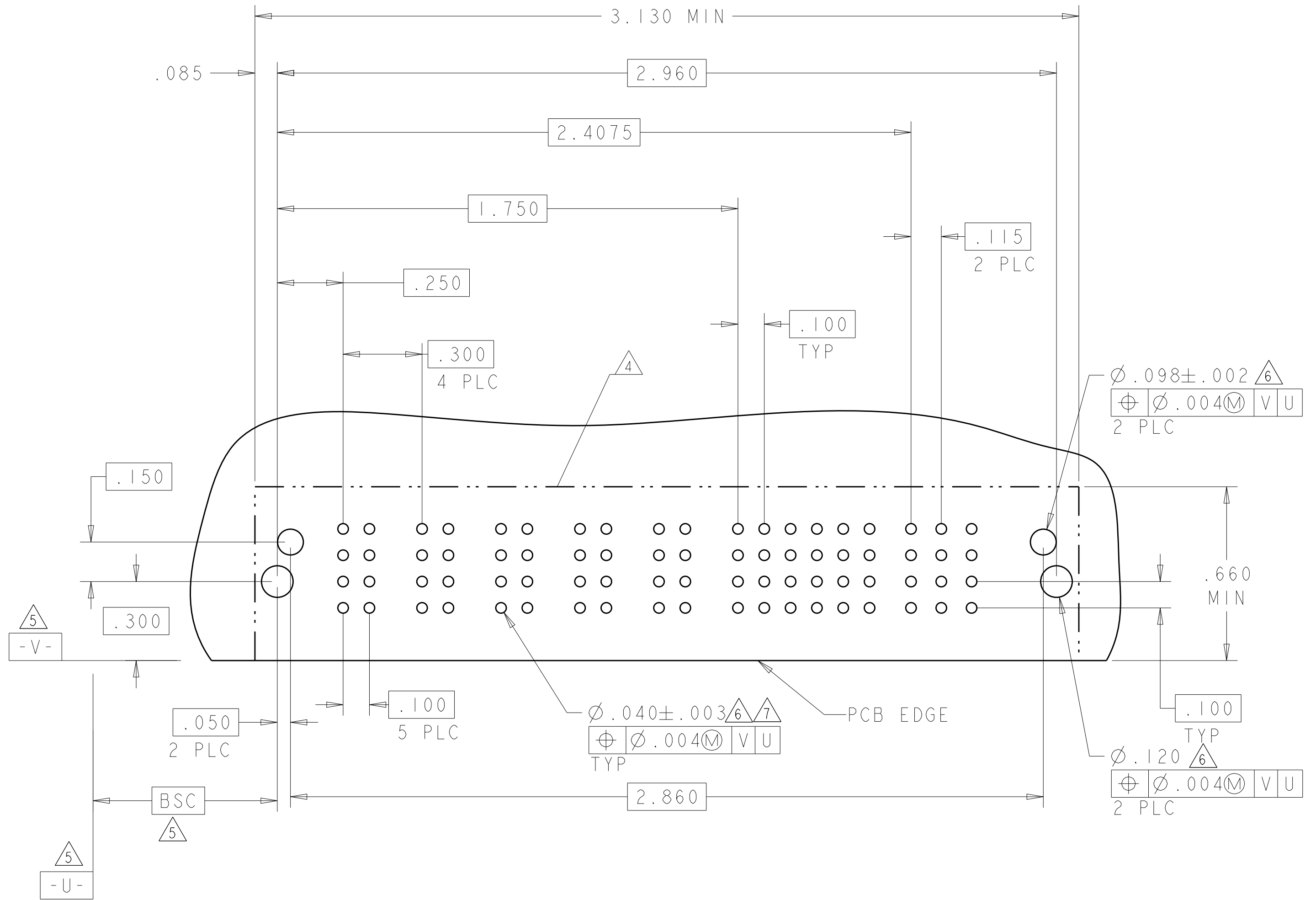
PART NUMBER	ROWS		POWER			SIGNAL					POWER			
			P1	P2	P3	1	2	3	4	5	P4	P5	P6	
6-6450830-4	D		TM	TM	TM	J	J	J	J	J	TM	TM	TM	
	C					K	K	K	K	K				
	B					N	N	N	N	N				
	A					HD	S	S	S	S				
3P + 20S + 3P														



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN S. ZHAO	10APR2007	TE Connectivity	
		CHK S. ZHAO	10APR2007		
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
		0 PLC ±.01		PRODUCT SPEC	
		1 PLC ±.01		108-2292	
		2 PLC ±.01		APPLICATION SPEC	
		3 PLC ±.005		114-13251	
		4 PLC ±.002		WEIGHT	
		ANGLES ±.002		CUSTOMER DRAWING	
MATERIAL		FINISH		SCALE	
				4:1	
				SHEET 31 OF 42	
				REV S2	

PART NUMBER	ROWS		POWER					SIGNAL						POWER				
			P1	P2	P3	P4	P5	1	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		
	C							K	K	K	K	K	K					
	B							N	N	N	N	N	N					
	A							S	S	S	S	S	S					
5ACP + 24S + 4LP																		

The top view drawing shows a rectangular PCB with rounded corners. Key dimensions include a total width of 3.130 MIN and a central section width of 2.960. A series of circular holes are arranged in rows across the center. Various callouts specify hole diameters such as $\varnothing .098 \pm .002$, $\varnothing .004$, and $\varnothing .040 \pm .003$. Material specifications like "2 PLC" and "4 PLC" are indicated near specific features. The label "PCB EDGE" points to the outer boundary of the board.



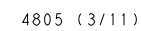
Technical drawing of a PCB layout for a 100-pin connector. The drawing shows a top-down view of the PCB with a grid of 100 pins (50 on each side) and various dimensions. Key dimensions include a total width of 5.670, a total length of 5.500, and a pin pitch of 0.100. The drawing also shows the location of the PCB edge, the location of the 100-pin connector, and the location of the 100-pin connector pins. The drawing includes a title block with the text '100 PIN CONNECTOR' and a date of '10/10/2010'.

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[illegible][illegible]

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:		NAME RIGHT ANGLE WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE	
0 PLC ± 1 PLC ± 2 PLC ±.01 3 PLC ±.005 4 PLC ±.0020 ANGLES ±?		PRODUCT SPEC 108-2292 APPLICATION SPEC 114-13251			
MATERIAL -		WEIGHT -			
FINISH -		SIZE A		CAGE CODE 00779	DRAWING NO. C-6450830
		CUSTOMER DRAWING		SCALE 4:1	SHEET 34 OF 42
				REV S2	RESTRICTED TO -

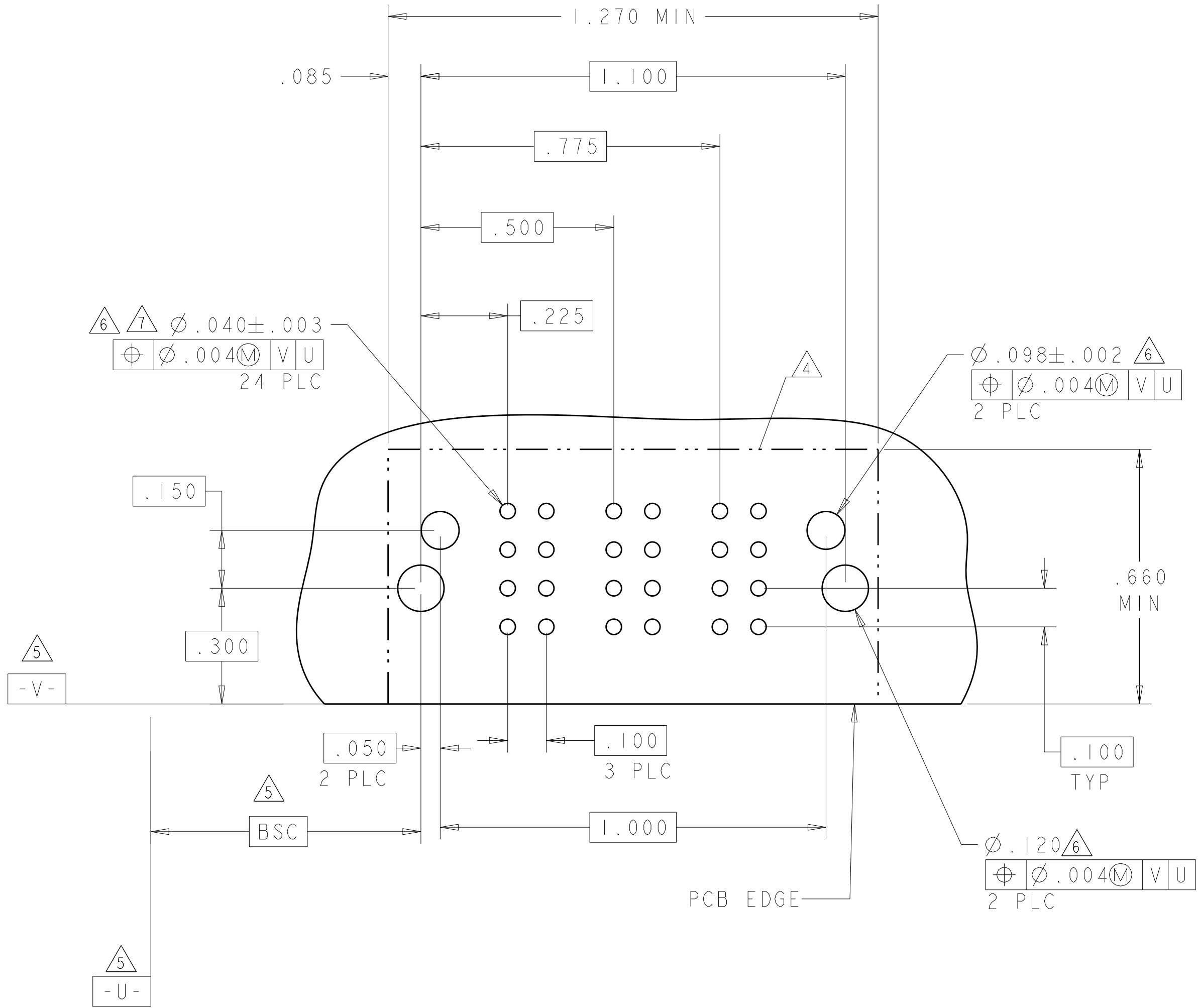
Timing diagram for the 4-bit parallel adder showing the propagation of a carry signal through four full adder stages. The diagram shows the carry-in (C_{in}) and carry-out (C_{out}) signals for each stage, with delays of .300, .350, .250, and .275 units indicated.



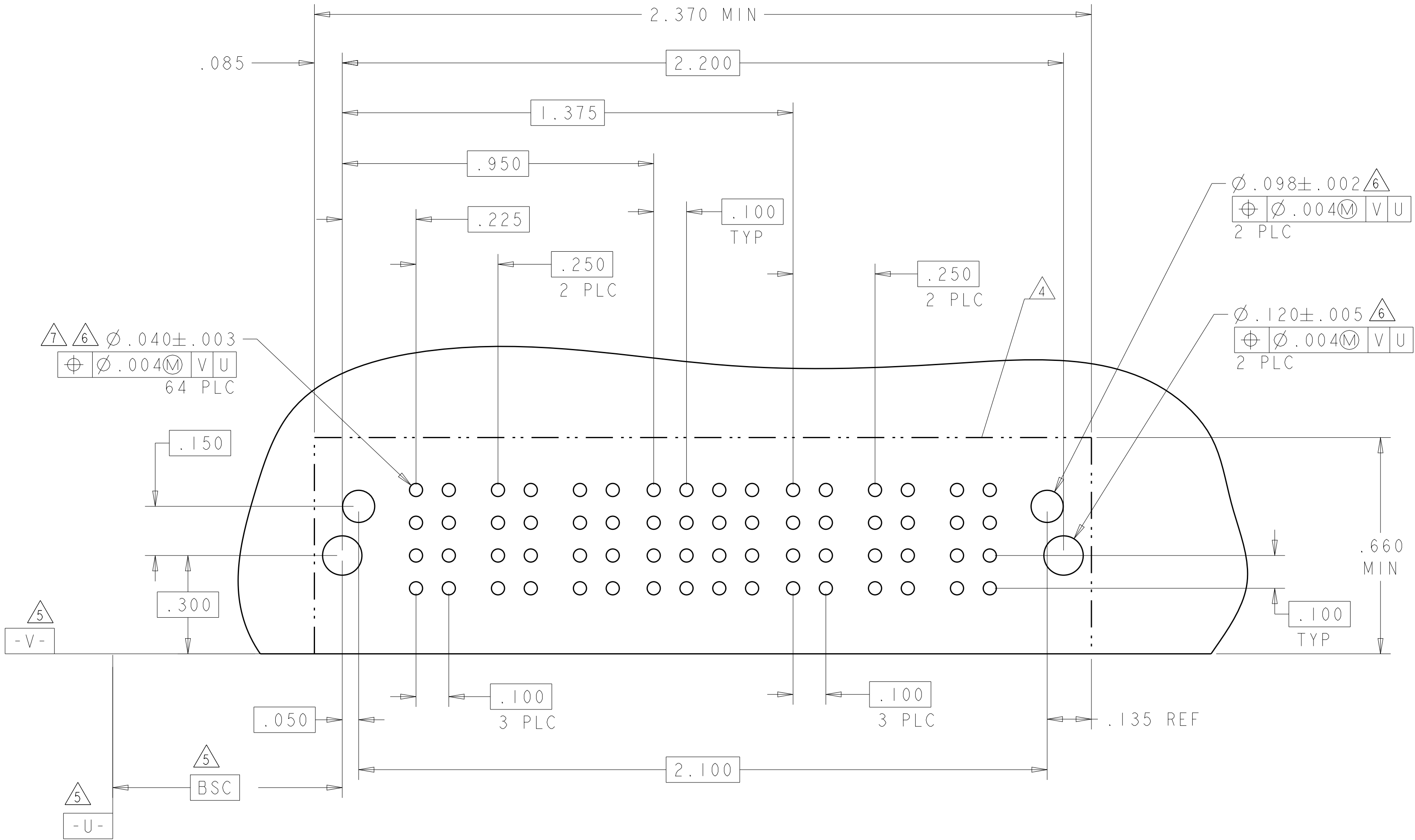
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN S_ZHAO 10APR2007		 TE Connectivity	
DIMENSIONS:		CHN S_ZHAO 10APR2007			
INCHES		APVD S_ZHAO -			
		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME RIGHT ANGLE WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE	
0 PLC ± 1 PLC ± 2 PLC ±.01 3 PLC ±.005 4 PLC ±.0020 ANGLES ±?		PRODUCT SPEC 108-2292 APPLICATION SPEC 114-13251			
MATERIAL -		WEIGHT -			
FINISH -		SIZE A		CAGE CODE 00779	DRAWING NO. C-6450830
		CUSTOMER DRAWING		SCALE 4:1	SHEET 35 OF 42
				REV S2	RESTRICTED TO -

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

PART NUMBER	ROWS		POWER	SIGNAL		POWER	
			P1	1	2	P2	
7-6450830-2	D C B A		TM	J	J	TM	
				K	K		
				N	N		
				S	S		
IP + 8S + IP							



PART NUMBER	ROWS		POWER			SIGNAL				POWER			
			P1	P2	P3	1	2	3	4	P4	P5	P6	
7-6450830-3	D C B A	 				J	J	J	J				 
						K	K	K	K				
						N	N	N	N				
						S	H	H	S				
3P + 16S + 3P													

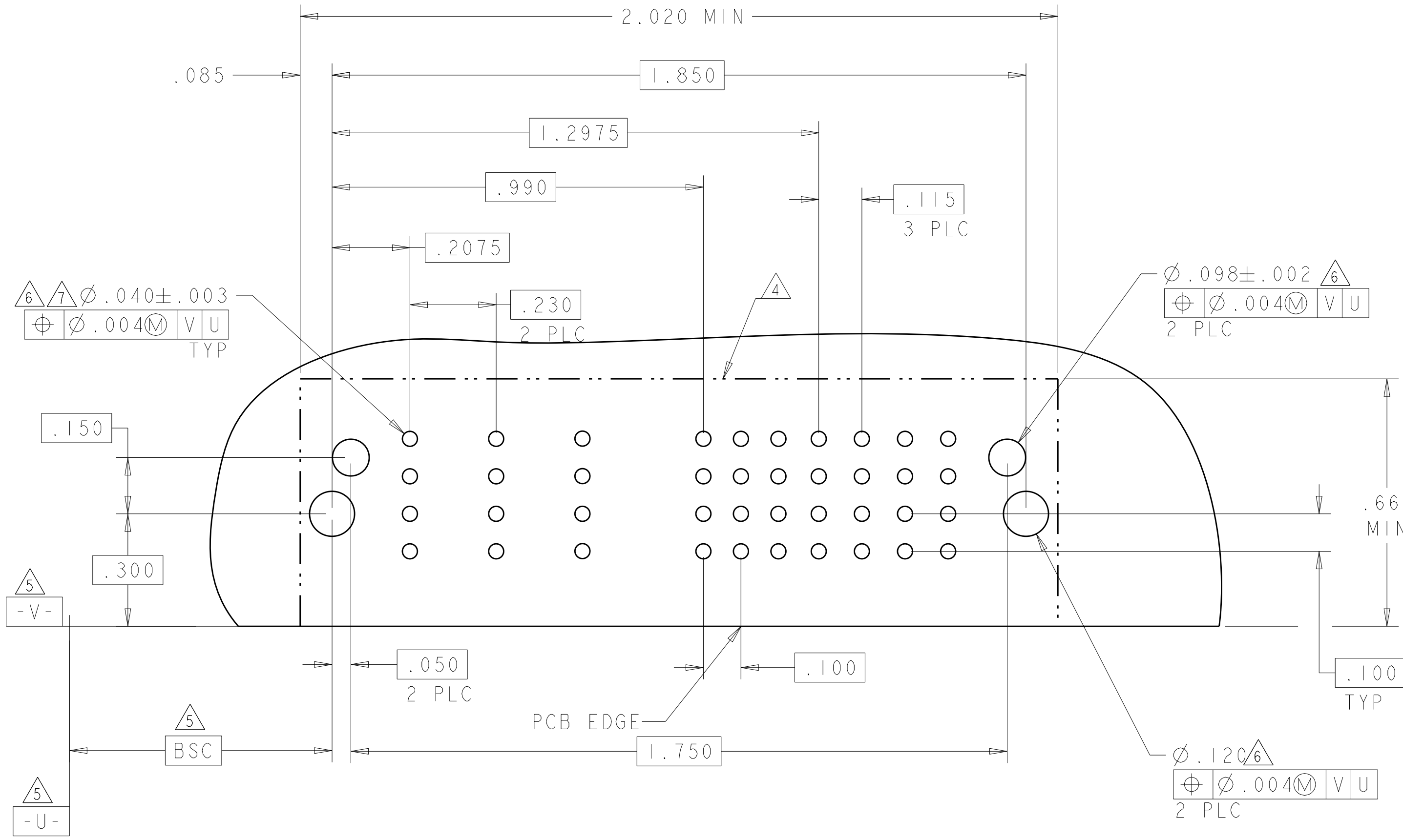


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN S. ZHAO	10APR2007	TE Connectivity	
		CHK S. ZHAO	10APR2007		
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
		0 PLC ±.010 1 PLC ±.010 2 PLC ±.010 3 PLC ±.010 4 PLC ±.010 ANGLES ±.0020 FINISH		PRODUCT SPEC	
MATERIAL				APPLICATION SPEC	
				114-13251	
				WEIGHT	
				CUSTOMER DRAWING	
				SCALE 4:1 SHEET 36 OF 42 REV S2	

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

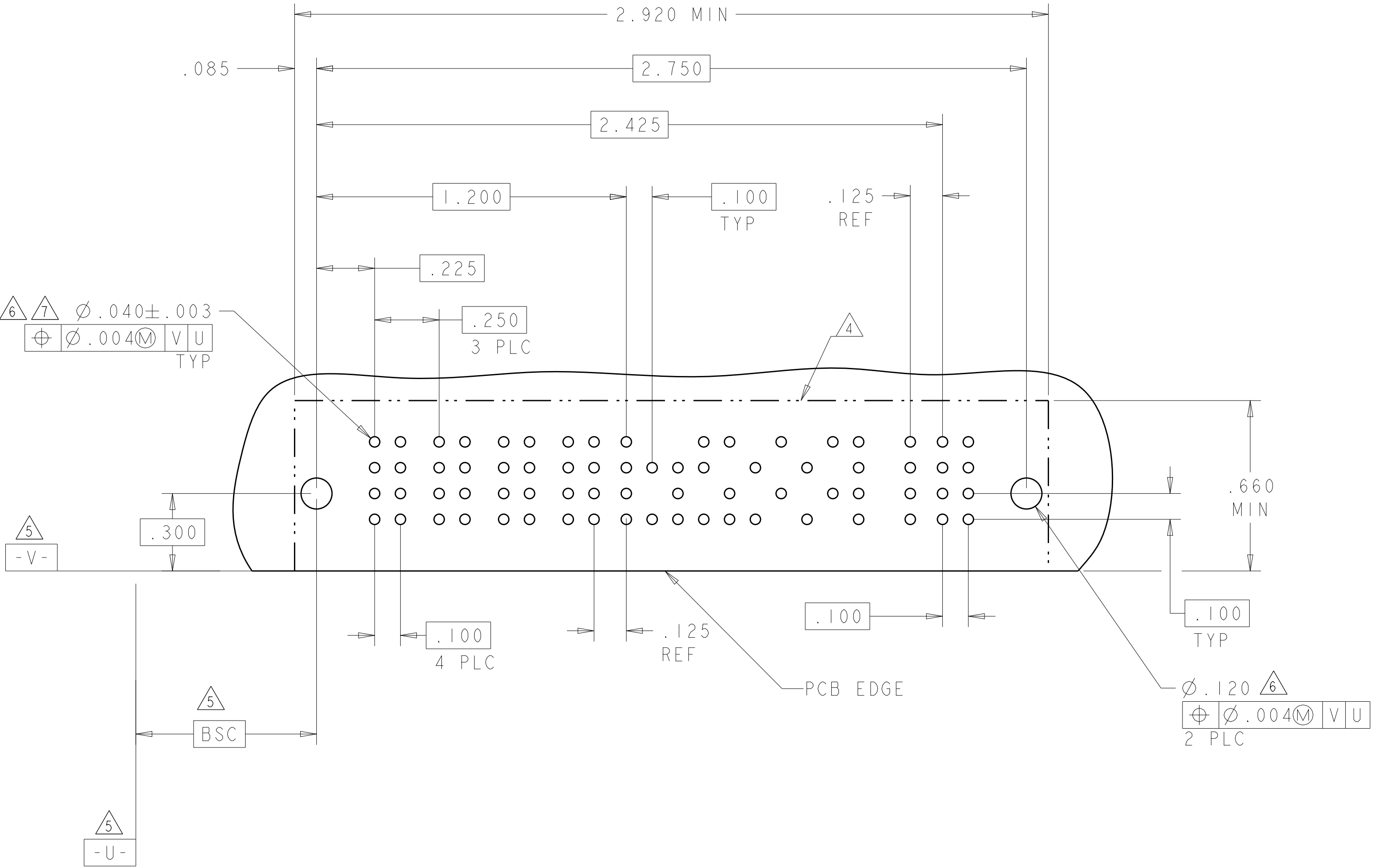
PART NUMBER	ROWS		LOW POWER			SIGNAL			LOW POWER				
			LP1	LP2	LP3	1	2	3	LP4	LP5	LP6	LP7	
7-6450830-6	D		LM	LM	LM	J	J	J	LM	LM	LM	LM	
	C					K	K	K					
	B					N	N	N					
	A					S	S	S					
3LP + 12S + 4LP													

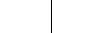
R3

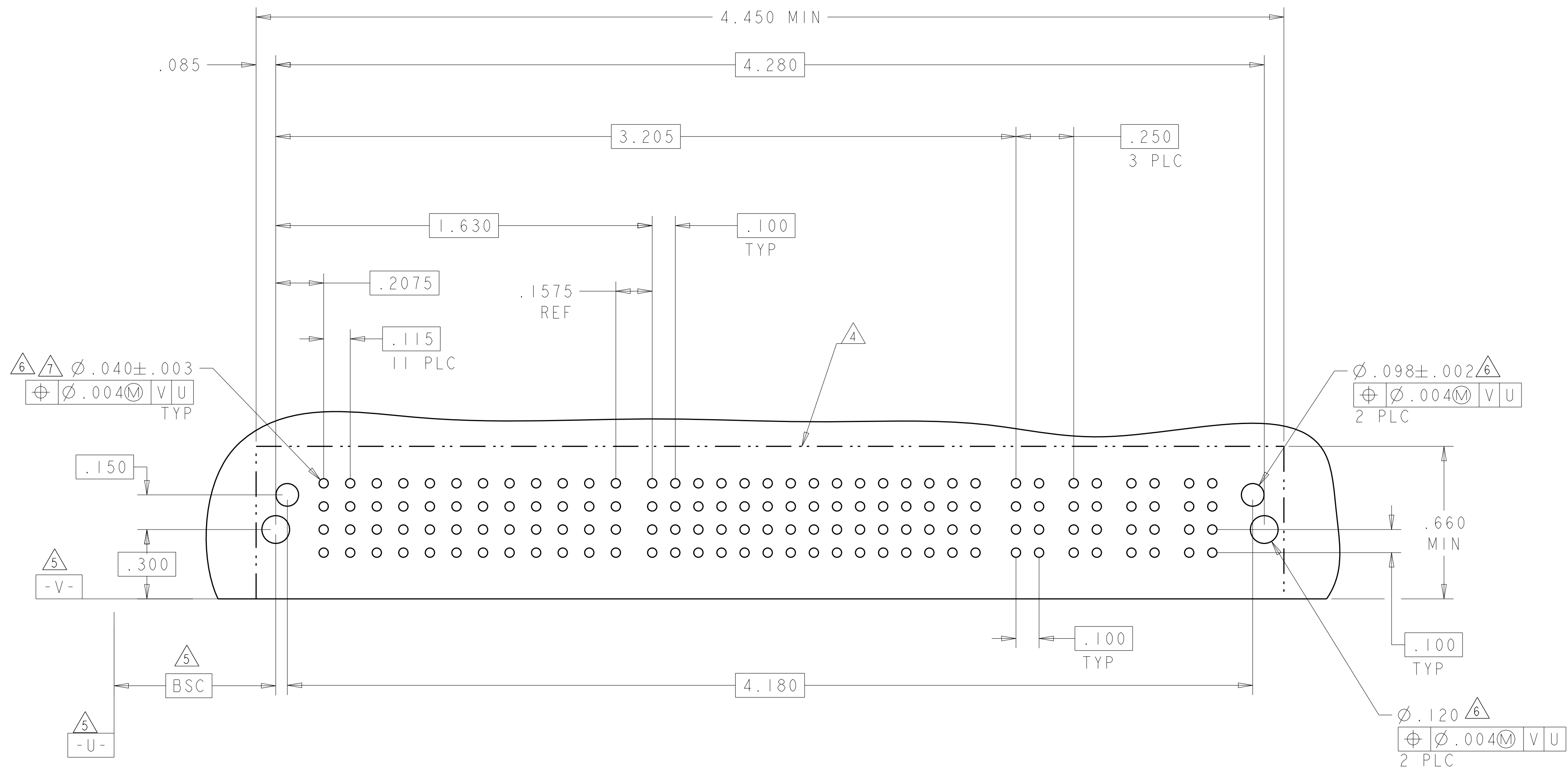


PART NUMBER	ROWS		POWER				SIGNAL												POWER	
			P1	P2	P3	P4	1	2	3	4	5	6	7	8	9	10	11	12	P4	
7-6450830-7	D		TM	TM	TM	TM	E			E	J		J		J	E		E	TM	
	C						F	F	F	F		K		K		F		F		
	B						G		G		N		N		N	G		N		
	A						H	H	H	H	H	H		S		H		H		
4P + 48S + 1P																				

BLANK SIGNAL PINS ARE UNLOADED PINS



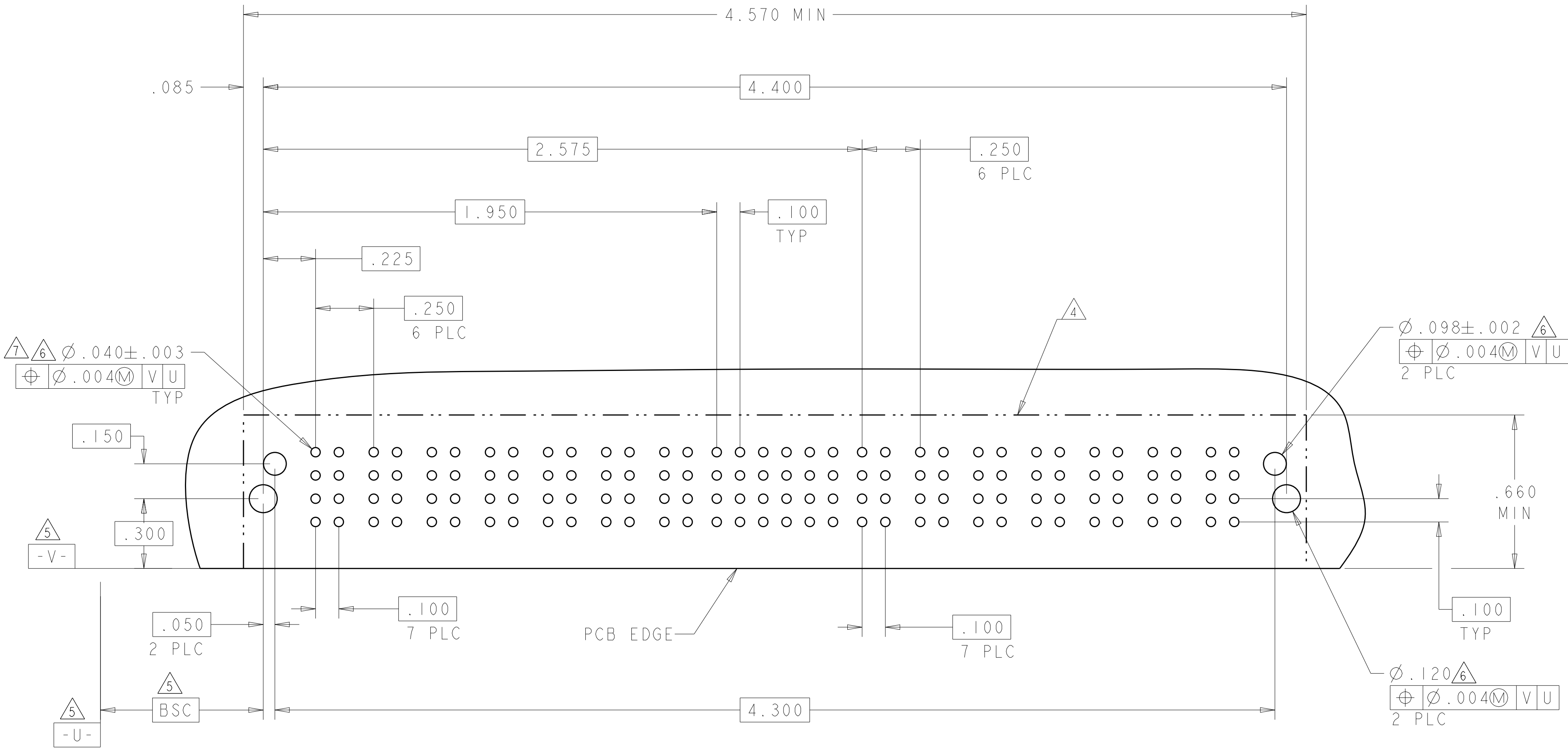
PART NUMBER	ROWS		LOW POWER												SIGNAL															POWER						
			LP1	LP2	LP3	LP4	LP5	LP6	LP7	LP8	LP9	LP10	LP12	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	P1	P2	P3	P4				
7-6450830-8	D		LM	LM	LM	LM	LM	LM	LM	LM	LM	LM	LM	J	J	J	J	J	J	J	J	J	J	J	J	J	J	TM	TM	TM	TM					
	K													K	K	K	K	K	K	K	K	K	K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



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:		NAME RIGHT ANGLE WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE	
0 PLC ± 1 PLC ± 2 PLC ±.01 3 PLC ±.005 4 PLC ±.0020 ANGLES ±?		PRODUCT SPEC 108-2292			
MATERIAL -		APPLICATION SPEC 114-13251			
FINISH -		WEIGHT -		SIZE CAGE CODE DRAWING NO RESTRICTED TO A 100779 © 6450830 -	
CUSTOMER DRAWING		SCALE 4:1		SHEET 38 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	P3	P4	P5	P6	P7	1	2	3	4	5	6	P8	P9	P10	P11	P12	P13	P14	
7-6450830-9	D		TM	TM	TM	TM	TM	TM	TM	E	E	E	E	E	E	TM	TM	TM	TM	TM	TM	TM	
	C									F	F	F	F	F	F								
	B									G	G	G	G	G	G								
	A									HD	H	H	H	H	H								
7P + 24S + 7P																							

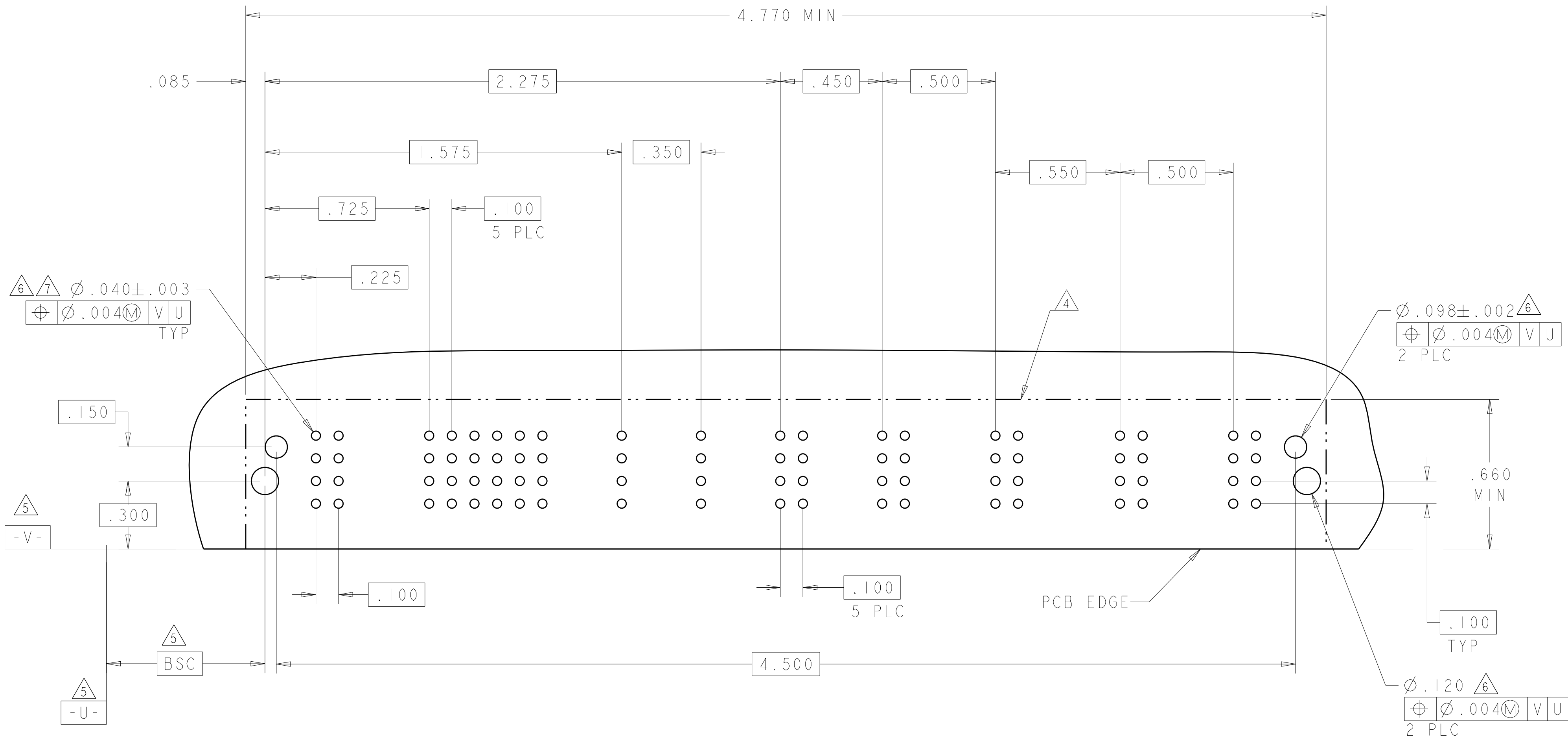


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN S.ZHAO	10APR2007	TE Connectivity	
		CHK S.ZHAO	10APR2007		
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
		0 PLC ±"		PRODUCT SPEC	
		1 PLC ±.01		108-2292	
		2 PLC ±.01		APPLICATION SPEC	
		3 PLC ±.005		114-13251	
		4 PLC ±.0020		WEIGHT	
		ANGLES ±2°		CUSTOMER DRAWING	
MATERIAL		FINISH		SCALE	
-		-		4:1	
				SHEET 39 OF 42	
				REV S2	

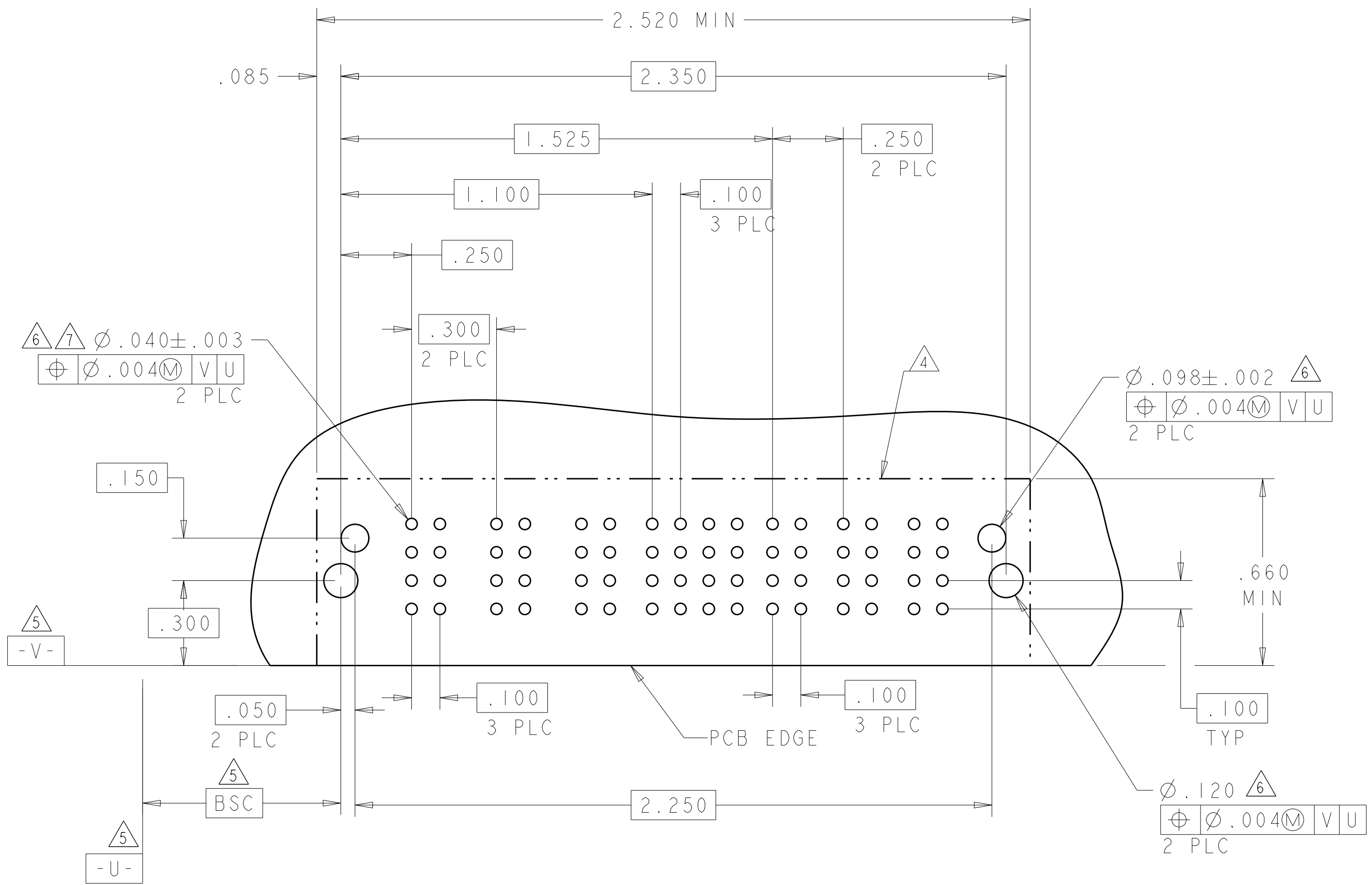
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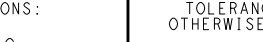
NO CONTACTS LOADED

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		TM	TM	TM	J	J	J	J	TM	TM	TM	
	C					K	K	K	K				
	B					N	N	N	N				
	A					S	S	S	S				
3ACP + 16S + 3P													

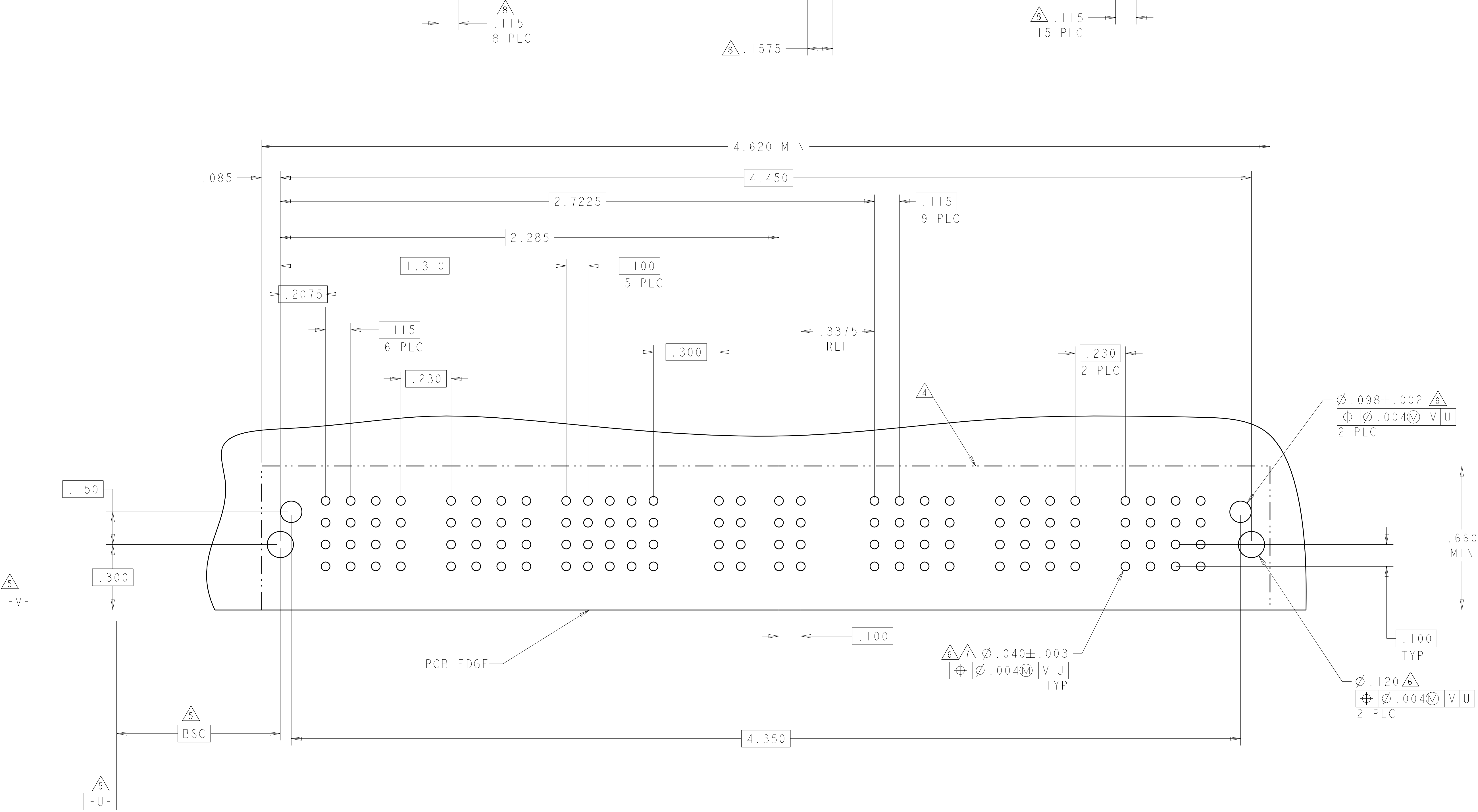


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN S_ZHAO 10APR2007		 TE Connectivity	
DIMENSIONS:		CHW S_ZHAO 10APR2007			
INCHES		APWD S_ZHAO -		NAME	
		PRODUCT SPEC		RIGHT ANGLE WITH SHORT GUIDES AND LP CONTACTS ASSEMBLY MULTI-BEAM XLE	
		108-2292			
		APPLICATION SPEC			
		114-13251			
MATERIAL		FINISH		SIZE CASE CODE DRAWING NO	
-		-		A 100779 C-6450830	
-		-		-	
CUSTOMER DRAWING				SCALE 4:1 SHEET 41 OF 42 REV S2	

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

PART NUMBER	ROWS		LOW POWER									SIGNAL									POWER	LOW POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
			LP1	LP2	LP3	LP4	LP5	LP6	LP7	LP8	LP9	I	2	3	4	5	6	7	8	9		P1	LP10	LP11	LP12	LP13	LP14	LP15	LP16	LP17	LP18	LP19	LP20	LP21	LP22	LP23	LP24		LP25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
8-6450830-2	D		LM	LM	LM	LMF	-	LMF	LM	LM	LM	E	E	E	E	E	-	-	E	E	TM	-	-	LML	LML	LML	LML	LML	LML	LML	LML	LML	LML	LML	LML																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	C											F	F	F	F	F	G	-	-	F																	F																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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	A											H	H	H	H	H	-	-	H	H																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
9LP + 36S + 1P + 16LP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

- NO CONTACTS LOADED



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DWN S.ZHAO 10APR2007
CHK S.ZHAO 10APR2007
APVD S.ZHAO -

NAME

DIMENSIONS:
INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±.01
1 PLC ±.01
2 PLC ±.01
3 PLC ±.005
4 PLC ±.002
ANGLES ±.020
FINISH #2

MATERIAL -

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

CUSTOMER DRAWING

TE Connectivity

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

SIZE A100779
CAGE CODE C=6450830
SHEET 42 OF 42
REV S2