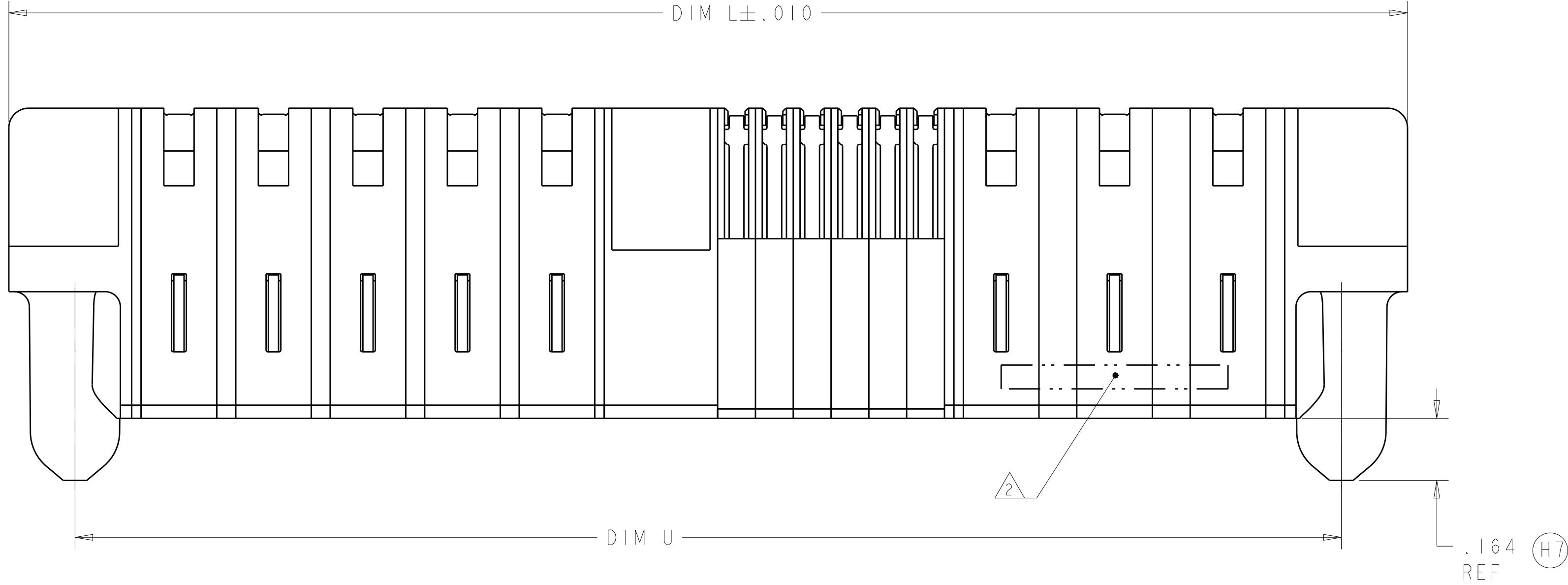
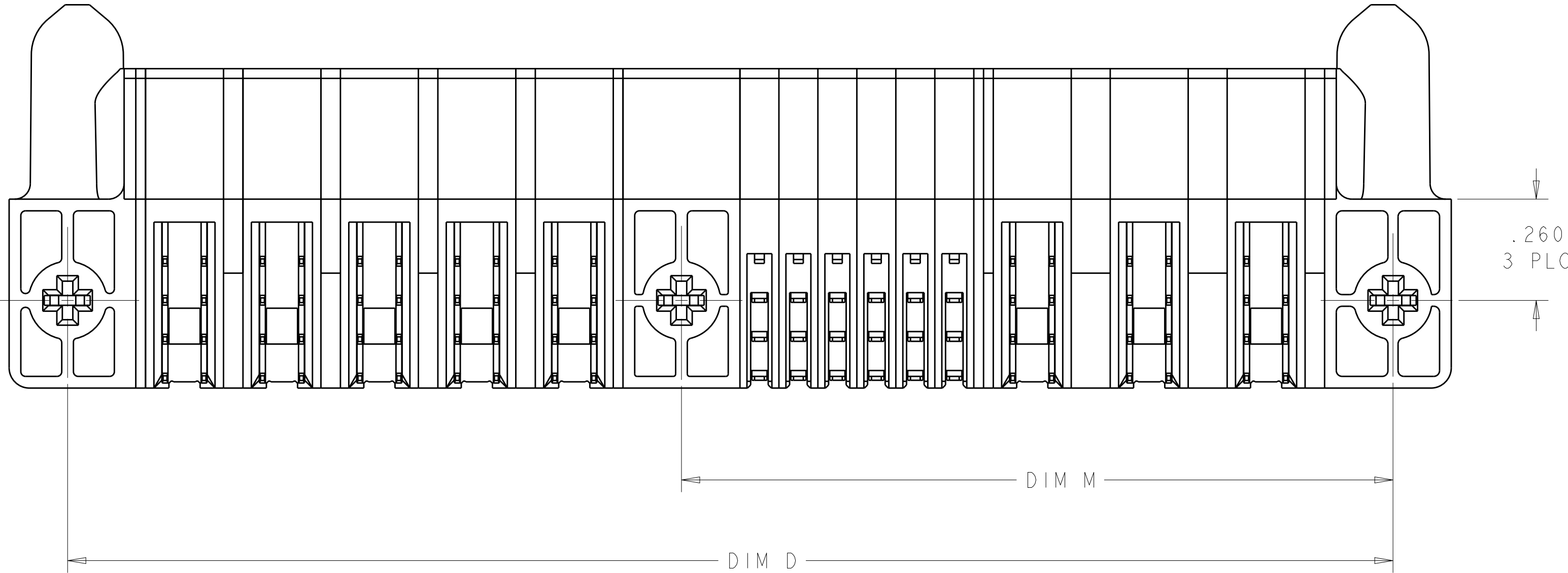
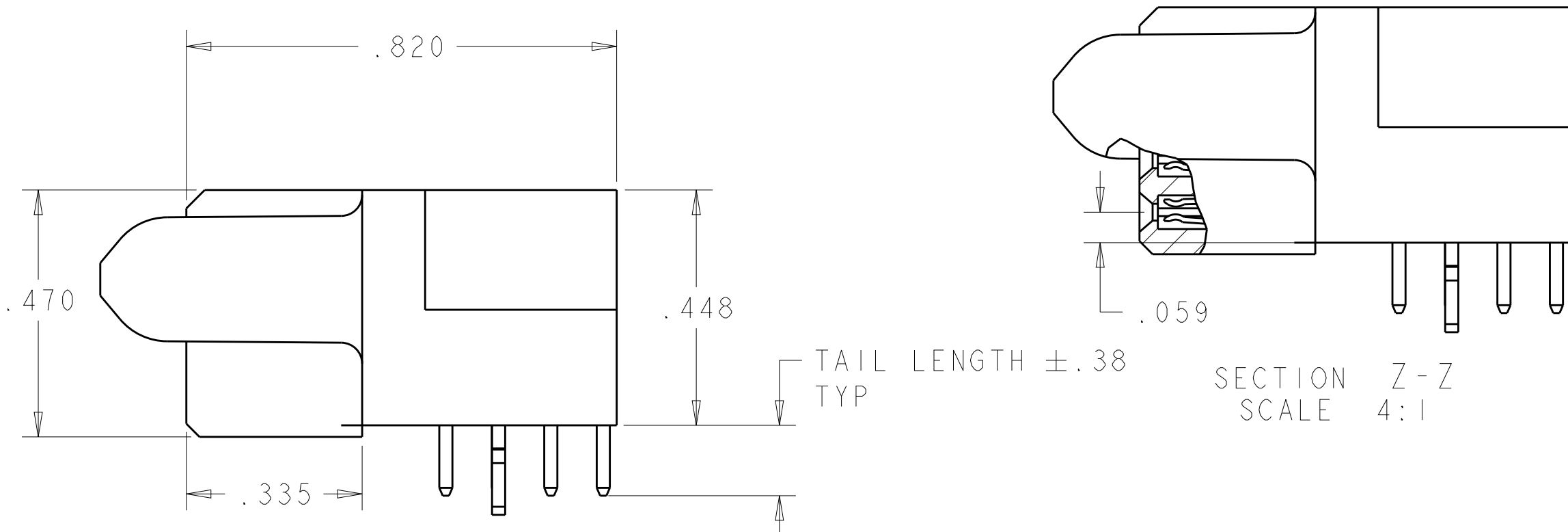
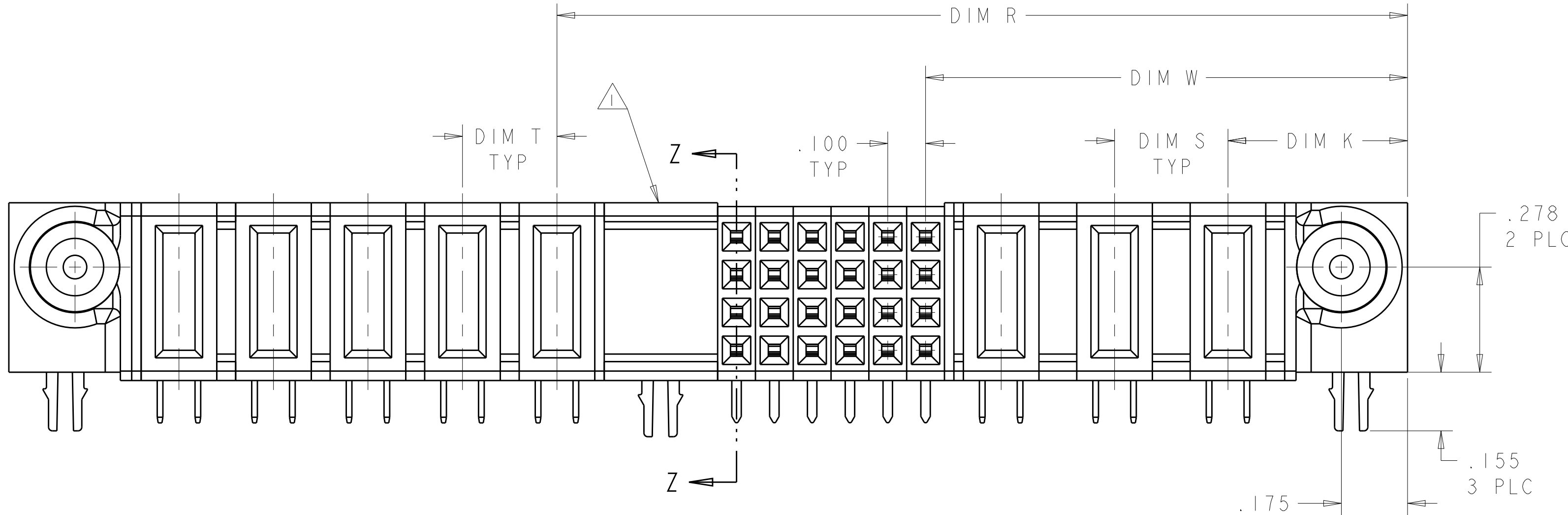


LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
ES	00		J1	REV PER ECR-12-016975	25SEP2012	CZ	SZ
			J3	ADDED NEW DASH NUMBER 4-0	01FEB2013	CZ	SZ
			J5	ADDED NEW DASH NUMBER 4-1	25FEB2014	CZ	SZ



- 1 OPTIONAL CENTER MODULE, WITH .150 THRU HOLE OR HOLD DOWN FEATURE.
- 2 "AMP", PART NUMBER AND DATE CODE TO BE MARKED
- 3 MATERIAL: HOUSING - GLASS FILLED HIGH TEMP THERMO PLASTIC, UL94 V-0.
SIGNAL CONTACT - HIGH CONDUCTIVITY COPPER ALLOY
POWER CONTACT - HIGH CONDUCTIVITY COPPER ALLOY
- 4 CONTACT PLATING: NOBLE METAL PLATING ON CONTACT FUNCTIONAL AREA OF POWER AND SIGNAL CONTACTS
- 5 MECHANICAL CONNECTOR KEEP OUT ZONE.
- 6 DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
- 7 PCB - ALL HOLE DIAMETERS ARE FINISHED HOLE SIZES
- 8 PCB - .0453±.0010 DRILLED HOLES PLATED WITH .0003 MIN Sn OVER .001 TO .003 Cu PLATING TO ACHIEVE A .040 DIAMETER HOLE



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R.GRZYBOWSKI 21FEB05	 TE Connectivity	
		CHK M.PERCHEKKE 21FEB05		
DIMENSIONS: INCHES		APVD M.PERCHEKKE	NAME	
		PRODUCT SPEC	RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL	
		108-1973		
		APPLICATION SPEC		
		114-13038		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		WEIGHT -	SIZE CAGE CODE DRAWING NO	
0 PLC ±.01		-	A100779C=6450170	
1 PLC ±.01				
2 PLC ±.01				
3 PLC ±.005				
4 PLC ±.002			RESTRICTED TO	
ANGLES ±.0020				
FINISH #2		SCALE 4:1 SHEET 1 OF 13 REV J5		
MATERIAL		CUSTOMER DRAWING		

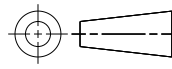
LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
ES	00	-	-	SEE SHEET 1	-	-	-

J4

2.650	.200	.250	1.550	.875	2.700	-	3.000	.450	2P + 24S + 6P	4-6450170-1
3.100	.250	.250	2.250	1.875	3.150	-	3.450	.450	6P + 12S + 4P	4-6450170-0
1.900	.250	.300	1.550	1.275	1.950	-	2.250	.475	3ACP + 8S + 2P	3-6450170-9
1.800	-	-	1.700	.625	1.850	-	2.150	.450	1P + 40S + 1P	3-6450170-8
1.600	-	-	1.500	.625	1.650	-	1.950	.450	1P + 32S + 1P	3-6450170-7
1.700	.250	.250	1.350	.875	1.750	-	2.050	.450	2P + 16S + 2P	3-6450170-6
1.550	.250	.250	1.200	.900	1.600	-	1.900	.450	2P + 8S + 2P	3-6450170-5
2.350	.250	.250	1.250	.875	2.400	-	2.700	.450	2P + 12S + 5P	3-6450170-4
2.325	.250	.300	1.975	1.600	2.375	-	2.675	.450	4ACP + 12S + 2P	3-6450170-3
1.700	.250	.250	1.350	.875	1.750	-	2.050	.450	2P + 16S + 2P	3-6450170-1
2.300	.250	.300	1.950	1.275	2.350	-	2.650	.450	3ACP + 24S + 2P	3-6450170-0
2.400	.250	.250	1.800	1.125	2.450	-	2.750	.450	3P + 24S + 3P	2-6450170-9
2.300	.250	.300	1.950	1.275	2.350	-	2.650	.450	3ACP + 24S + 2P	2-6450170-8
2.400	.250	.250	1.800	1.125	2.450	-	2.750	.450	3P + 24S + 3P	2-6450170-7
1.950	.250	.250	1.600	1.125	2.000	-	2.300	.450	3P + 16S + 2P	2-6450170-6
1.300	-	-	1.200	.675	1.350	-	1.650	.450	1P + 16S + 1P	2-6450170-0
2.200	.250	.250	1.350	.875	2.250	-	2.550	.450	2P + 16S + 4P	1-6450170-9
2.800	.300	.250	2.075	1.375	2.850	-	3.150	.450	4P + 24S + 3ACP	1-6450170-8
3.000	.250	.250	2.150	1.425	3.050	-	3.350	.450	4P + 24S + 4P	1-6450170-4
2.600	.200	.200	1.925	1.175	2.650	-	2.950	.425	4P + 28S + 4P	1-6450170-1
1.575	-	-	1.425	.700	1.625	-	1.925	.475	1P + 24S + 1P	1-6450170-0
2.500	.250	.250	2.150	.875	2.550	-	2.850	.450	2P + 48S + 2P	6450170-9
3.300	.250	.300	1.950	1.275	3.350	-	3.650	.475	3ACP +24S + 6P	6450170-8
1.400	.250	.250	1.300	.625	1.450	-	1.750	.450	1P + 24S + 1P	6450170-6
2.400	.250	.250	1.800	1.125	2.450	-	2.750	.450	3P + 24S + 3P	6450170-5
4.350	.250	.250	3.500	2.625	4.400	-	4.700	.450	9P + 32S + 4P	6450170-4
3.650	.250	.300	2.550	1.275	3.700	-	4.000	.475	3ACP + 48S + 5P	6450170-3
3.050	.250	.300	1.950	1.275	3.100	-	3.400	.475	3ACP +24S + 5P	6450170-2
2.550	.250	.300	2.200	1.525	2.600	-	2.900	.475	3ACP+1P+24S+2P	6450170-1
DIM U	DIM T	DIM S	DIM R	DIM W	DIM D	DIM M	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
#2°
-

DWN
R.GRZYBOWSKI

CHK
M.PERCHEKKE

APVD
M.PERCHEKKE

PRODUCT SPEC
108-1973

APPLICATION SPEC
114-13038

WEIGHT
-

CUSTOMER DRAWING

21FEB05

21FEB05

-

NAME

SIZE
A1

CAGE CODE
100779

DRAWING NO
6450170

RESTRICTED TO
-

SCALE
4:1

SHEET
2

OF
13

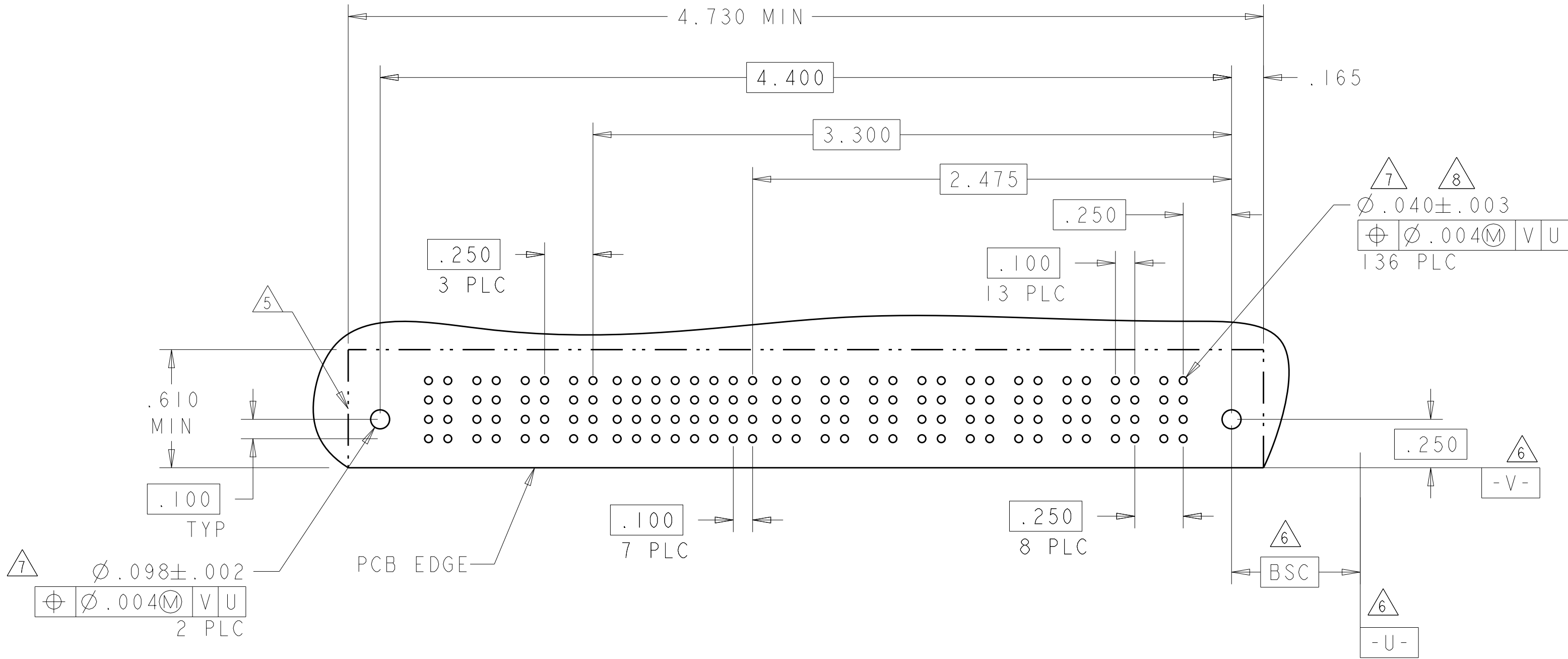
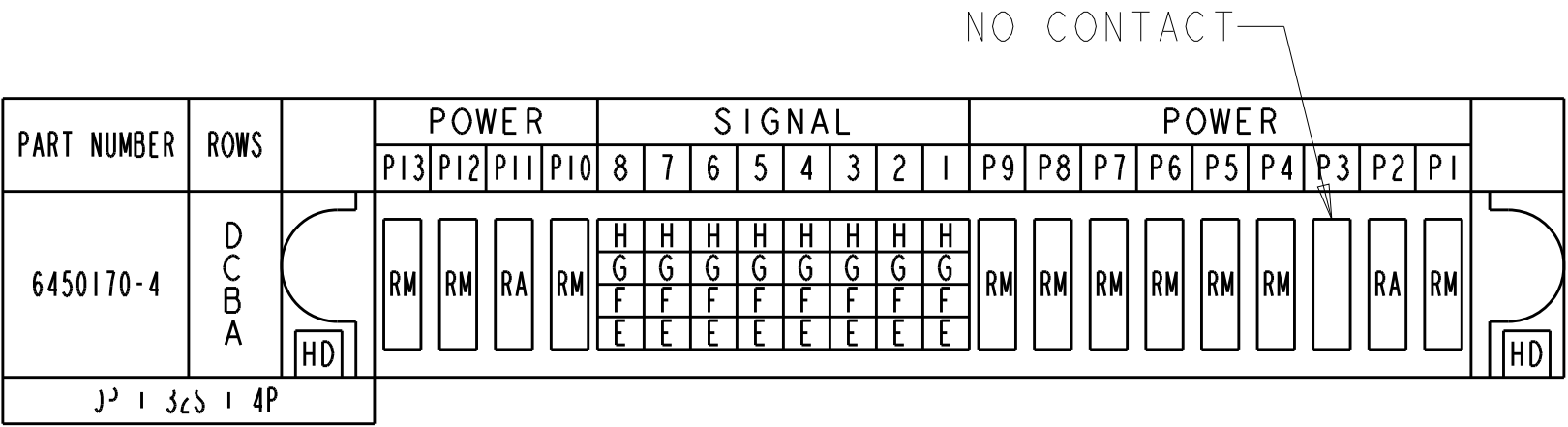
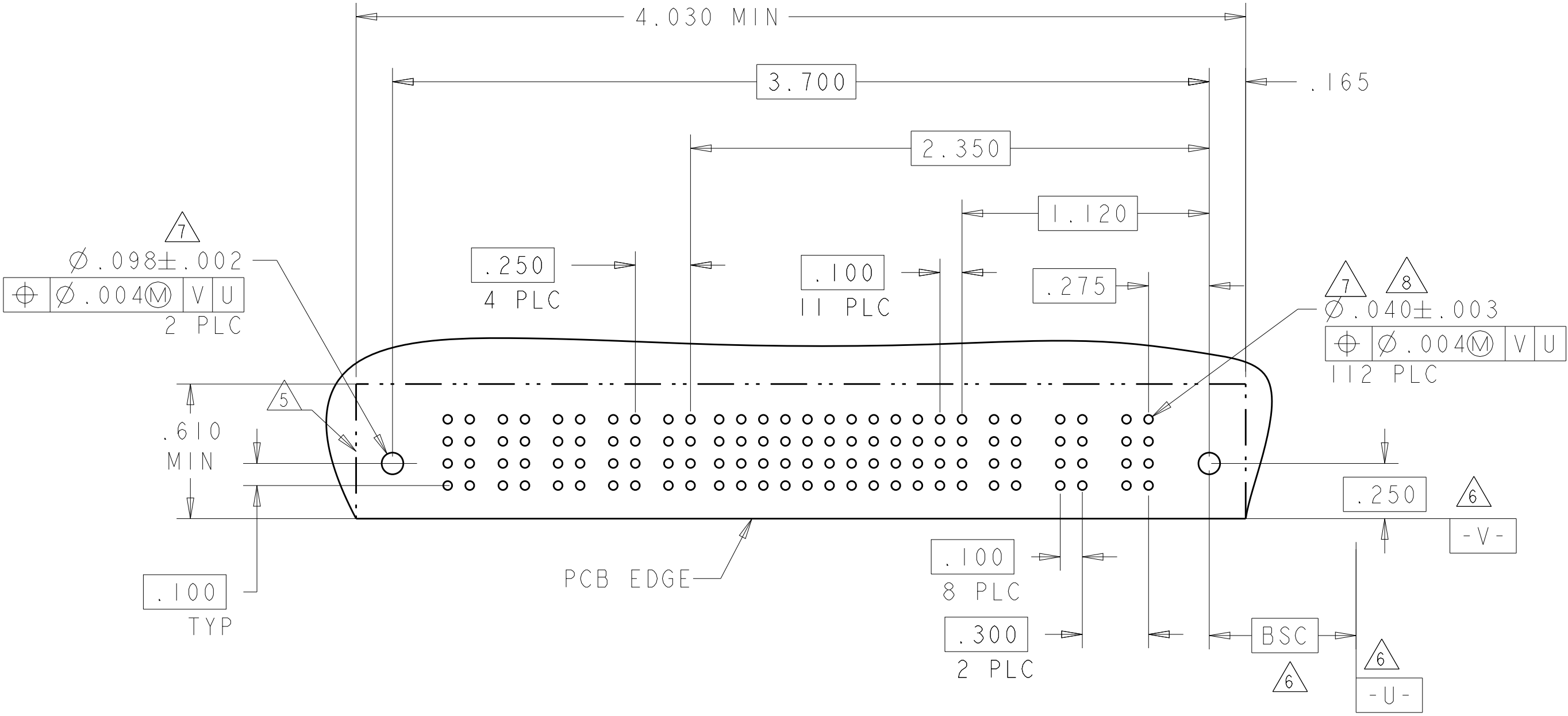
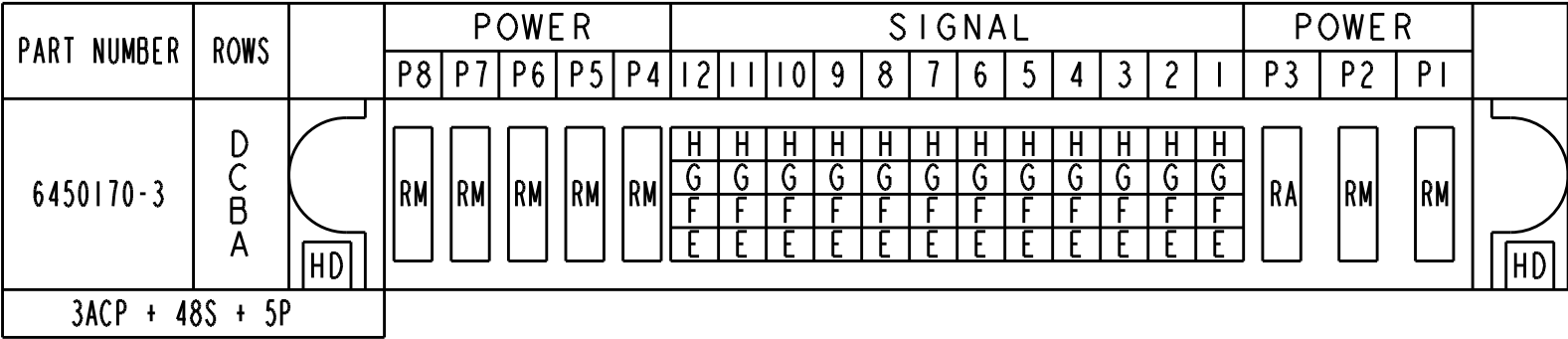
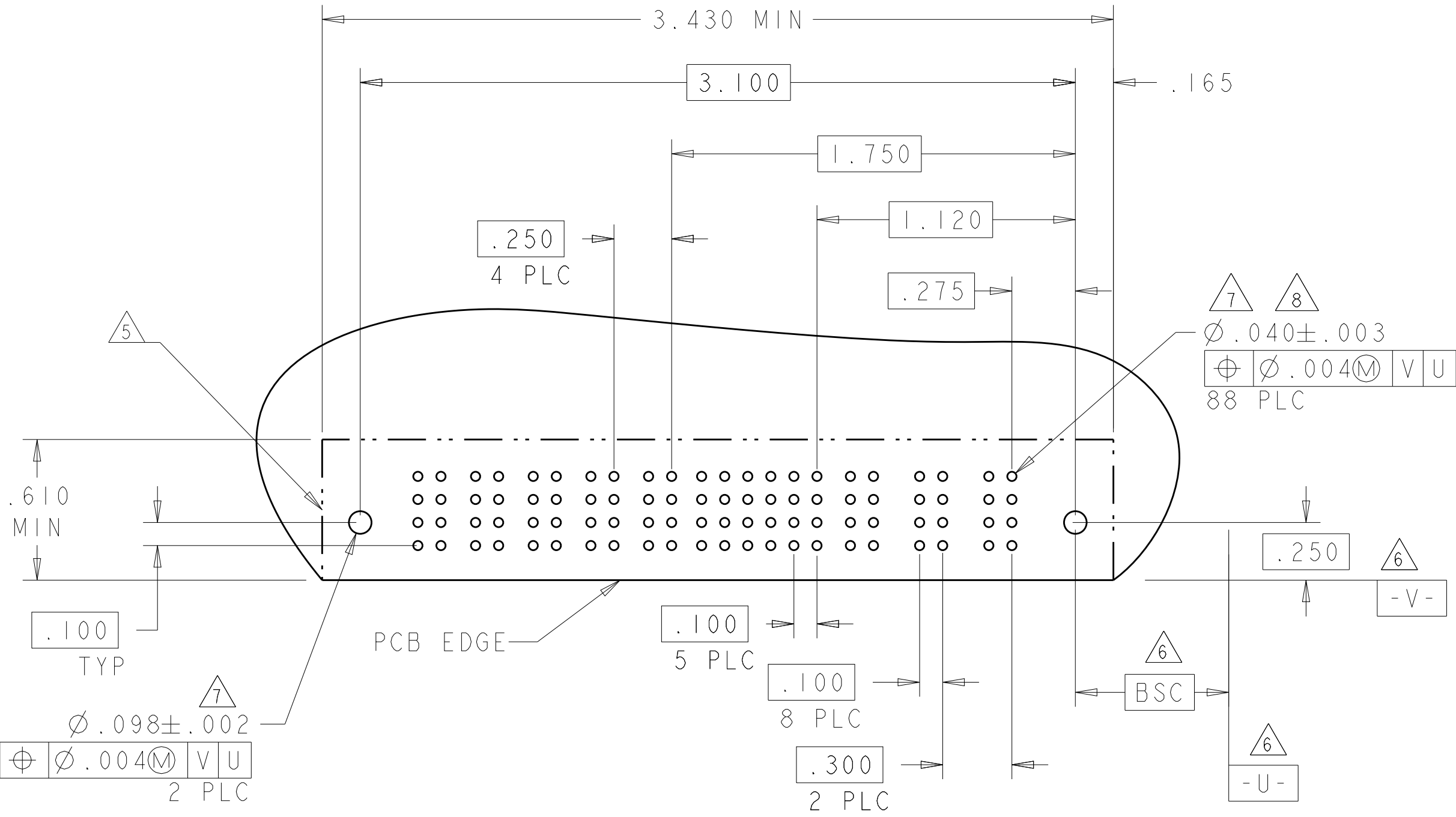
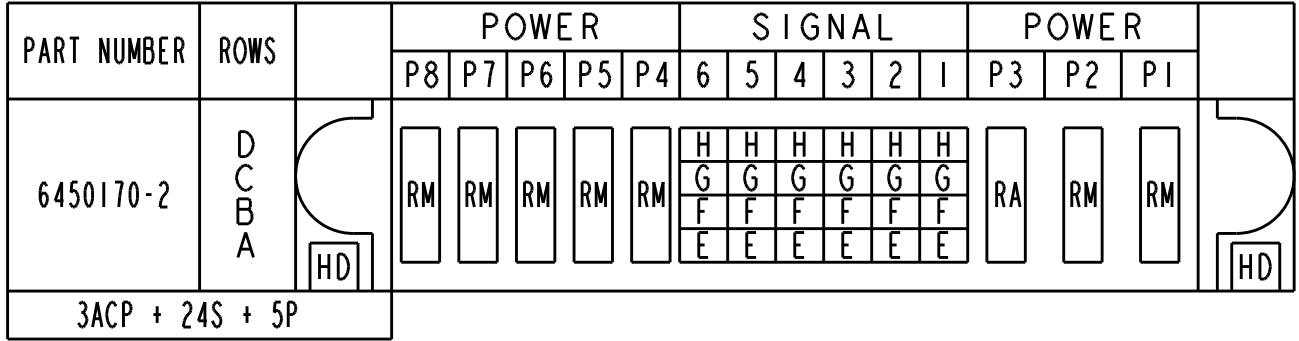
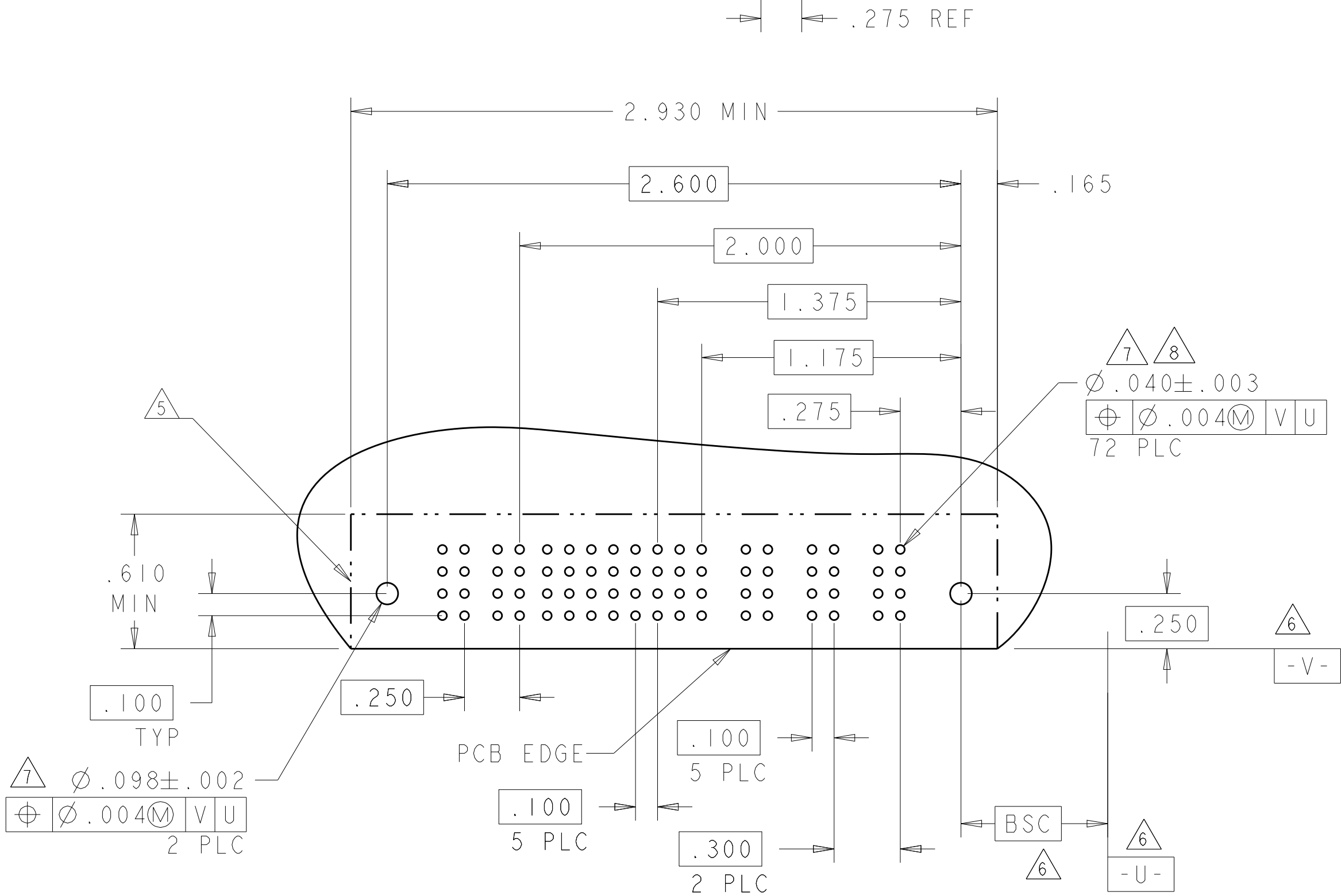
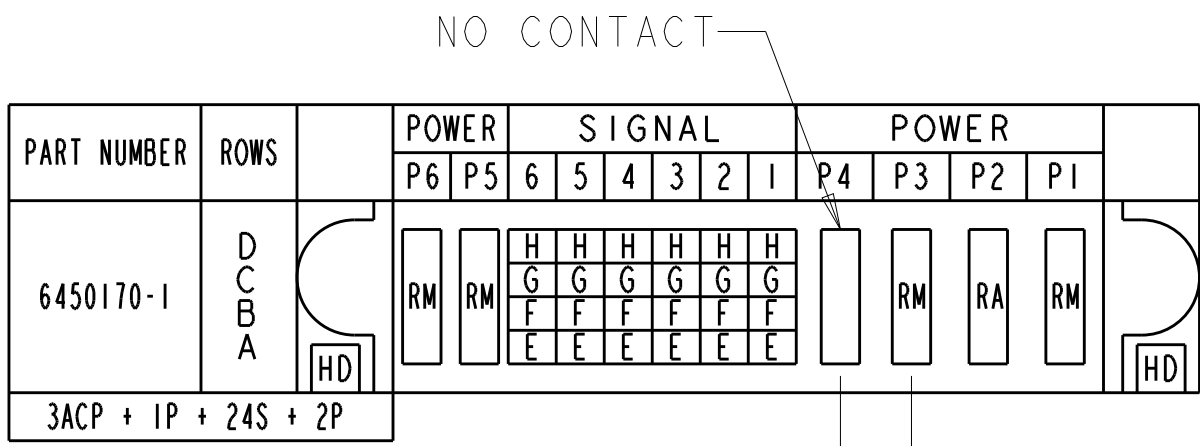
REV
J5

 TE Connectivity

RIGHT ANGLE RECEPTACLE ASSEMBLY
WITH GUIDES
MULTI-BEAM XL

4805 (3/11)

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



RM	.135	STD	F	.135	B
RA	.135	MFB	E	.135	A
CODE	TAIL LENGTH	TYPE	CODE	TAIL LENGTH	ROW
POWER CONTACT			SIGNAL CONTACT		

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±.01
1 PLC ±.01
2 PLC ±.01
3 PLC ±.01
4 PLC ±.002
ANGLES ±.002

MATERIAL

FINISH

OWN: R. GRZYBOWSKI
CHK: M. PERCHERKE
APVD: M. PERCHERKE

21FEB05
21FEB05

PRODUCT SPEC
108-1973
APPLICATION SPEC
114-13038

WEIGHT
-

CUSTOMER DRAWING

NAME: RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE: A1
CAGE CODE: 00779
DRAWING NO: 6450170

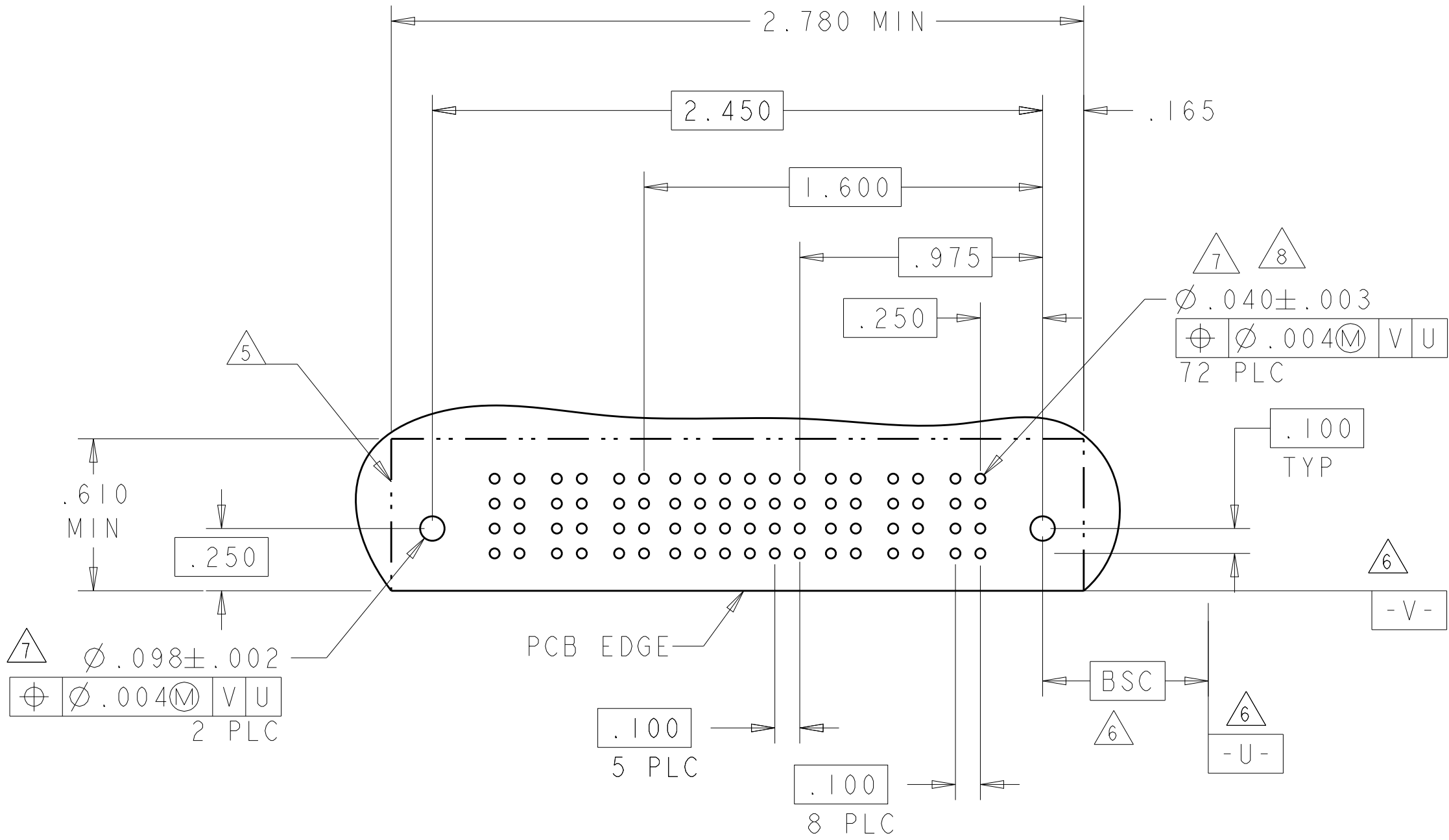
RESTRICTED TO: -

SCALE: 1:1
SHEET: 3 OF 13
REV: J5

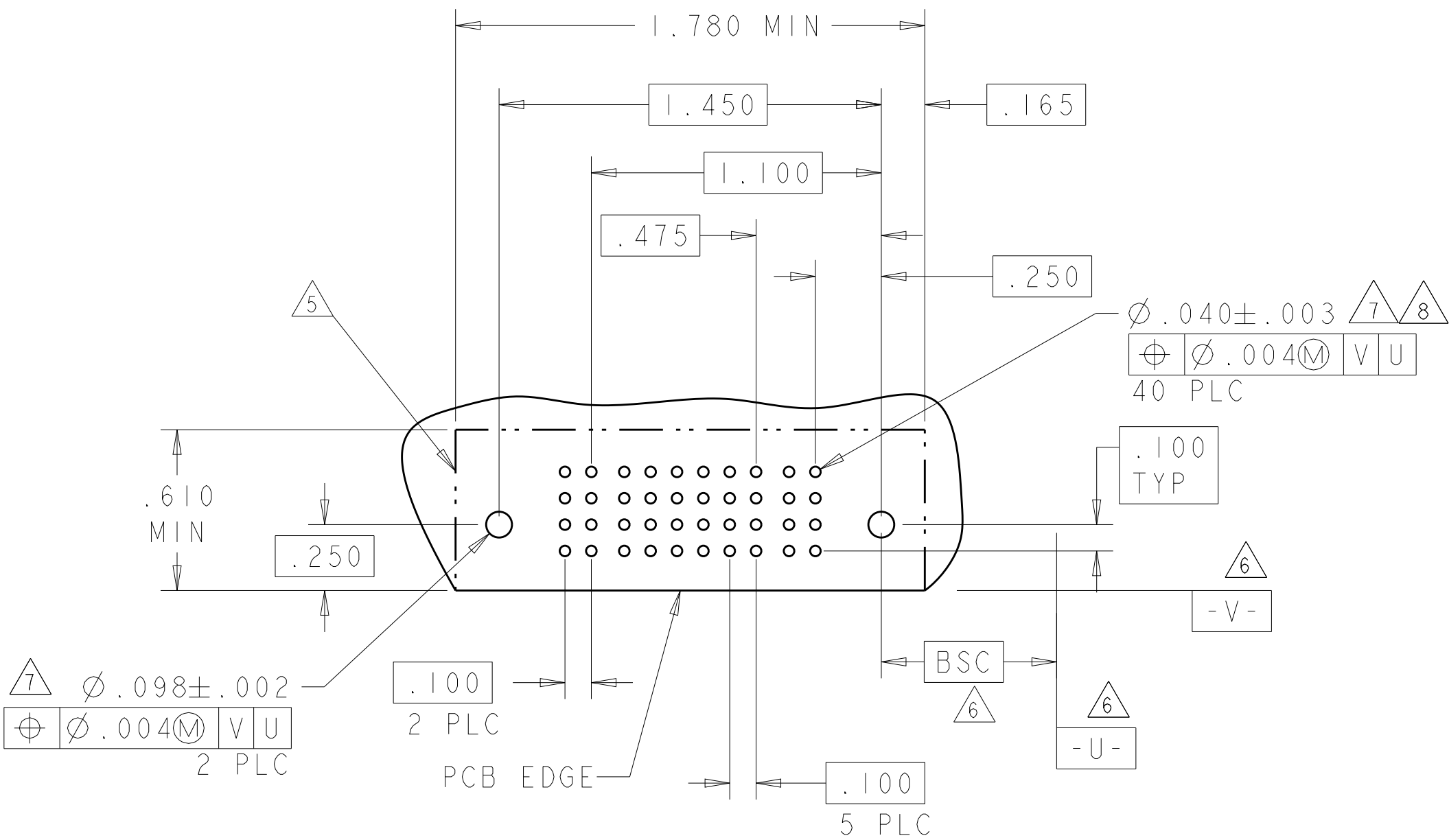
TE Connectivity

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

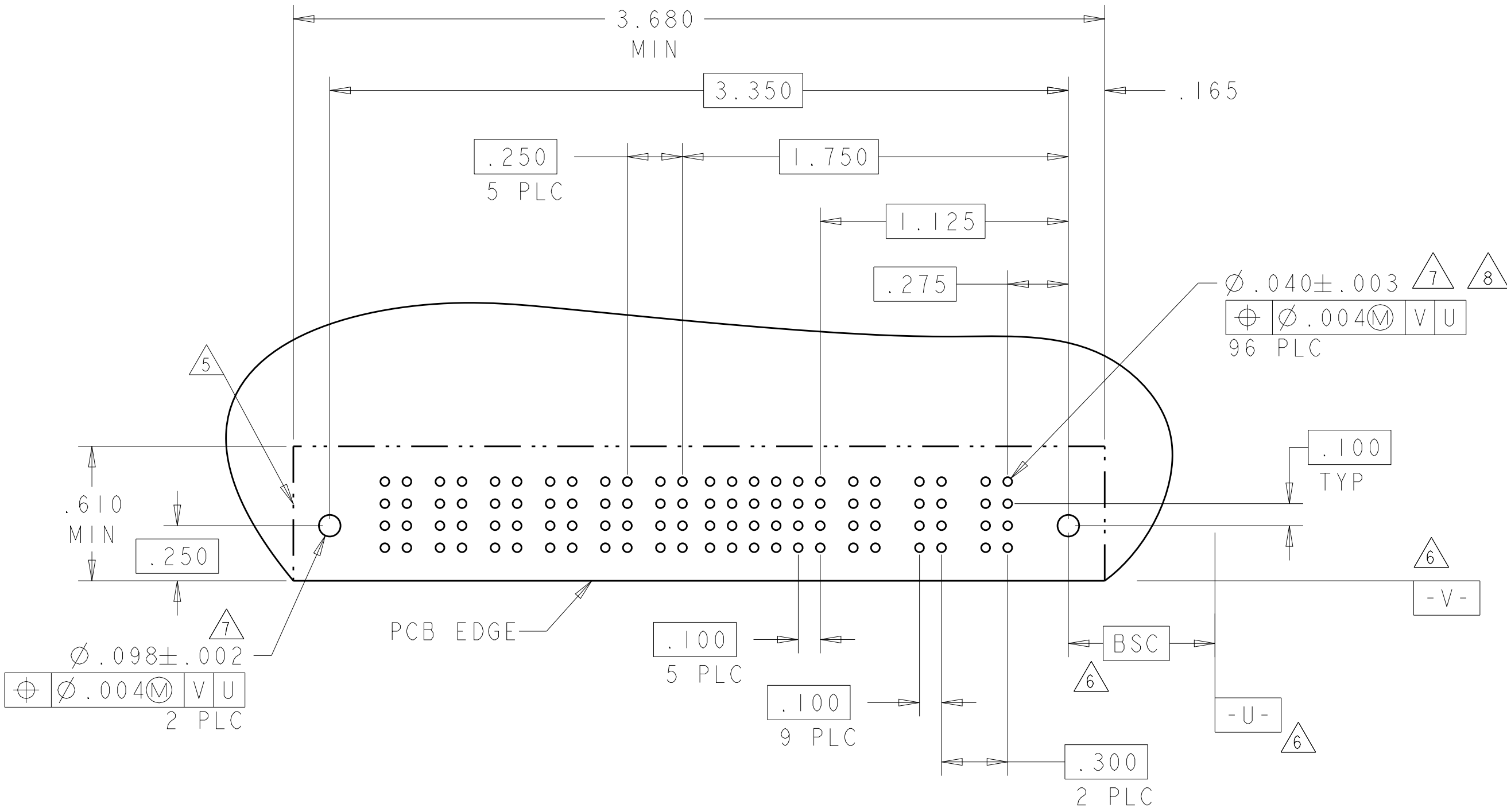
PART NUMBER	ROWS		POWER			SIGNAL						POWER			
			P6	P5	P4	6	5	4	3	2	1	P3	P2	P1	
6450170-5	D C B A		RA	RM	RM	H	H	H	H	H	H	H	RM	RM	RA
						G	G	G	G	G	G	G			
						F	F	F	F	F	F	F			
						E	E	E	E	E	E	E			
3P + 24S + 3P															



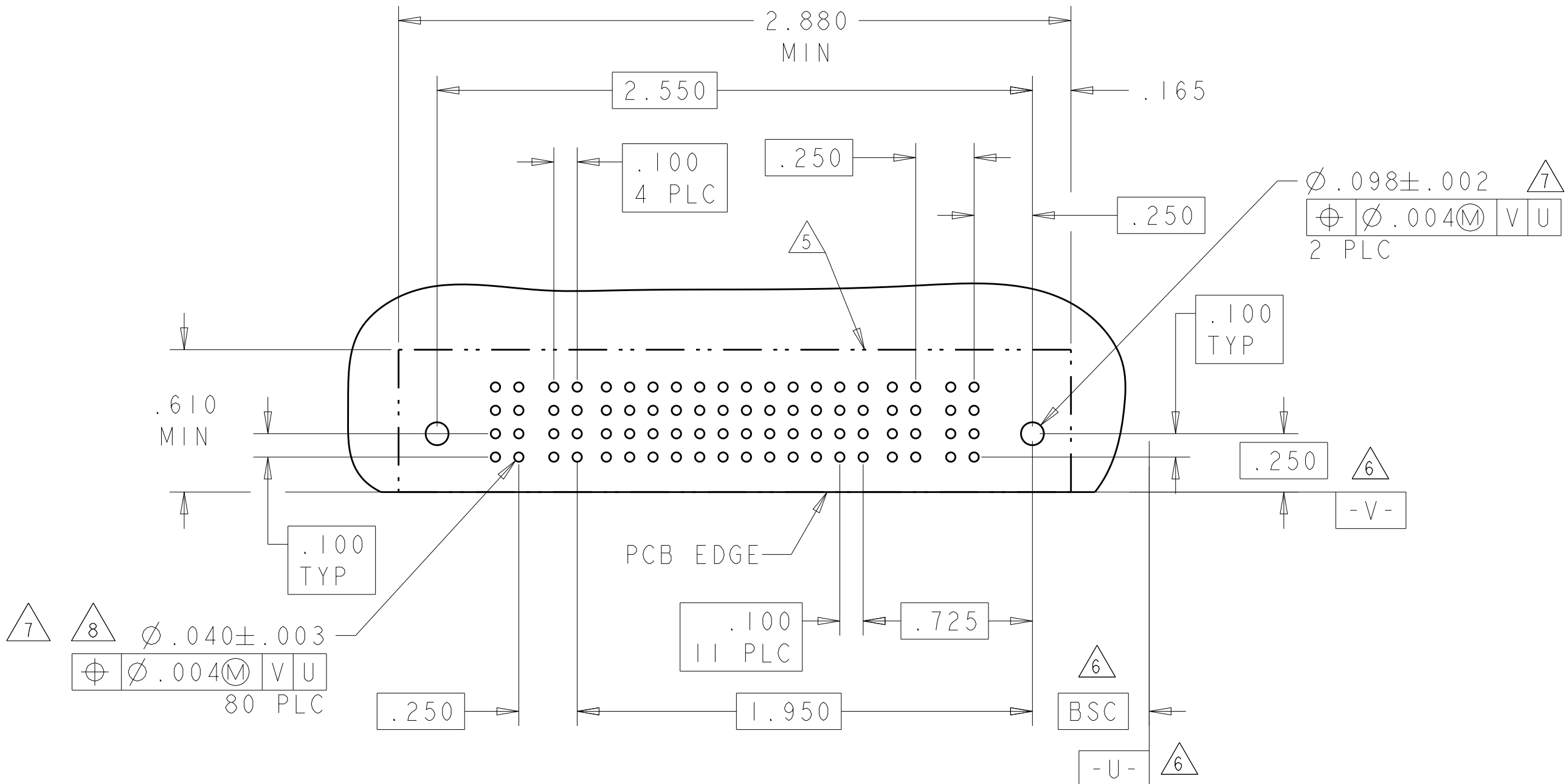
PART NUMBER	ROWS	POWER		SIGNAL							POWER																																
		P2		6	5	4	3	2	1	P1																																	
6450170-6	D C B A	RB	<table><tr><td>K</td><td>L</td><td>L</td><td>L</td><td>L</td><td>L</td><td>L</td><td>L</td></tr><tr><td>K</td><td>K</td><td>K</td><td>K</td><td>K</td><td>K</td><td>K</td><td>K</td></tr><tr><td>J</td><td>J</td><td>J</td><td>J</td><td>J</td><td>J</td><td>J</td><td>J</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							K	L	L	L	L	L	L	L	K	K	K	K	K	K	K	K	J	J	J	J	J	J	J	J									RN	HD
			K	L	L	L	L	L	L	L																																	
			K	K	K	K	K	K	K	K																																	
J	J	J	J	J	J	J	J																																				
1P + 24S + 1P																																											



PART NUMBER	ROWS		POWER						SIGNAL						POWER								
			P9	P8	P7	P6	P5	P4	6	5	4	3	2	1	P3	P2	P1						
6450170-8	D C B A		RM	RM	RM	RM	RM	H	H	H	H	H	H	RA	RM	RM							
																		G	G	G	G	G	G
																		F	F	F	F	F	F
																		E	E	E	E	E	E
3ACP + 24S + 6P																							



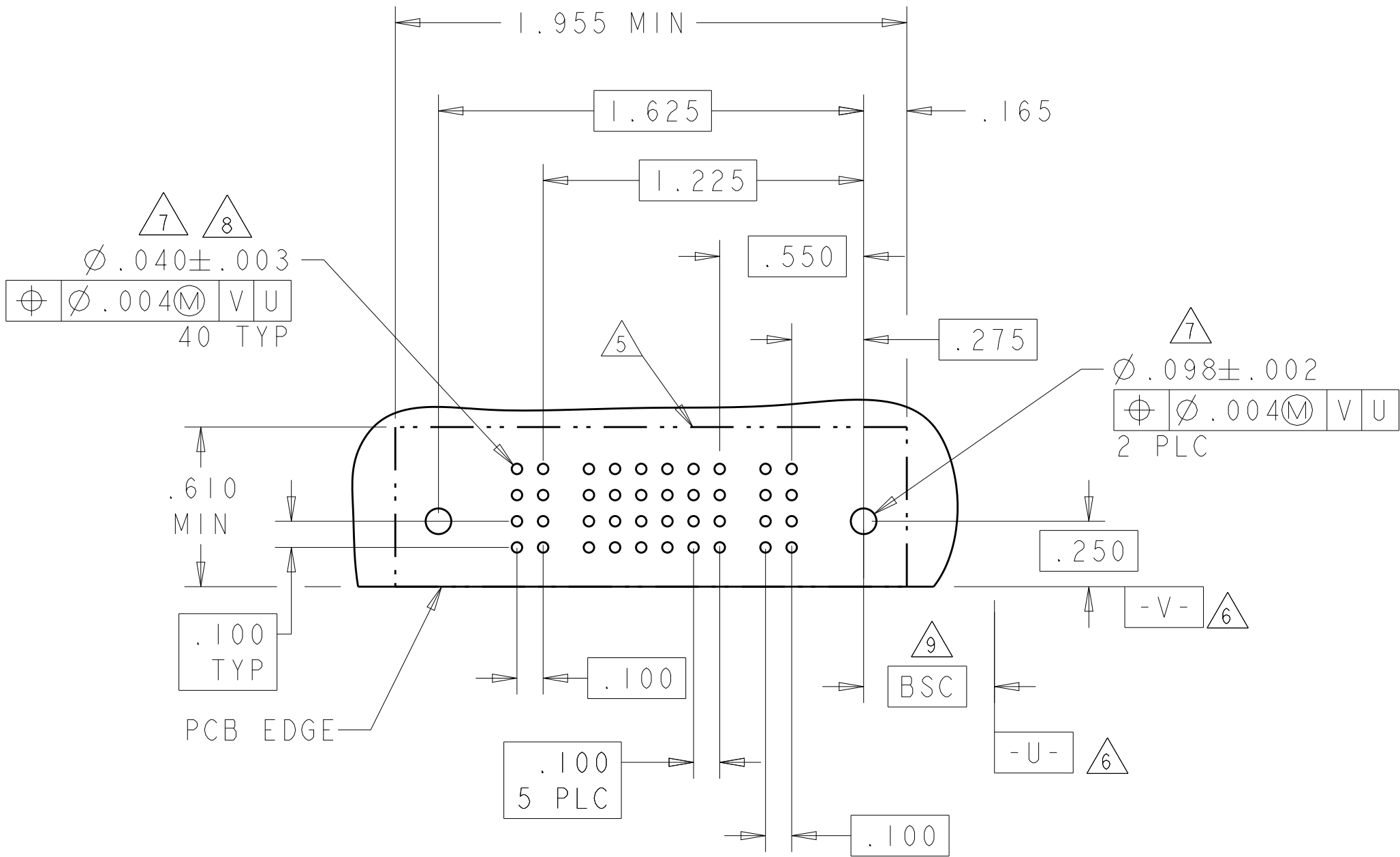
PART NUMBER	ROWS			POWER		SIGNAL										POWER			
		P4	P3	12	11	10	9	8	7	6	5	4	3	2	1	P2	P1		
6450170-9	D C B A			RM	RA	H	H	H	H	H	H	H	H	H	H	H	H	RM	RA
						G	G	G	G	G	G	G	G	G	G	G	G		
						F	F	F	F	F	F	F	F	F	F	F	F		
2P + 48S + 2P																		HD	



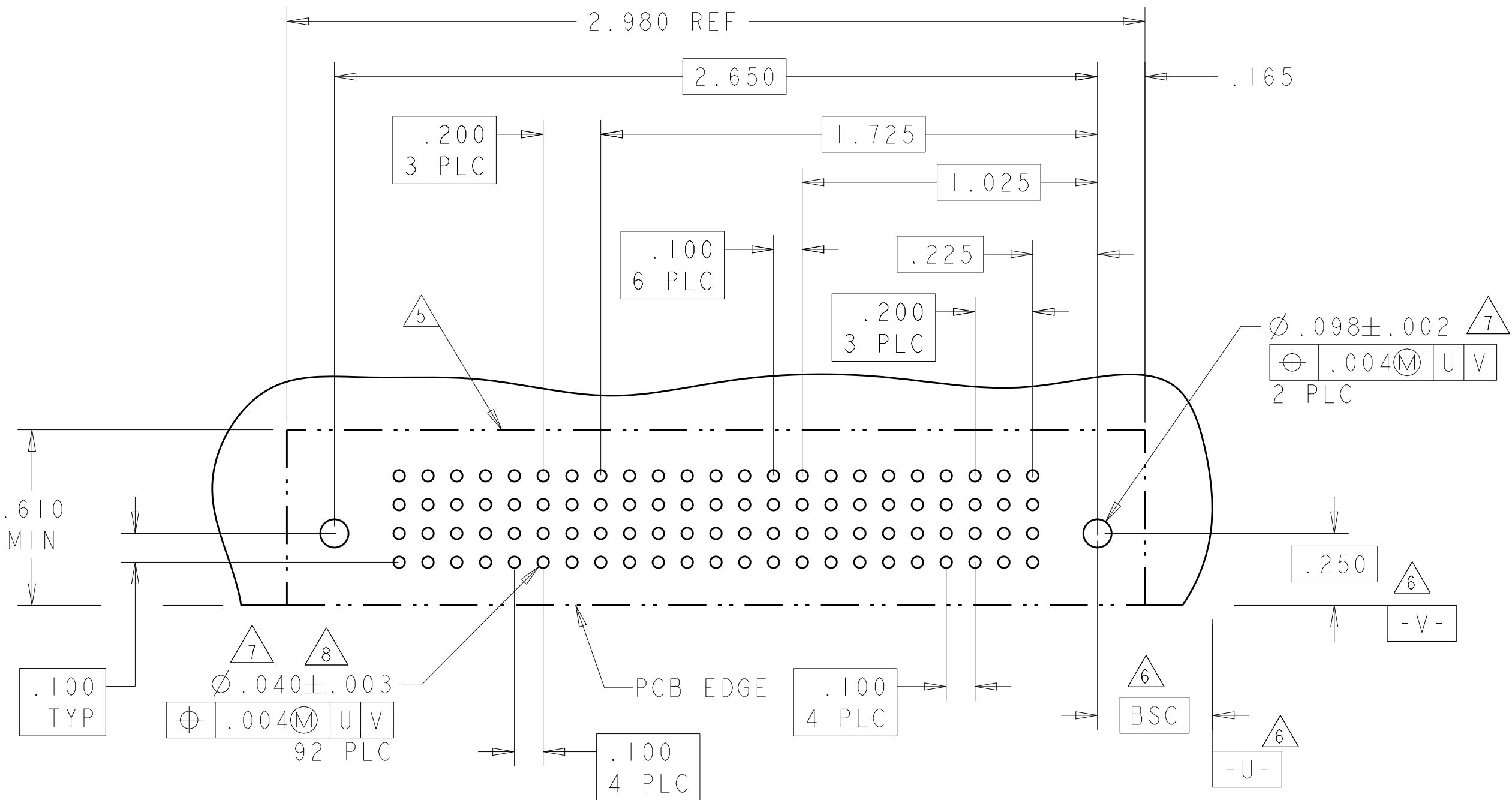
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R. GRZYBOWSKI	21FEB05	TE Connectivity	
DIMENSIONS: INCHES		CHK M. PERCHERKE	21FEB05		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD M. PERCHERKE	-	NAME RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL	
0 PLC ±.01		PRODUCT SPEC		SIZE 108-1973	
1 PLC ±.01		APPLICATION SPEC		CAGE CODE 114-13038	
2 PLC ±.01		WEIGHT		RESTRICTED TO	
3 PLC ±.01		CUSTOMER DRAWING		SCALE 4:1	
4 PLC ±.01		SHEET 4		OF 13	
5 PLC ±.01		REV J5			
ANGLES ±.002					
FINISH					

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

PART NUMBER	ROWS		POWER		S I G N A L					POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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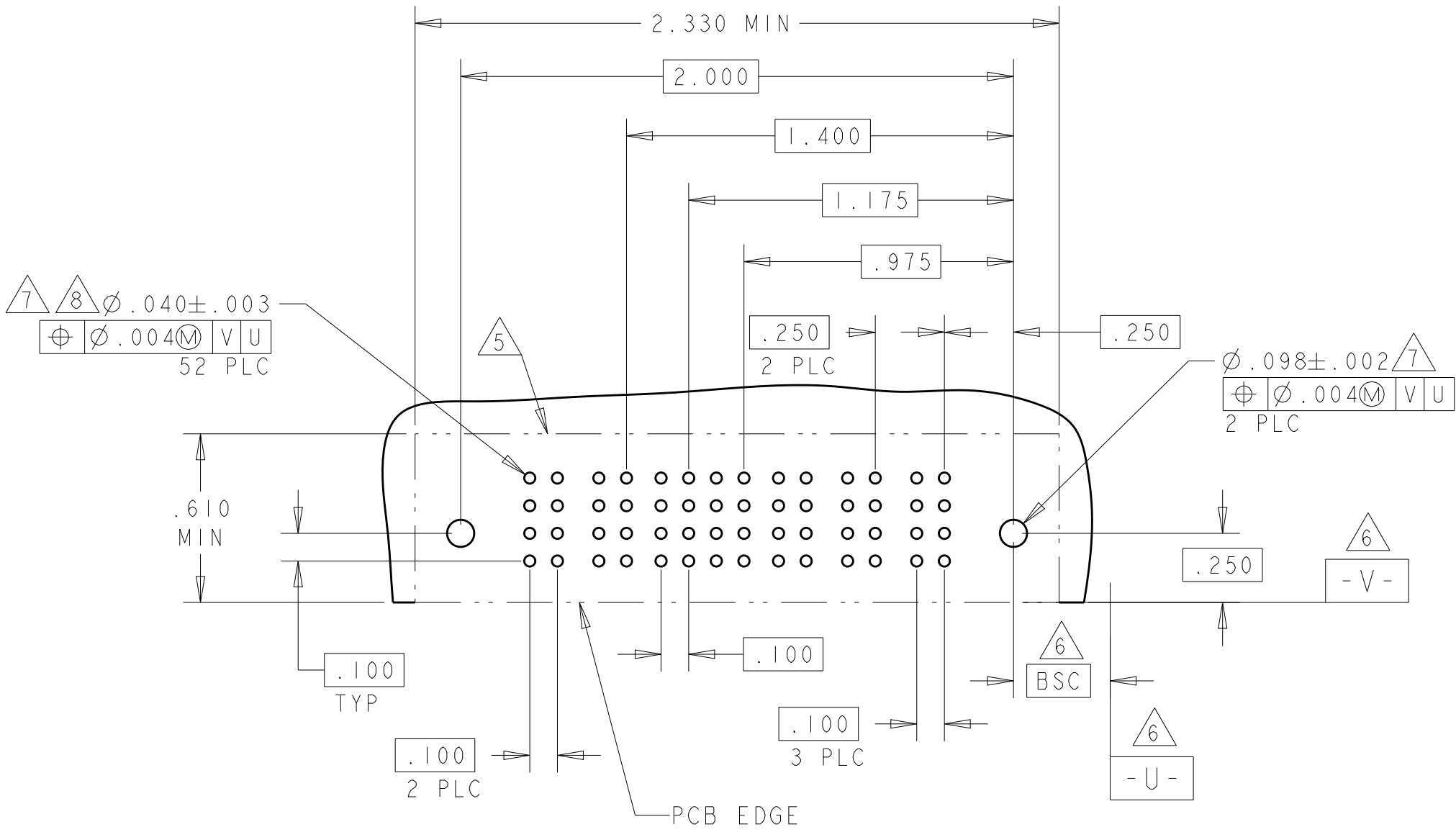


PART NUMBER	ROWS	POWER				SIGNAL								POWER			
		P8	P7	P6	P5	7	6	5	4	3	2	1	P4	P3	P2	P1	
1-6450170-1	D C B A		RM	RM	RM	RM	H	H	H	H	H	H	H	RM	RM	RM	RM
			G	G	G	G	G	G	G	G	G	G	G	G			
			F	F	F	F	F	F	F	F	F	F	F	F			
			E	E	E	E	E	E	E	E	E	E	E	E			
4P + 28S + 4P																	



PART NUMBER	ROWS		POWER		SIGNAL				POWER			
			P5	P4	4	3	2	1	P3	P2	P1	
2-6450170-6	D C B A			RM	RM	H	H	H	H	RA	RA	RA
						G	G	G	G			
						F	F	F	F			
						E	E	E	E			
3P + 16S + 2P												

NO CONTACTS LOADED

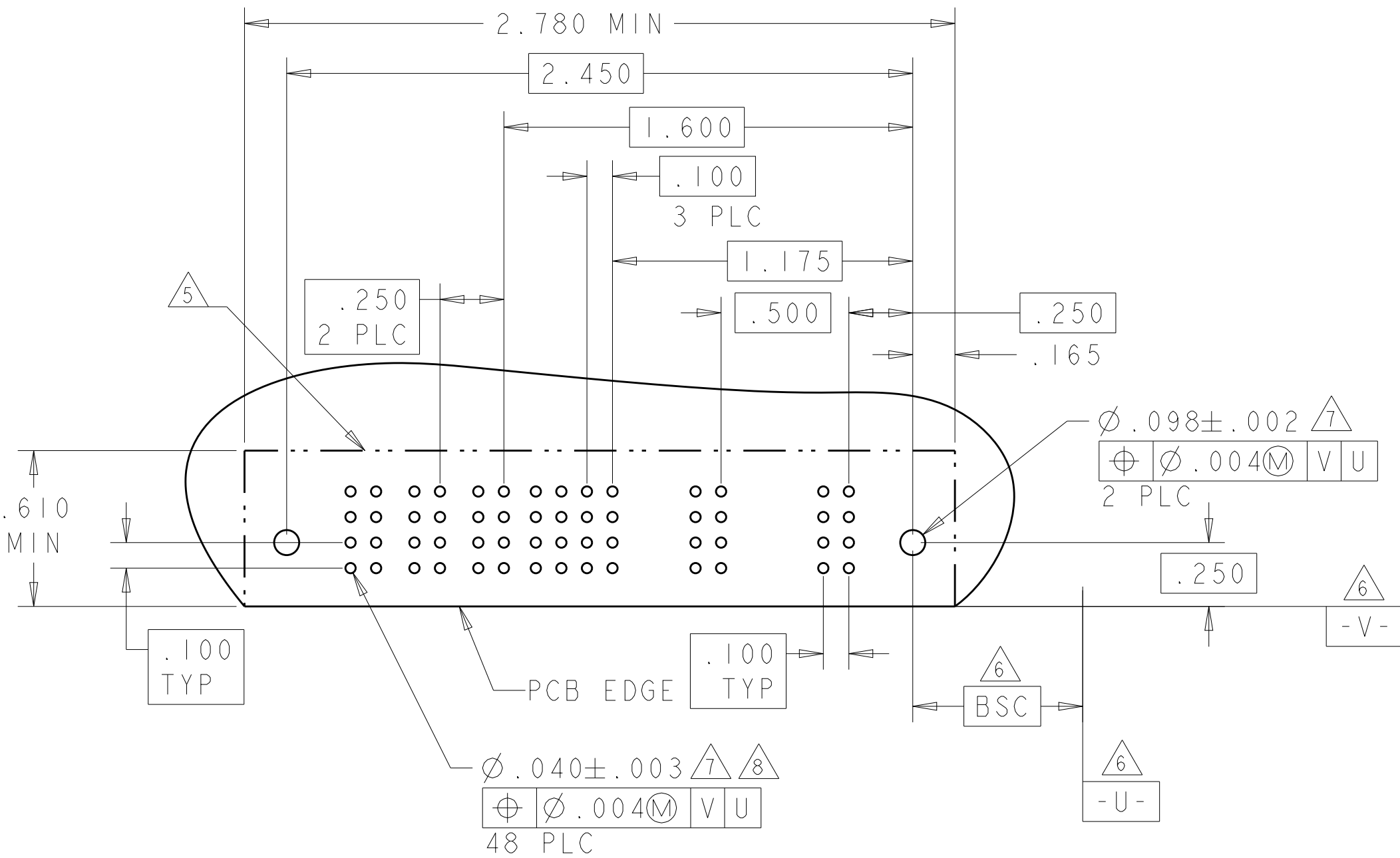


PART NUMBER	ROWS	POWER			SIGNAL							POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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NO CONTACTS LOADED

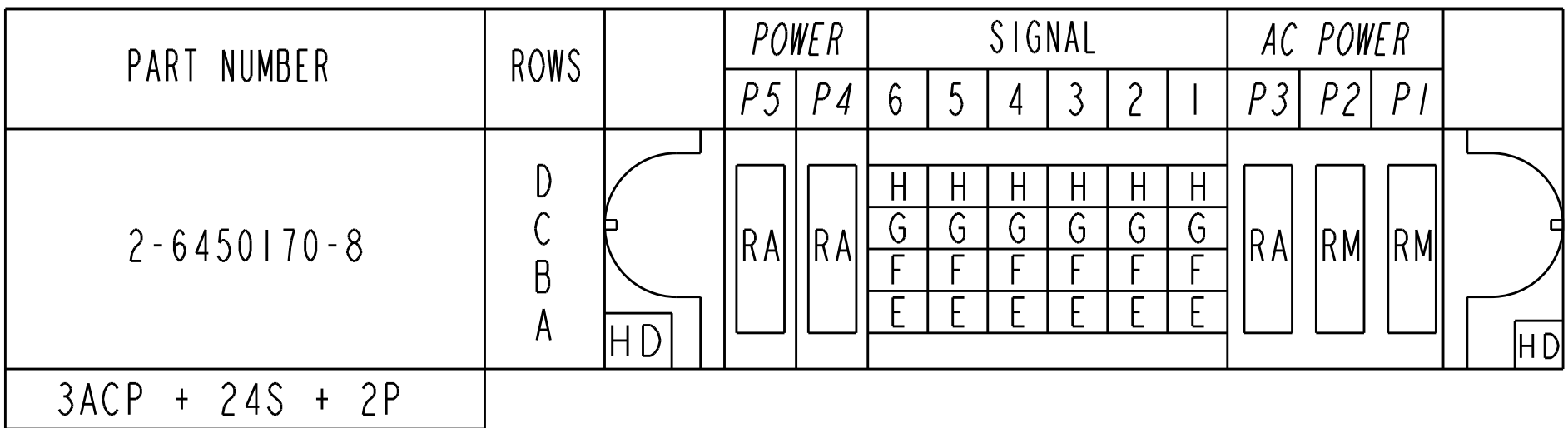
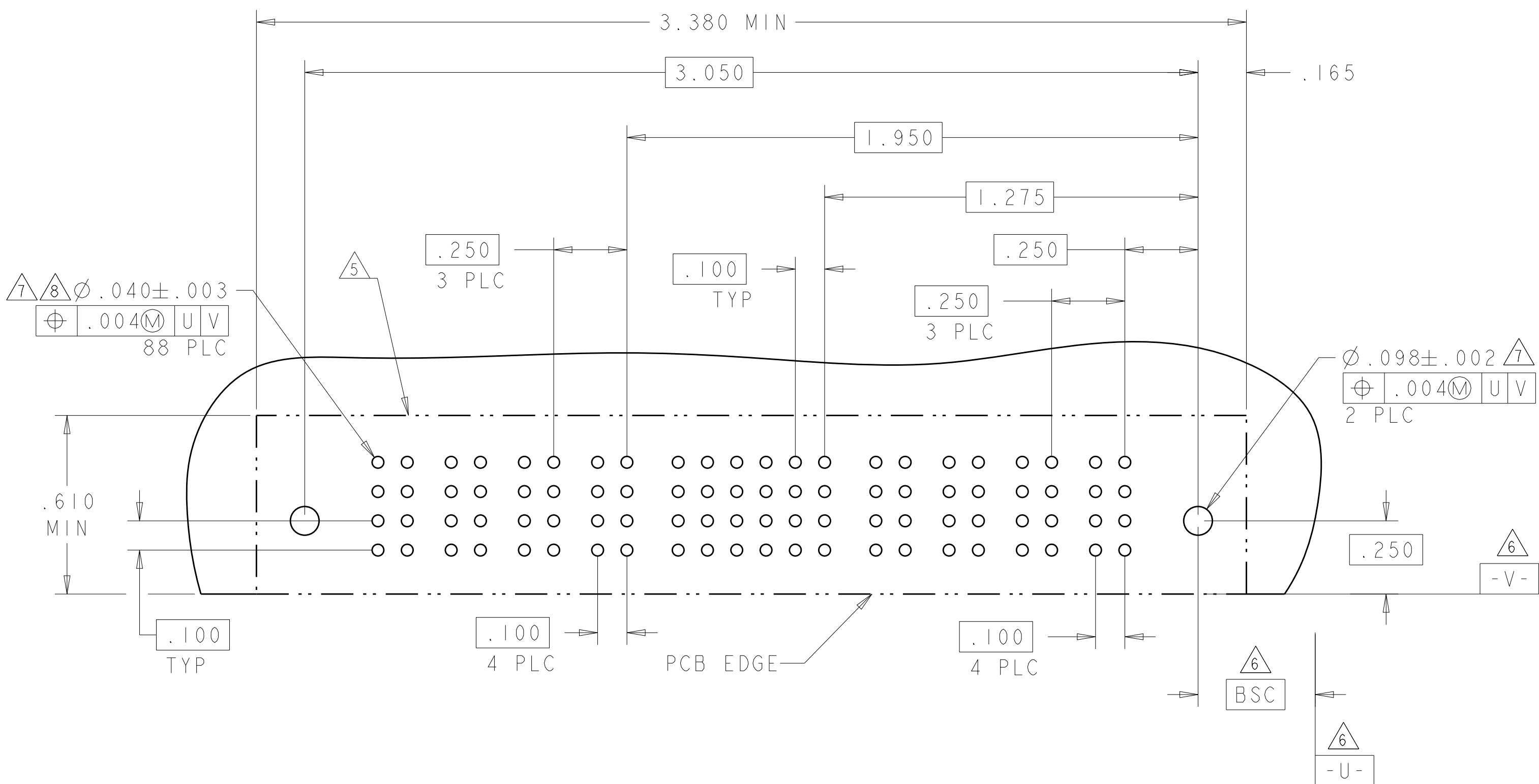
PART NUMBER	ROWS	POWER			SIGNAL							POWER		
		P6	P5	P4	6	5	4	3	2	1	P3	P2	P1	
2-6450170-9	D C B A	RM RM RA HD			H	H	H							
					G	G	G							
					F	F	F							
					E	E	E							
3P + 24S + 3P														

NO CONTACTS LOADED



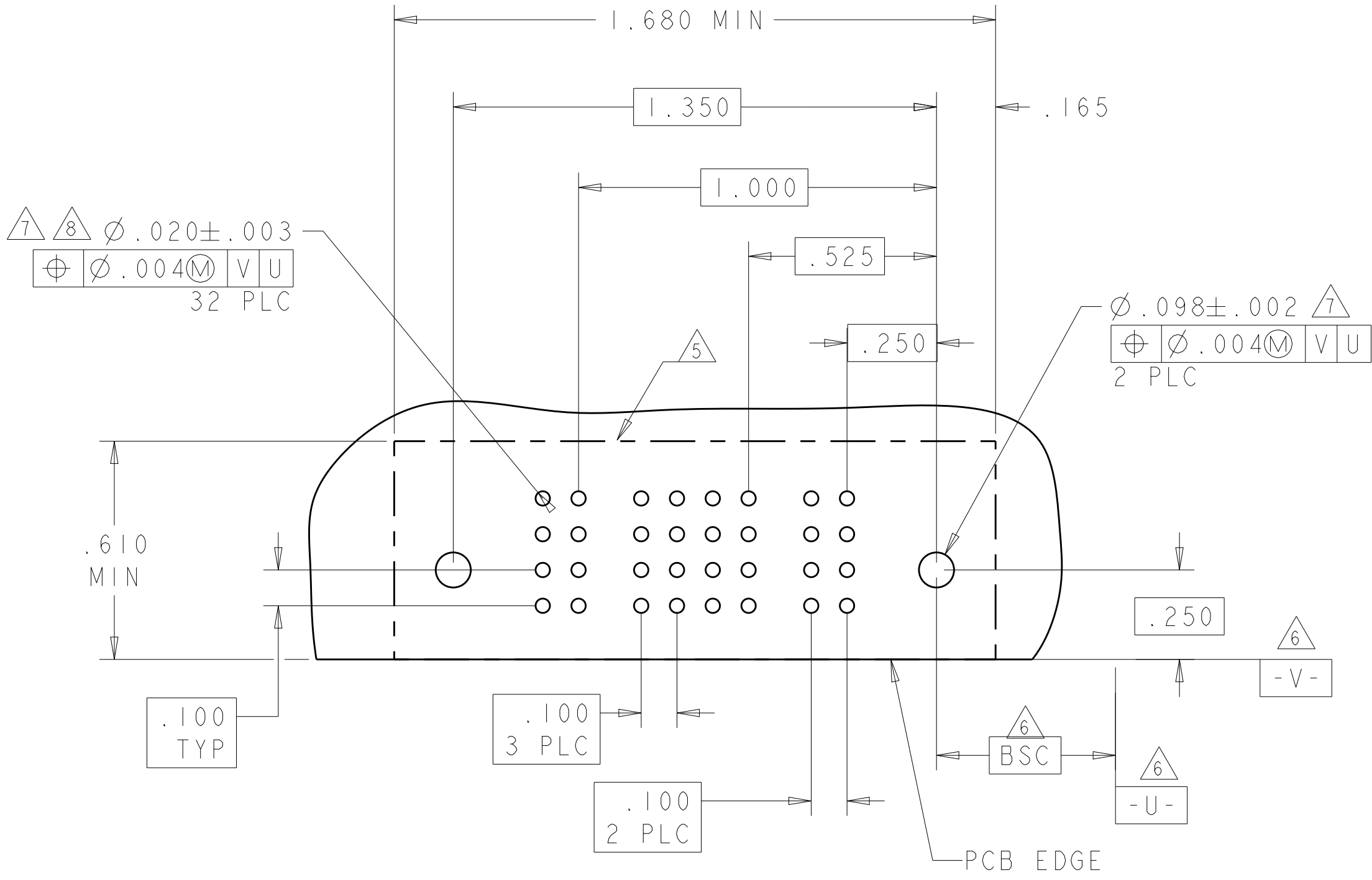
2-6450170-7 & 2-6450170-9 PCB LAYOUT

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN R. GRZYBOWSKI	21FEB05	STE TE Connectivity	
DIMENSIONS: INCHES		CHK M. PERCHERKE	21FEB05		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD M. PERCHERKE	-	NAME RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL	
0 PLC ±.01		PRODUCT SPEC		SIZE	
1 PLC ±.01		APPLICATION SPEC		CAGE CODE	
2 PLC ±.005		DRAWING NO		DRAWING NO	
3 PLC ±.002		114-13038		100779	
4 PLC ±.0020		WEIGHT		C=6450170	
FINISH		CUSTOMER DRAWING		SCALE	
-		-		4:1	
				SHEET	
				5 OF 13	
				REV	
				J5	

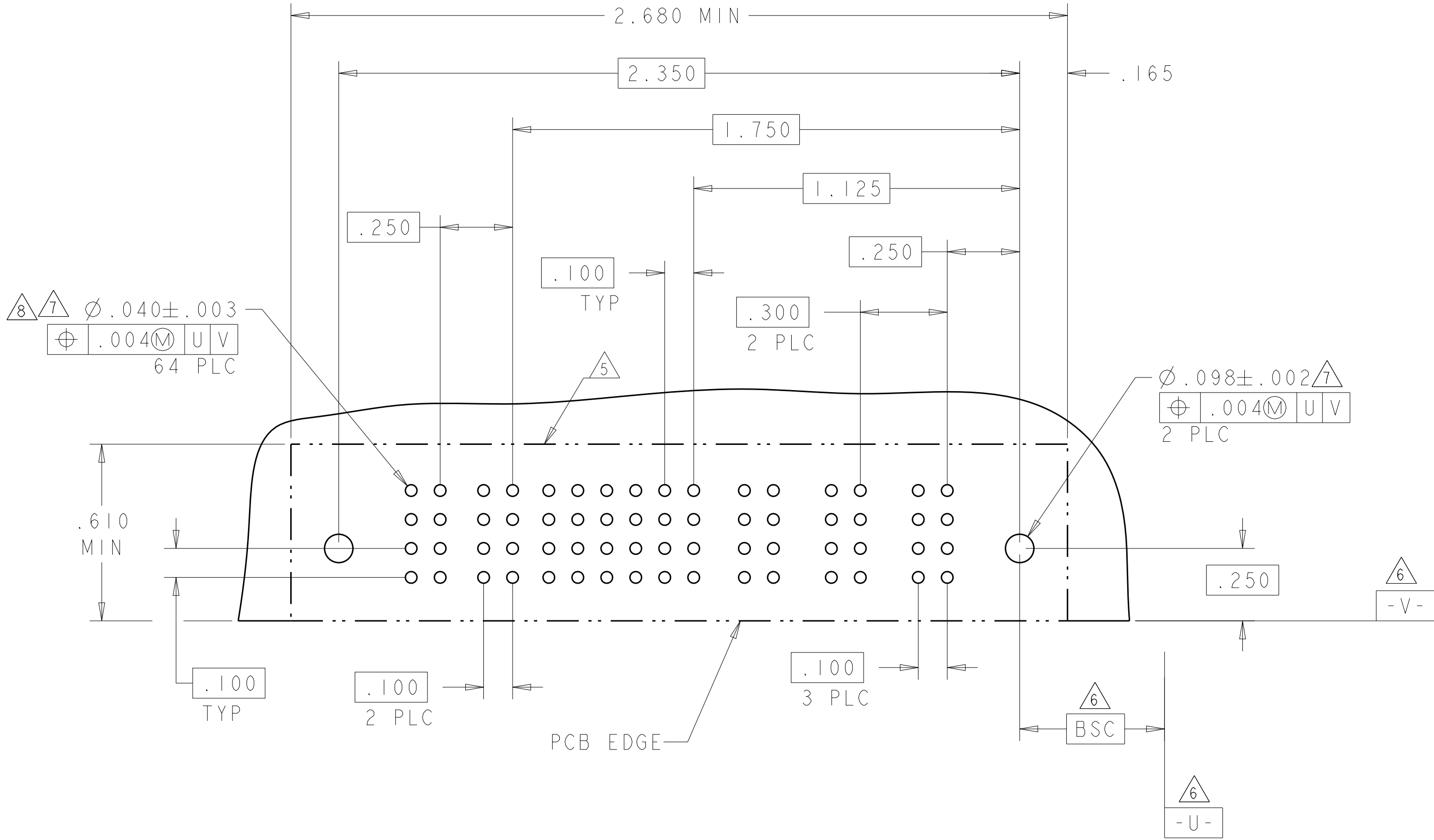
[illegible]4805 (3/11)

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

PART NUMBER	ROWS		POWER	SIGNAL				POWER	
			P2	4	3	2	1	P1	
2-6450170-0	D C B A		 RM	H	H	H	H	 RM	
				G	G	G	G		
				F	F	F	F		
				E	E	E	E		
IP + 16S + IP		 HD							 HD



PART NUMBER	ROWS		POWER		SIGNAL							AC POWER			
			P5	P4	6	5	4	3	2	1	P3	P2	P1		
3-6450170-0	D C B A				H	H	H	H	H	H					
					G	G	G	G	G	G					
					F	F	F	F	F	F					
					E	E	E	E	E	E					
3ACP + 24S + 2P															



THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN

R.GRZYBOWSKI

21FEB05

CHK

M.PERCHEKKE

21FEB05

APVD

M.PERCHEKKE

-

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

108-1973

APPLICATION SPEC

114-13038

WEIGHT

-

CUSTOMER DRAWING

NAME

RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE

CAGE CODE

DRAWING NO

A100779

C=6450170

RESTRICTED TO

-

SCALE

4:1

SHEET

7

OF

13

REV

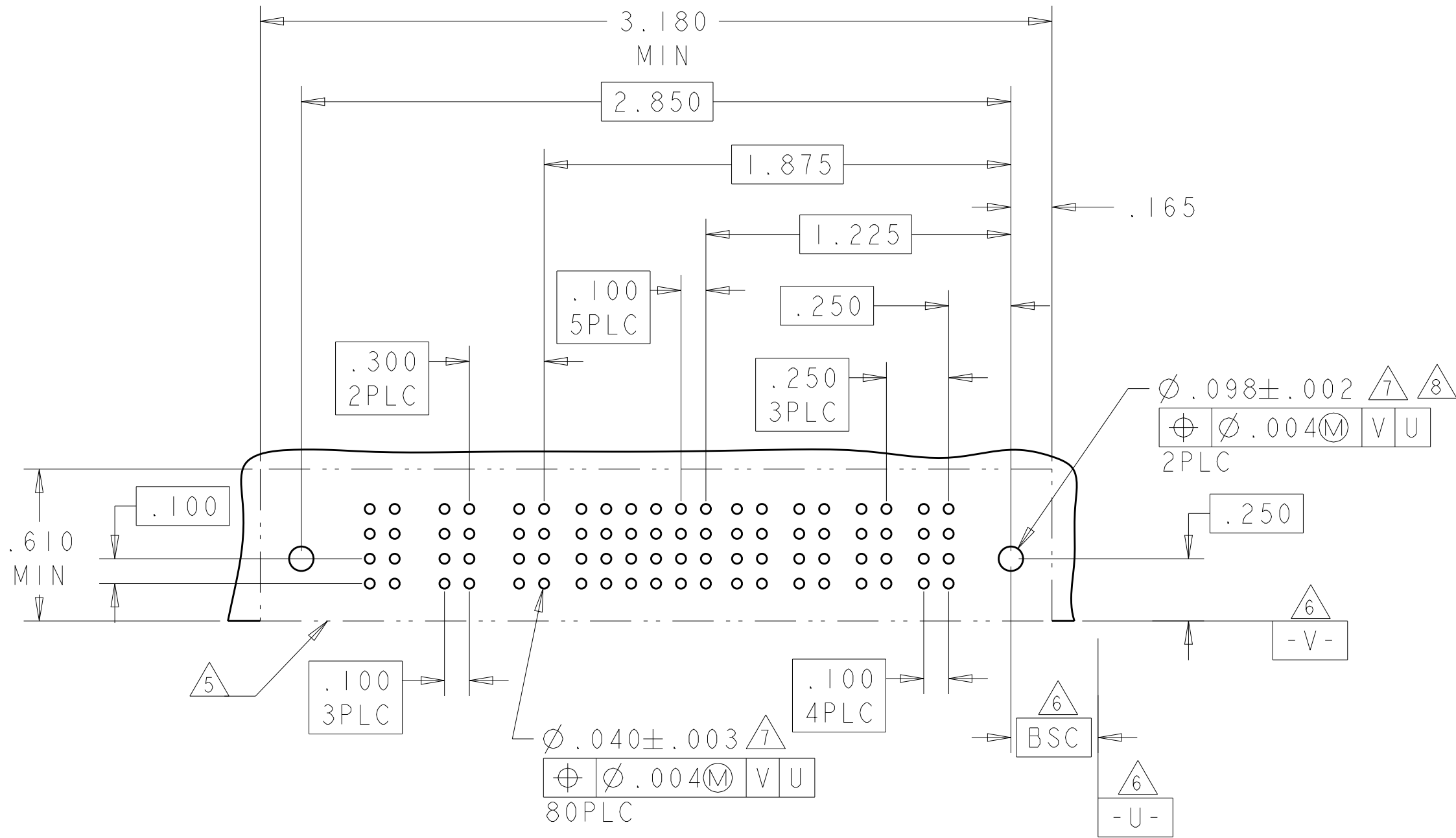
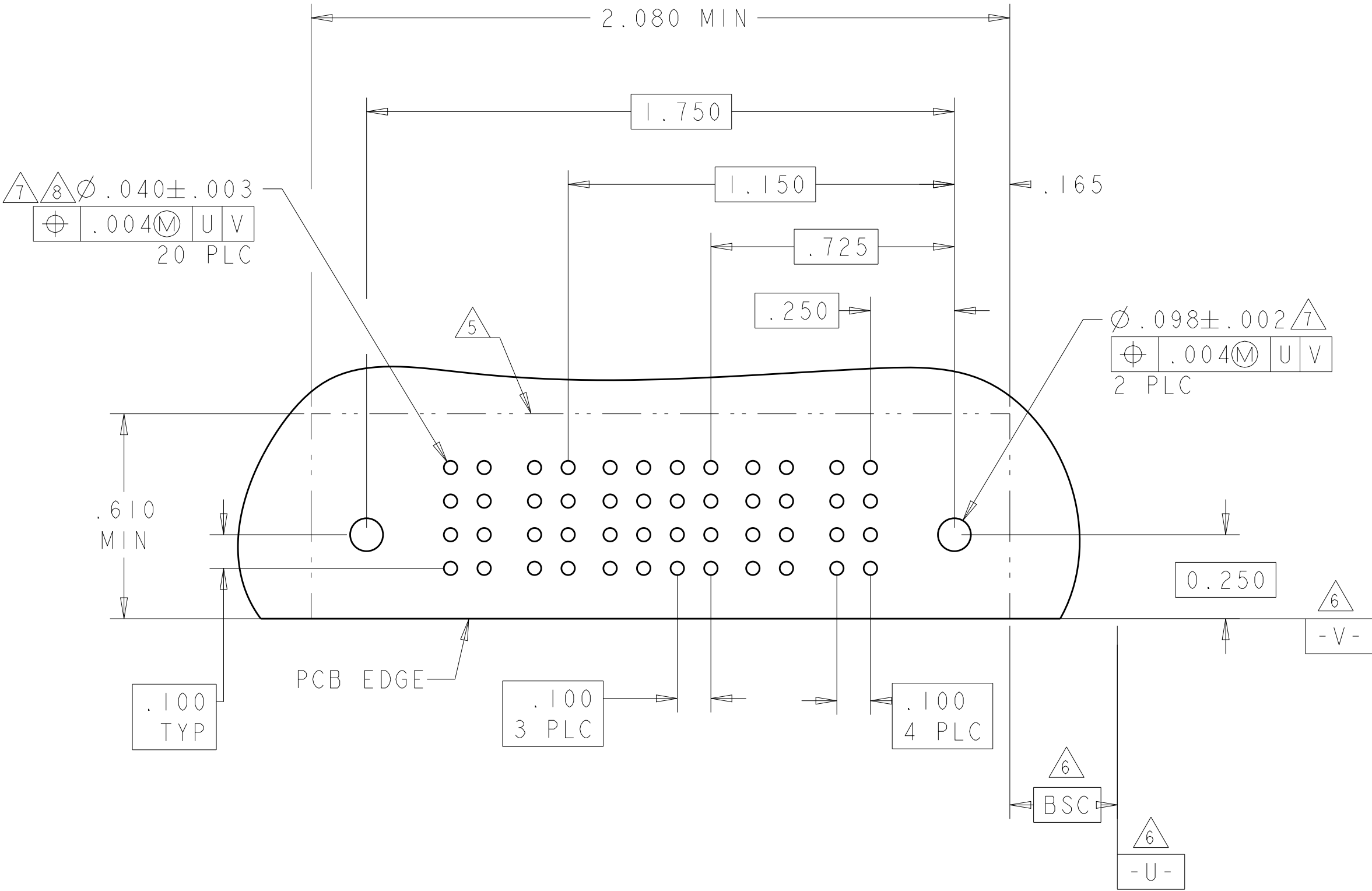
J5

TE Connectivity

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

PART NUMBER	ROWS		POWER		SIGNAL				POWER		
			P4	P3	4	3	2	1	P2	P1	
3-6450170-1	D		RM	RA	H	H	H	H	RA	RM	
	C				G	G	G	G			
	B				E	E	E	E			
	A	HD			F	F	F	F			
2P + 16S + 2P											

PART NUMBER	ROWS		POWER			SIGNAL						POWER				
			P7	P6	P5	6	5	4	3	2	1	P4	P3	P2	P1	
1-6450170-8	D		RM	RM	RA	H	H	H	H	H	H	RM	RM	RM	RM	
	C					G	G	G	G	G	G					
	B					F	F	F	F	F	F					
	A					E	E	E	E	E	E					
4P + 24S + 3ACP																



THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN: R.GRZYBOWSKI 21FEB05
CHK: M.PERCHEKKE 21FEB05
APVD: M.PERCHEKKE

PRODUCT SPEC: 108-1973
APPLICATION SPEC: 114-13038
WEIGHT: -
CUSTOMER DRAWING

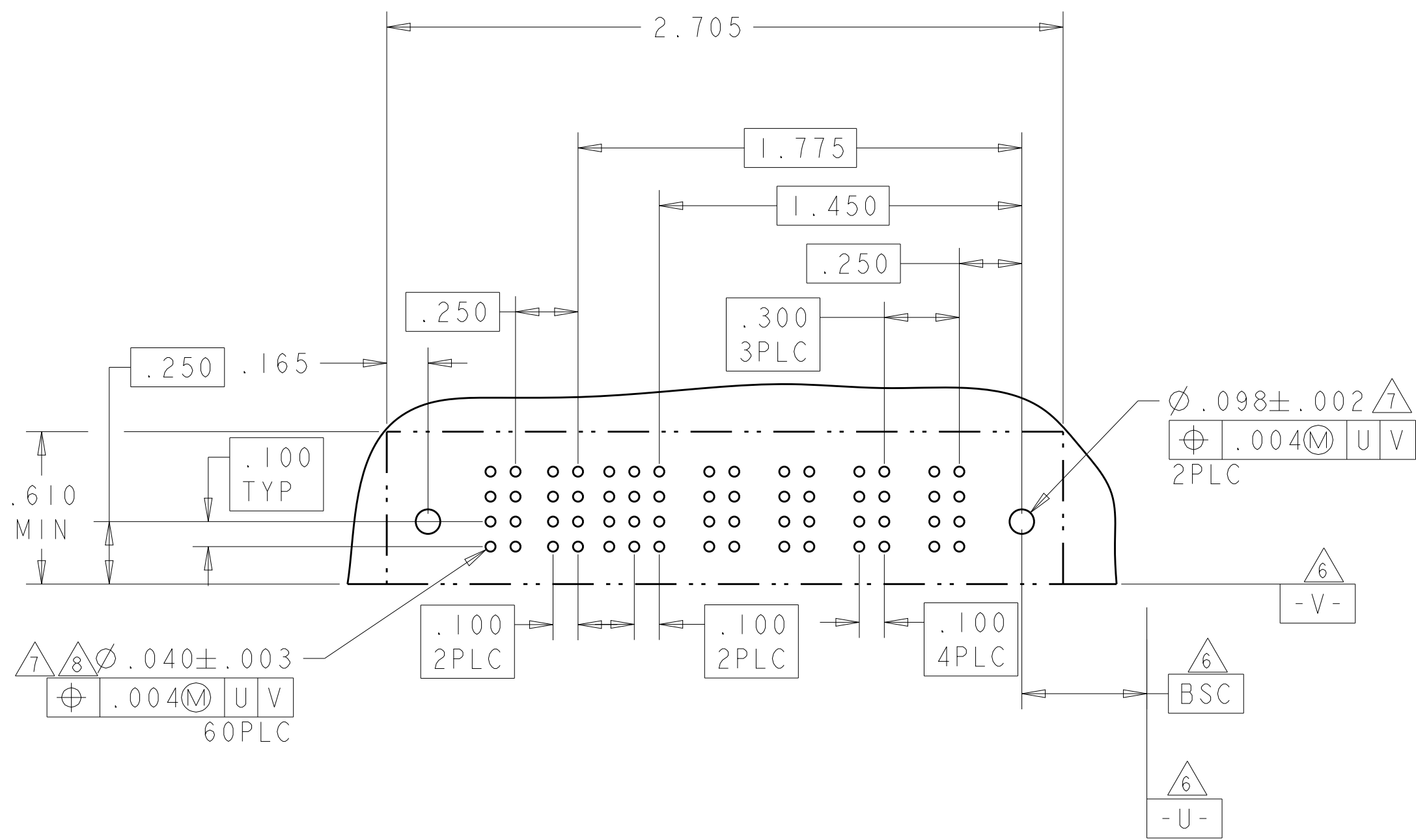
DIMENSIONS: INCHES

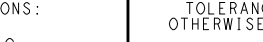
TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±.01
1 PLC ±.01
2 PLC ±.01
3 PLC ±.005
4 PLC ±.0020
ANGLES ±.2°
FINISH -

NAME: RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

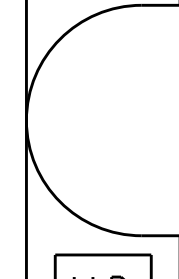
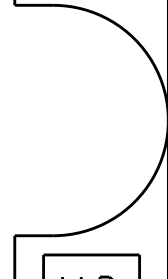
SIZE: A1
CAGE CODE: 00779
DRAWING NO: C=6450170

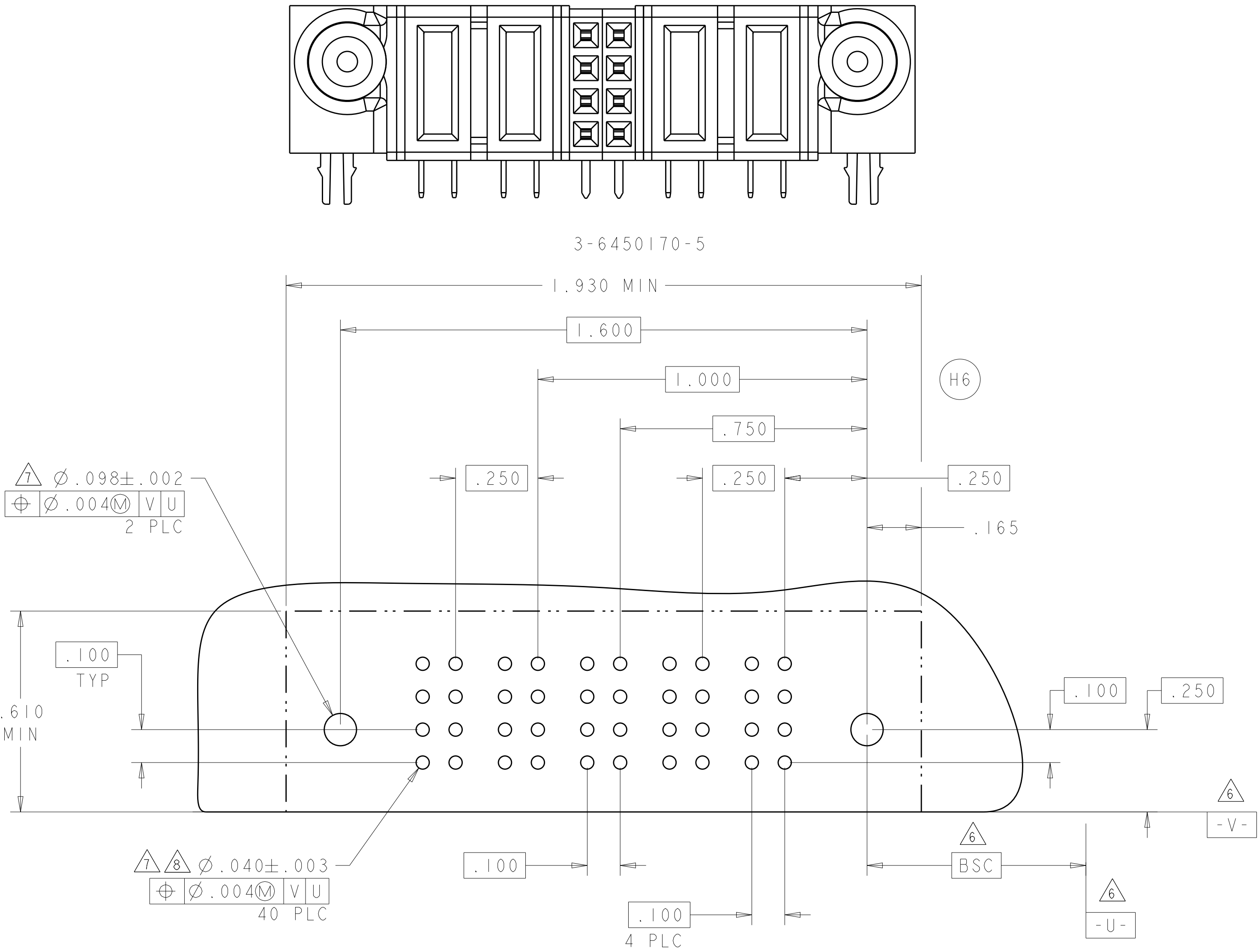
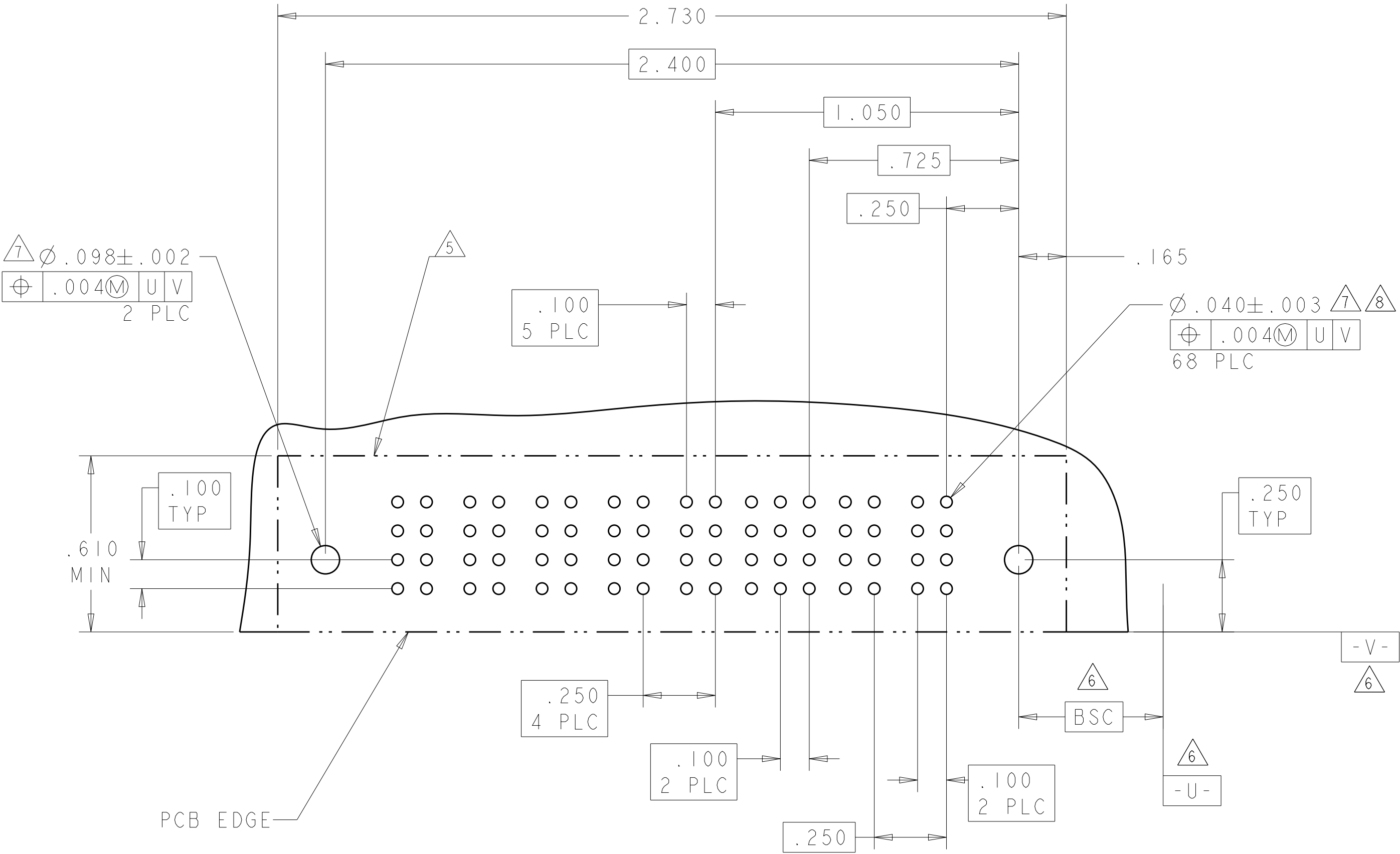
RESTRICTED TO: -
SCALE: 4:1
SHEET: 8 OF 13
REV: J5

[illegible]

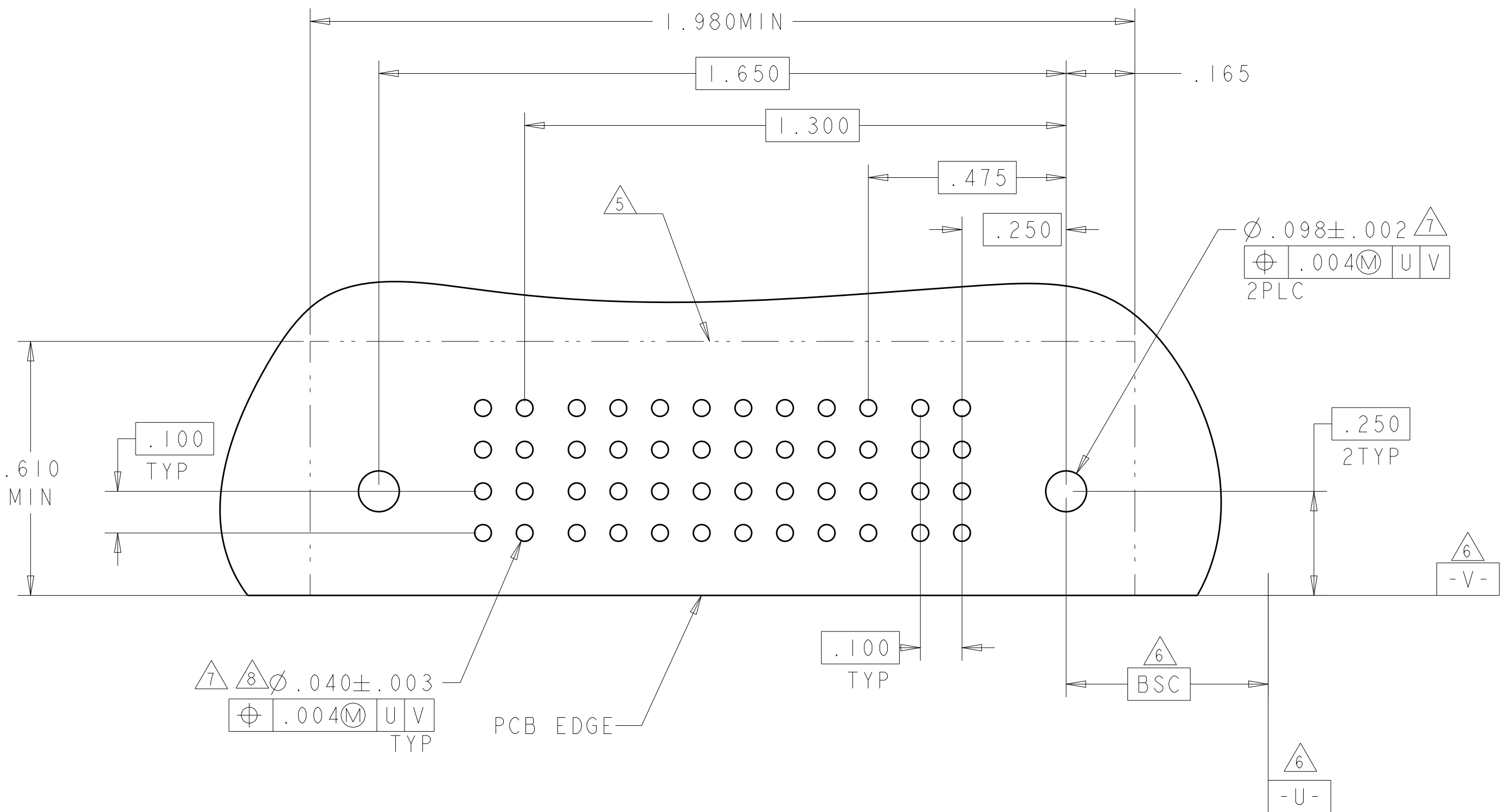
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R. GRZYBOWSKI 21FEB05 CHN M. PERCHERKE 21FEB05		 TE Connectivity	
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 P/LC ±. 1 P/LC ±.01 2 P/LC ±.005 4 P/LC ±.0020 ANGLES ±°		NAME RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL	
		PRODUCT SPEC 108-1973 APPLICATION SPEC 114-13038		SIZE CASE CODE DRAWING NO RESTRICTED TO A 00779 C-6450170 -	
MATERIAL -		FINISH -		WEIGHT -	
CUSTOMER DRAWING				SCALE 4:1 SHEET 9 OF 13 REV J5	

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

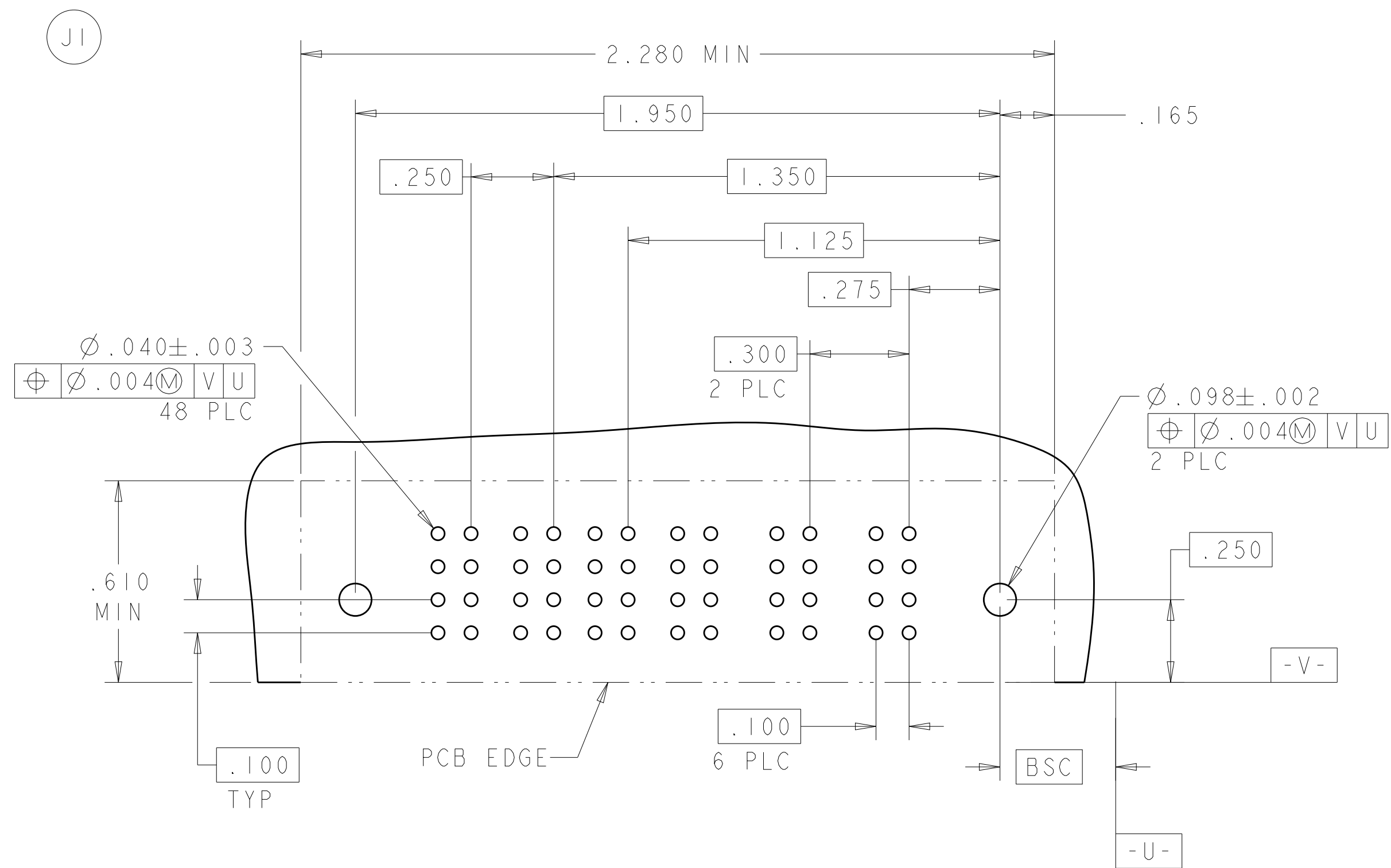
PART NUMBER	ROWS		POWER		SIGNAL		POWER		
			P4	P3	2	1	P2	P1	
3-6450170-5	D C B A		RA	RA	H	H	RM	RM	
					G	G			
					F	F			
					E	E			
					2P + 8S + 2P				



PART NUMBER	ROWS		POWER	SIGNAL								POWER	
			P2	8	7	6	5	4	3	2	1	P1	
3-6450170-7	D C B A			H	H	H	H	H	H	H	H		
				G	G	G	G	G	G	G	G		
				F	F	F	F	F	F	F	F		
				E	E	E	E	E	E	E	E		
IP + 32S + IP													

4805 (3/11)

PART NUMBER	ROWS		POWER		SIGNAL		POWER			
			P5	P4	2	1	P3	P2	P1	
3-6450170-9	D C B A				H	H				
					G	G				
					F	F				
					E	E				
3ACP + 8S + 2P										



TE RECOMMENDED PCB LAYOUT

4805 (3/11)

PART NUMBER	ROWS		POWER							SIGNAL						POWER		
			P8	P7	P6	P5	P4	P3	6	5	4	3	2	1	P2	P1		
4-6450170-1	D		RM		RM		RA		H	H	H	H	H		RM	RM		
	G								G	G	G	G						
	F								F	F	F	F						
	E								E	E	E	E						
2P + 24S + 6P		HD																HD

This drawing provides a detailed view of the PCB edge connector, showing the arrangement of pins and various manufacturing specifications. Key features include:

- Overall Dimensions:** The total width of the connector is specified as 3.030 MIN.
- Pin Pitch and Spacing:** The distance between the centerlines of the pin rows is 2.700. Individual pin spacing is .400.
- Pin Dimensions:** The pin diameter is $\varnothing .040 \pm .003$. The pin length is .610 MIN. The pin thickness is .040 TYP.
- Pin Array:** The pins are arranged in a grid. The number of pins per row is 5. The number of pins per column is 2. The total number of pins is 10.
- Feature Callouts:**
 - 5:** Points to the pin array.
 - 6:** Points to the pin thickness.
 - 7:** Points to the pin diameter.
 - 8:** Points to the pin length.
 - 9:** Points to the pin thickness.
 - 10:** Points to the pin diameter.
 - 11:** Points to the pin length.
 - 12:** Points to the pin thickness.
 - 13:** Points to the pin diameter.
 - 14:** Points to the pin length.
 - 15:** Points to the pin thickness.
 - 16:** Points to the pin diameter.
 - 17:** Points to the pin length.
 - 18:** Points to the pin thickness.
 - 19:** Points to the pin diameter.
 - 20:** Points to the pin length.
 - 21:** Points to the pin thickness.
 - 22:** Points to the pin diameter.
 - 23:** Points to the pin length.
 - 24:** Points to the pin thickness.
 - 25:** Points to the pin diameter.
 - 26:** Points to the pin length.
 - 27:** Points to the pin thickness.
 - 28:** Points to the pin diameter.
 - 29:** Points to the pin length.
 - 30:** Points to the pin thickness.

4805 (3/11)

Mouser Electronics

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[TE Connectivity:](#)

[2-6450170-7](#)