



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

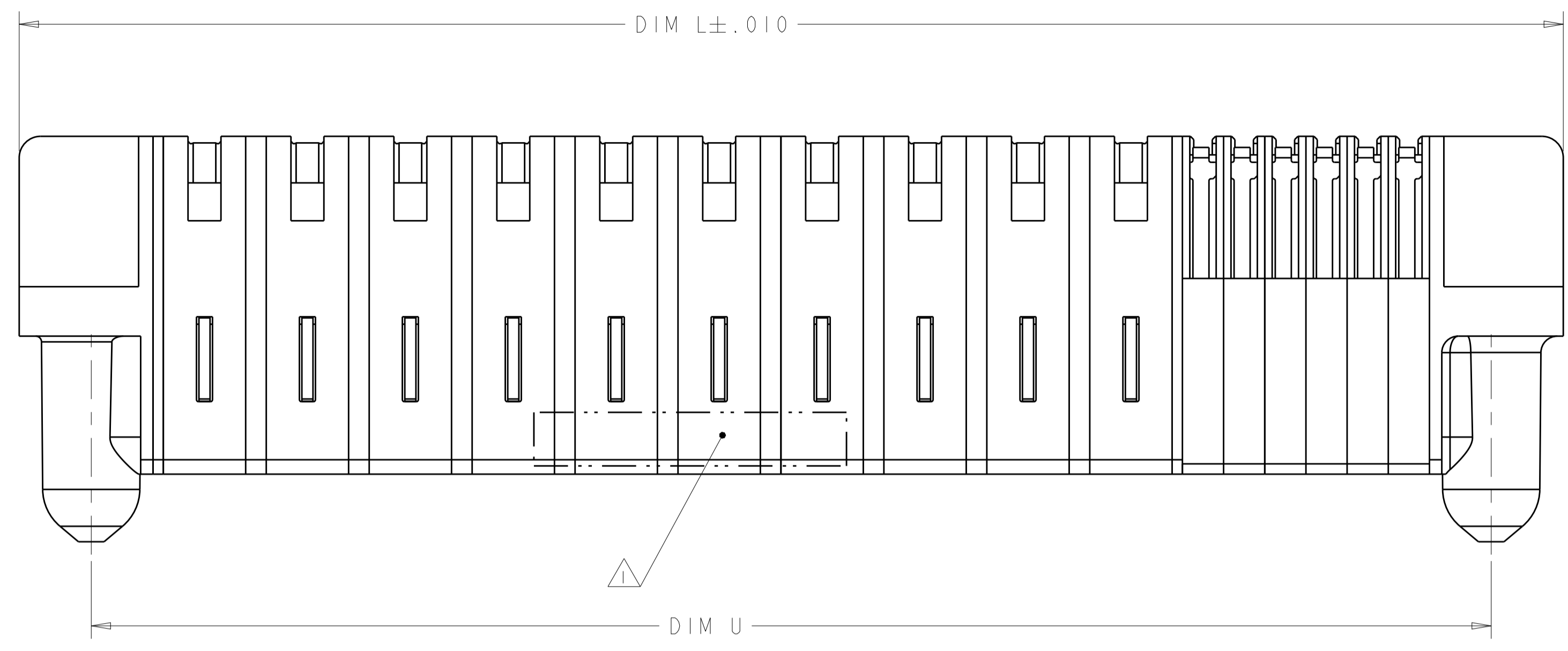
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

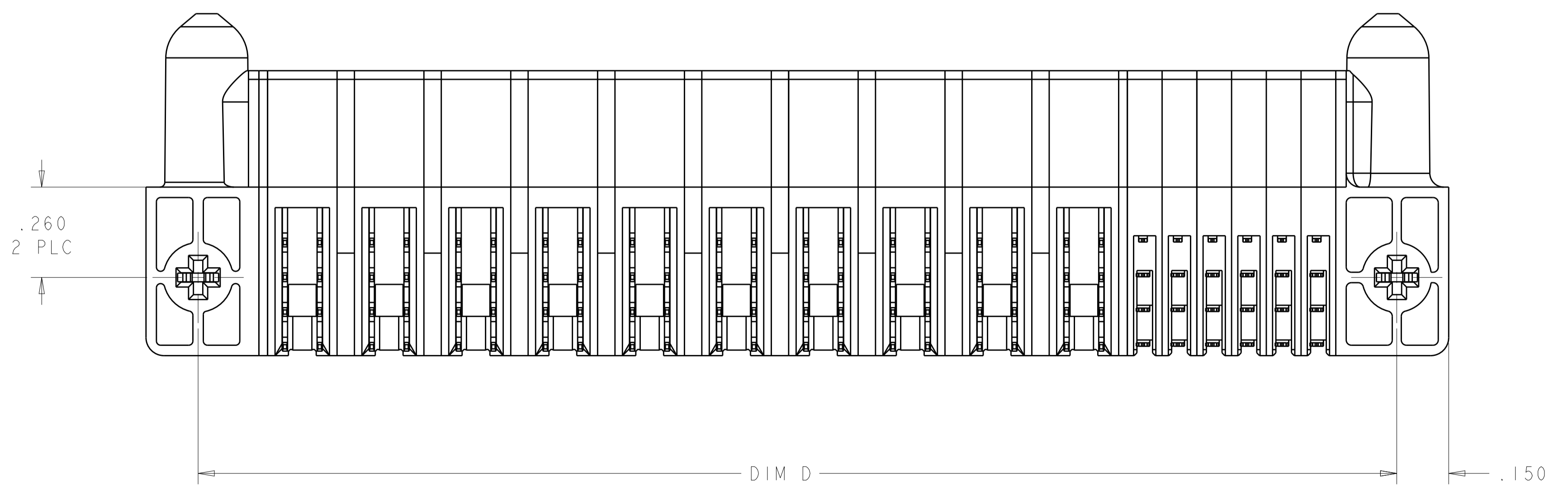
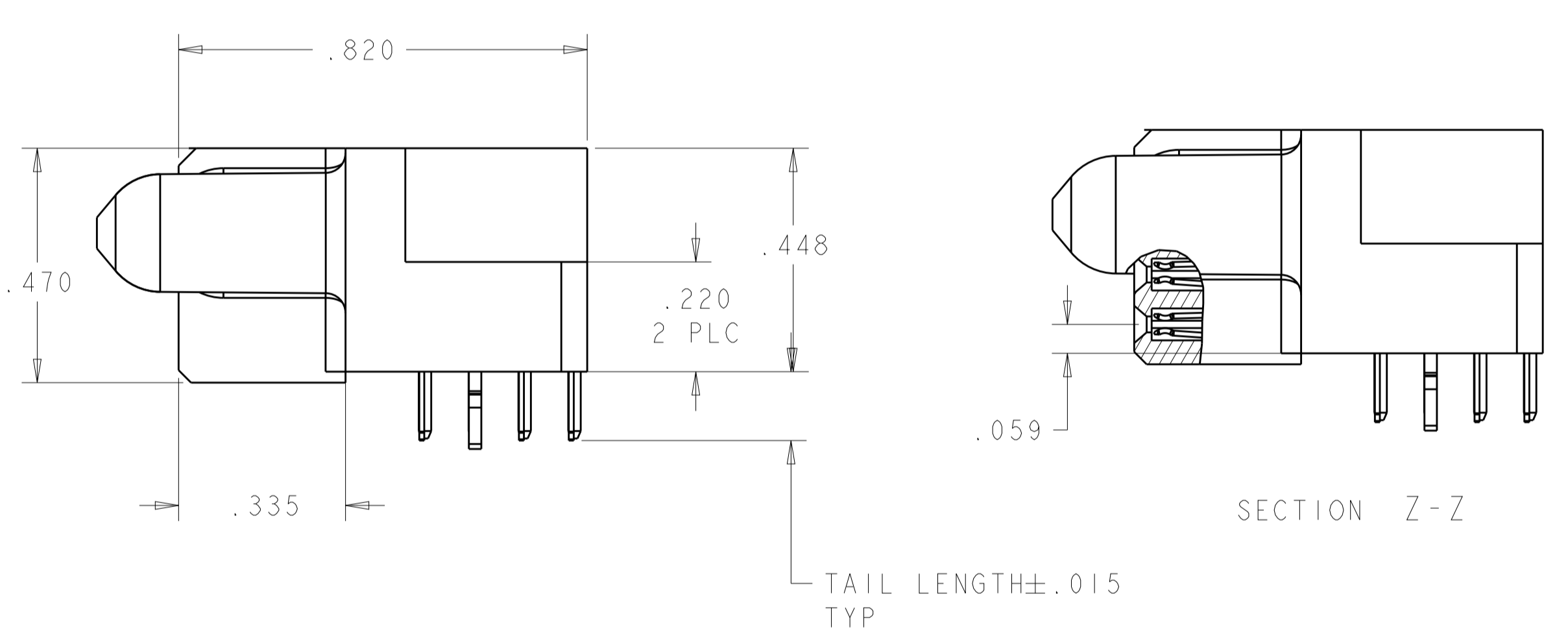
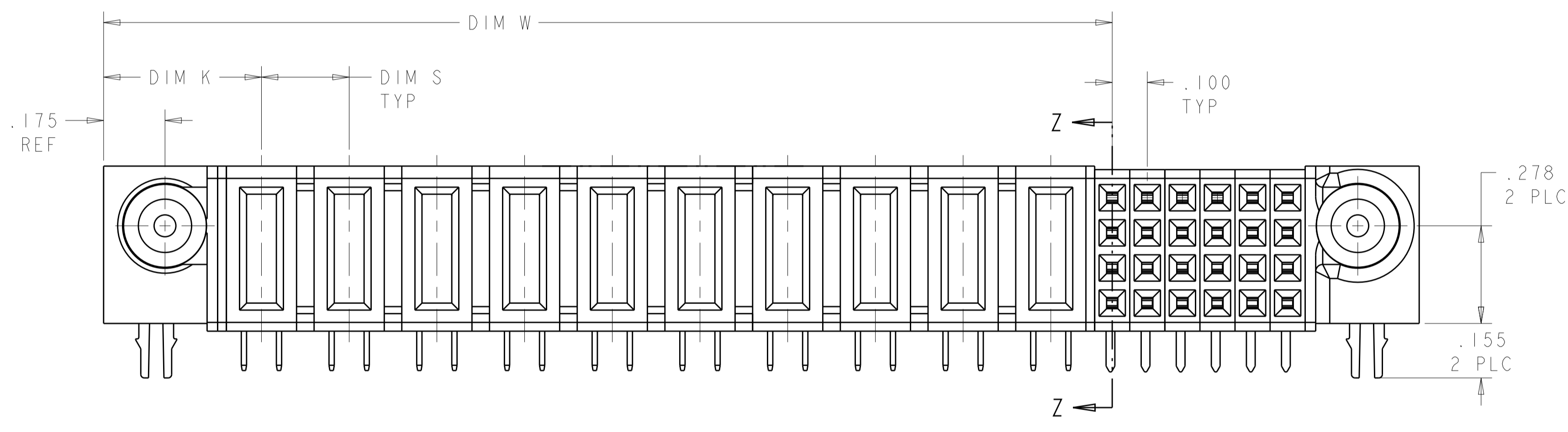
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



LOC		DIST		REVISIONS			
ES	00	P	LTM	DESCRIPTION	DATE	DMN	APVD
		D5		REV PER ECR-12-018919	31OCT2012	ML	SZ
		D6		UPDATED	12NOV2012	ML	SZ



- 1 "AMP", PART NUMBER, AND DATE CODE TO BE MARKED IN AREA SHOWN.
- 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 - .0453 +/- .0010 DRILLED HOLES PLATED WITH .0003 MIN Sn OVER .001 TO .003 PLATING TO ACHIEVE A .040 DIA. HOLE.
- 8 RECEPTACLE ASSY HAS ONE MOUNTING HOLE AND ONE HOLD DOWN.
- 9 NOT RELEASED FOR PRODUCTION.



D4	2.400	.250	1.875	2.450	-	2.750	.450	24S + 6P	1-6450161-7
	1.600	.250	1.375	1.650	-	1.950	.450	12S + 4P	1-6450161-6
	1.600	.250	1.375	1.650	-	1.950	.450	12S + 4P	1-6450161-5
	1.700	.250	1.375	1.750	-	2.050	.450	16S + 4P	1-6450161-3
9	3.800	.250	2.875	3.850	-	4.150	.450	40S + 10P	1-6450161-1
	1.800	.250	1.375	1.850	-	2.150	.450	20S + 4P	1-6450161-0
	2.900	.250	2.375	2.950	-	3.250	.450	24S + 8P	6450161-6
	1.800	.250	1.375	1.850	-	2.150	.450	20S + 4P	6450161-5
8	4.400	.250	3.875	4.450	-	4.750	.450	24S + 14P	6450161-4
	3.400	.250	2.875	3.450	-	3.750	.450	24S + 10P	6450161-3
	2.400	.250	1.875	2.450	-	2.750	.450	24S + 6P	6450161-2
	1.700	.250	1.375	1.750	-	2.050	.450	16S + 4P	6450161-1
	DIM U	DIM S	DIM W	DIM D	DIM M	DIM L	DIM K	DESCRIPTION	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT. DWN: R. GRZYBOWSKI, Z1FEB05  
 CHK: M. PERCZERKE, Z1FEB05

TE CONNECTIVITY

RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES, END MODULES MULTI-BEAM XL

108-1973 APPLICATION SPEC  
 114-13038 CUSTOMER DRAWING

SCALE: 4:1 SHEET 1 OF 6 REV: D6

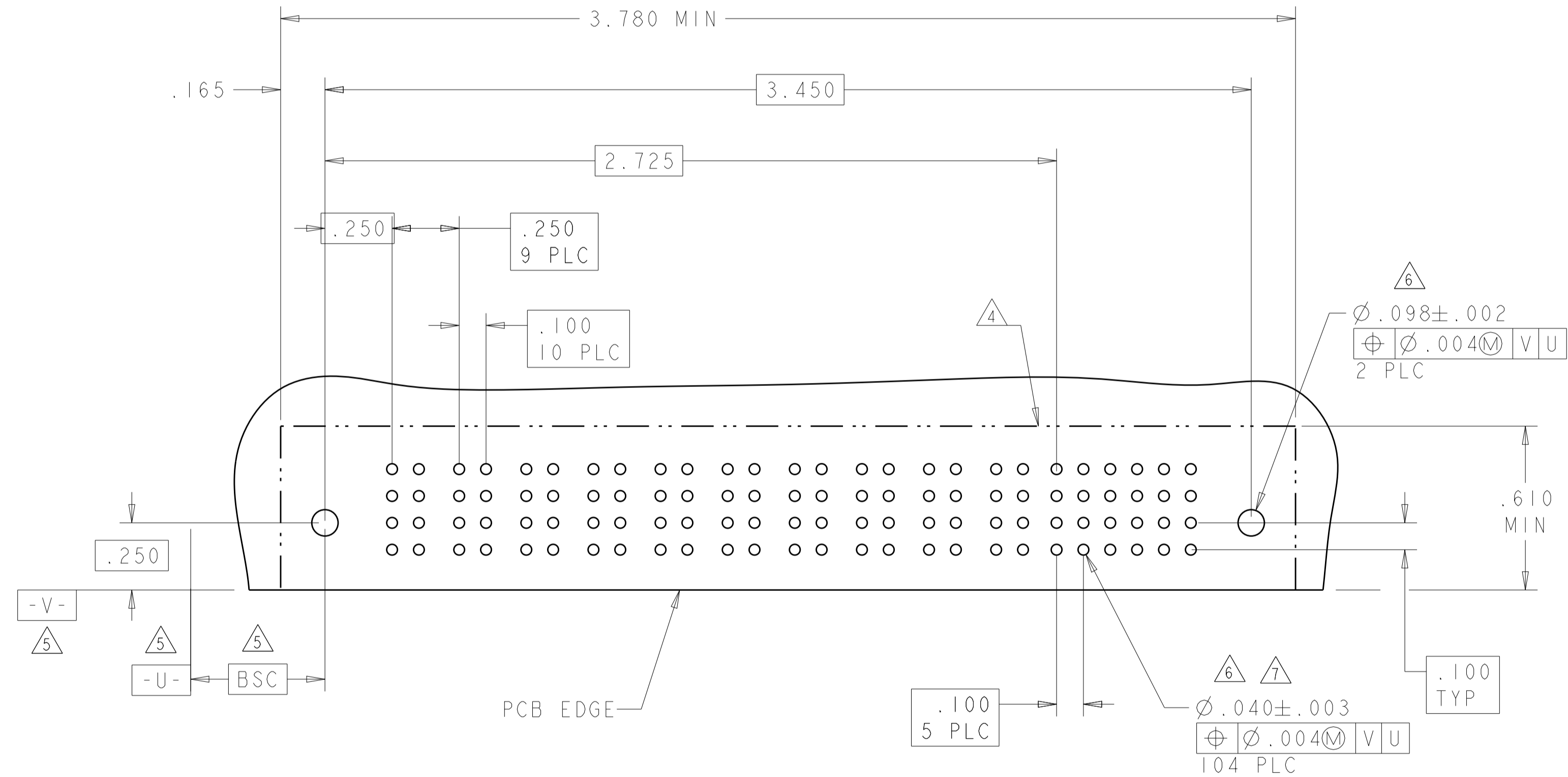
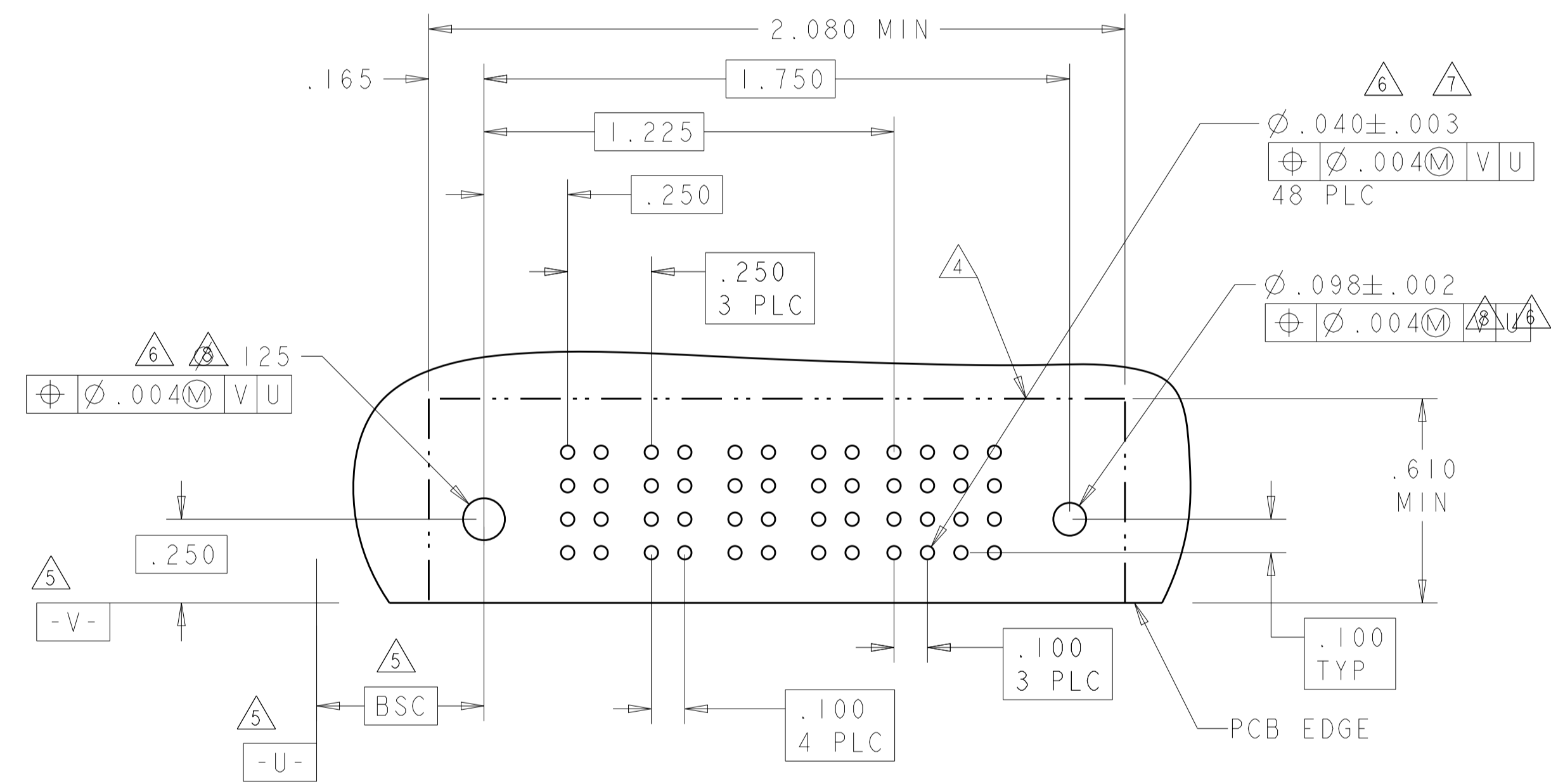
LOC	DIST	REV	DATE	BY	APPV
ES	00				

REVISIONS		DATE	BY	APPV
1	SEE SHEET 1			

PART NUMBER	ROWS	POWER				SIGNAL				HD
		P4	P3	P2	P1	4	3	2	1	
6450161-1	D C B A	RA	RA	RA	RA	H	H	H	H	
						G	G	G	G	
						F	F	F	F	
						E	E	E	E	
16S + 4P										

PART NUMBER	ROWS	POWER										SIGNAL					HD			
		P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	6	5	4	3	2		1		
6450161-3	D C B A	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	H	H	H	H	H	H
															G	G	G	G	G	G
															F	F	F	F	F	F
															E	E	E	E	E	E
24S + 10P																				



CODE	TAIL LENGTH	DESCRIPTION	CODE	TAIL LENGTH	ROW
RM	.135	STD	L	.090	D
RA	.135	MFBL	K	.090	C
RN	.090	STD	J	.090	B
RB	.090	MFBL	I	.090	A
			H	.135	D
			G	.135	C
			F	.135	B
			E	.135	A

POWER CONTACT			SIGNAL CONTACT		
RM	.135	STD	L	.090	D
RA	.135	MFBL	K	.090	C
RN	.090	STD	J	.090	B
RB	.090	MFBL	I	.090	A

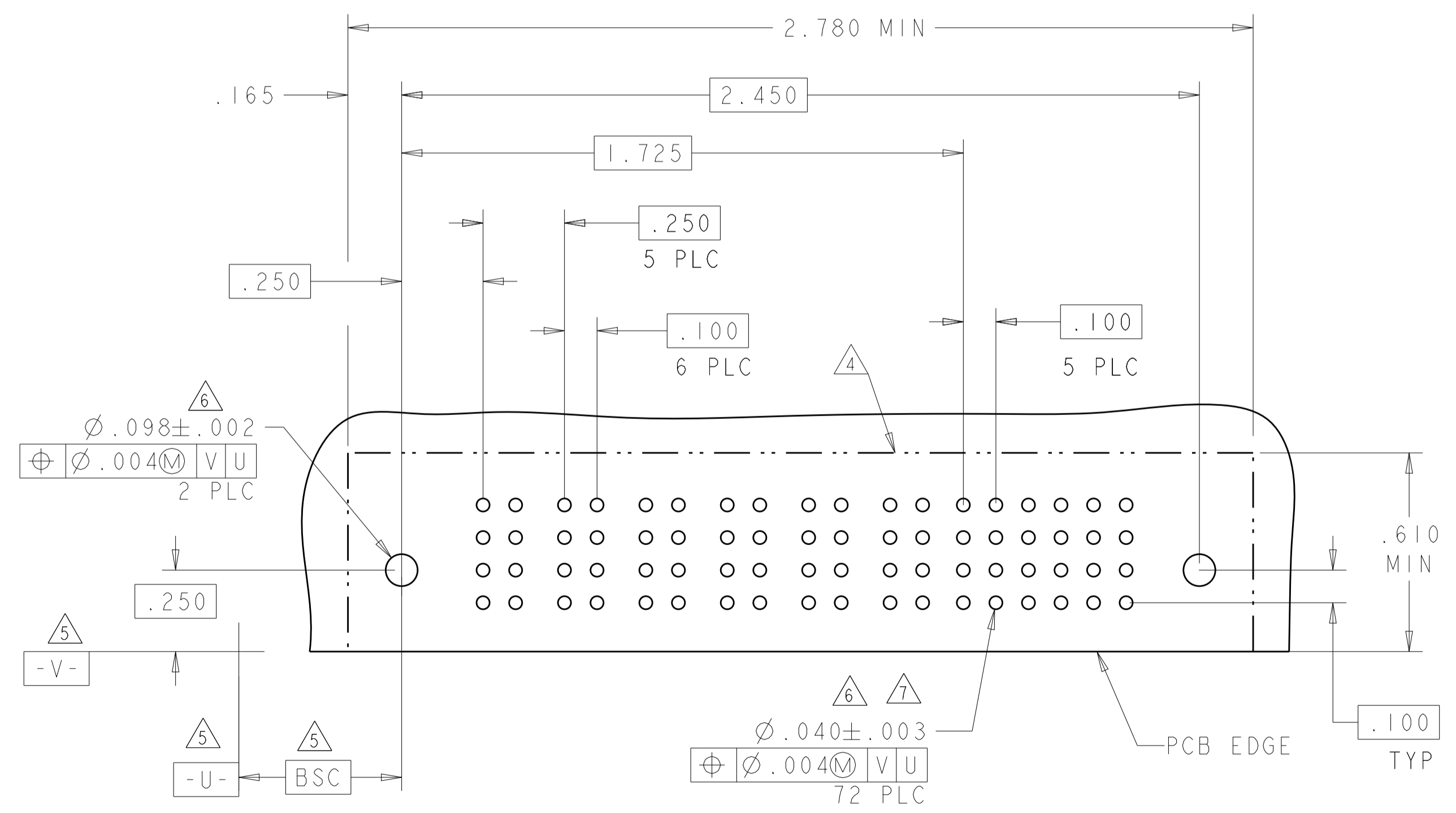
  

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: R. GRZYBOWSKI 21FEB05	 TE Connectivity
DIMENSIONS: INCHES		CHK: M. PERCERKE	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: M. PERCERKE	NAME: RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES, END MODULES MULTI-BEAM XL PRODUCT SPEC: 108-1973 APPLICATION SPEC: 114-13038 WEIGHT: - FINISH: - CUSTOMER DRAWING
0 PLC ±.01		PRODUCT SPEC: 108-1973	
1 PLC ±.01		APPLICATION SPEC: 114-13038	
2 PLC ±.01		WEIGHT: -	
3 PLC ±.01		FINISH: -	SIZE: A1
4 PLC ±.005		SCALE: 4:1	SHEET: 2 OF 6
5 PLC ±.002		REV: D6	
ANGLES ±.0020			

PART NUMBER	ROWS	POWER						SIGNAL					
		P6	P5	P4	P3	P2	P1	6	5	4	3	2	1
6450161-2	D C B A	RA	RA	RA	RA	RA	RA	H	H	H	H	H	H
								G	G	G	G	G	G
								F	F	F	F	F	F
								E	E	E	E	E	E
24S + 6P													

PART NUMBER	ROWS	POWER						SIGNAL					
		P6	P5	P4	P3	P2	P1	6	5	4	3	2	1
1-6450161-7	D C B A		RA	RA	RA	RA		H	H	H	H	H	H
								G	G	G	G	G	G
								F	F	F	F	F	F
								E	E	E	E	E	E
24S + 6P													

NO CONTACTS LOADED



PCB LAYOUT FOR PART NUMBER: 6450161-2, 1-6450161-7

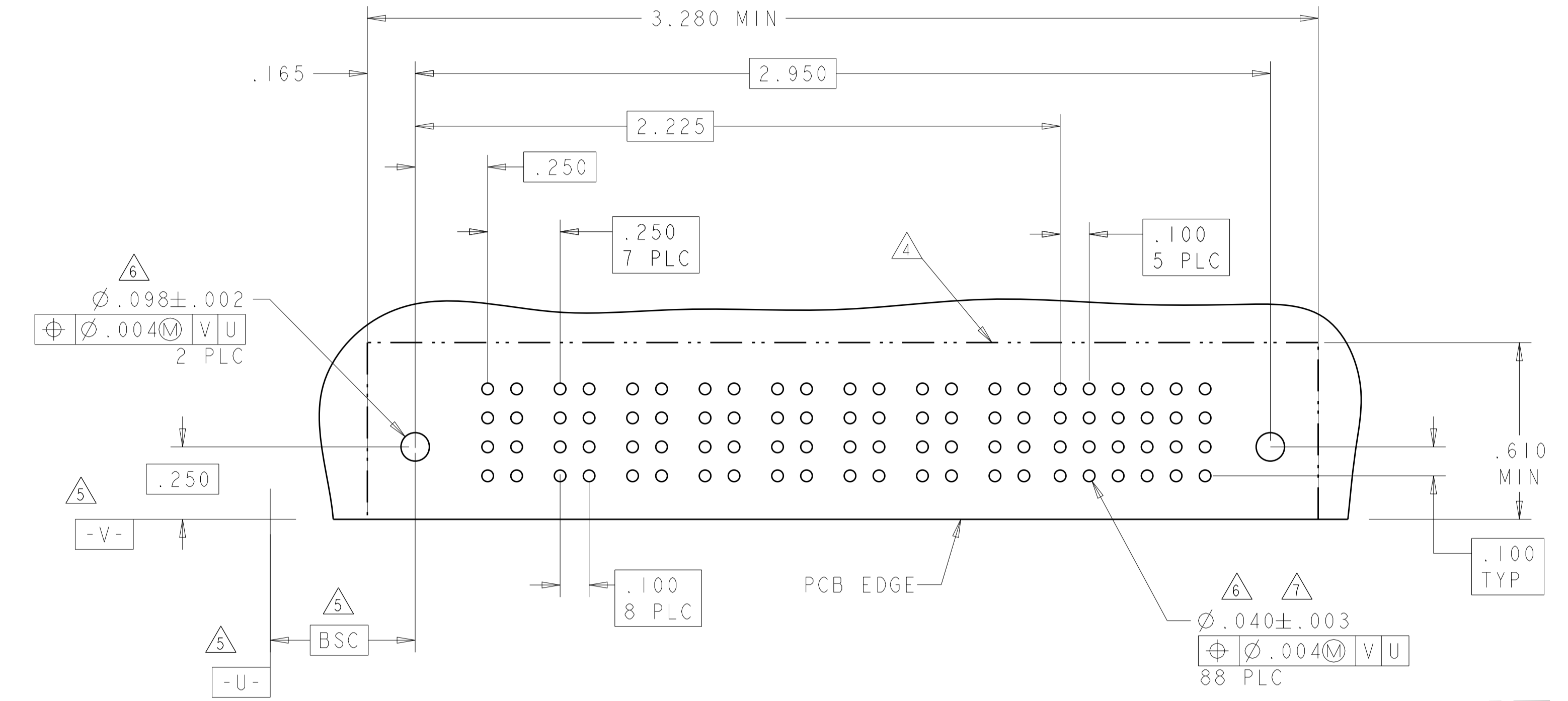
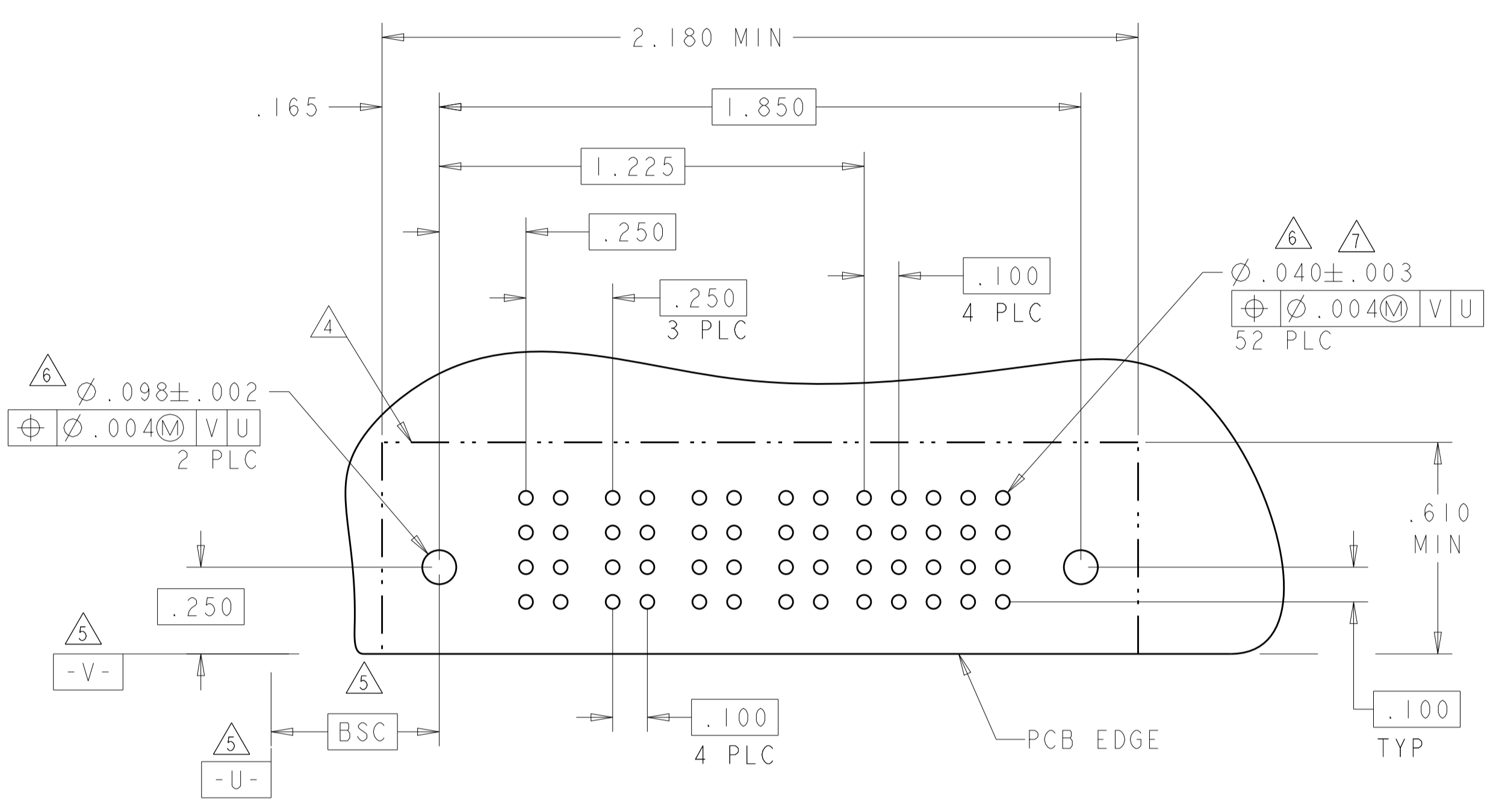
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	<b>TE</b> TE Connectivity													
DIMENSIONS:		CHK														
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD	NAME													
<table border="1"> <tr><td>0 PLC</td><td>±</td></tr> <tr><td>1 PLC</td><td>±</td></tr> <tr><td>2 PLC</td><td>±</td></tr> <tr><td>3 PLC</td><td>±</td></tr> <tr><td>4 PLC</td><td>±</td></tr> <tr><td>ANGLES</td><td>±</td></tr> </table>		0 PLC	±	1 PLC	±	2 PLC	±	3 PLC	±	4 PLC	±	ANGLES	±	PRODUCT SPEC	SIZE	
0 PLC	±															
1 PLC	±															
2 PLC	±															
3 PLC	±															
4 PLC	±															
ANGLES	±															
MATERIAL		APPLICATION SPEC	CAGE CODE DRAWING NO													
FINISH		WEIGHT	RESTRICTED TO													
		SCALE	SHEET	OF												
			REV													

PART NUMBER	ROWS	POWER				SIGNAL				
		P4	P3	P2	P1	5	4	3	2	1
6450161-5	D C B A	RA	RA	RA	RA	H	H	H	H	H
						G	G	G	G	G
						F	F	F	F	F
						E	E	E	E	E

20S + 4P

PART NUMBER	ROWS	POWER								SIGNAL					
		P8	P7	P6	P5	P4	P3	P2	P1	6	5	4	3	2	1
6450161-6	D C B A	RA	RA	RA	RA	RA	RA	RA	RA	H	H	H	H	H	H
										G	G	G	G	G	G
										F	F	F	F	F	F
										E	E	E	E	E	E

24S + 8P

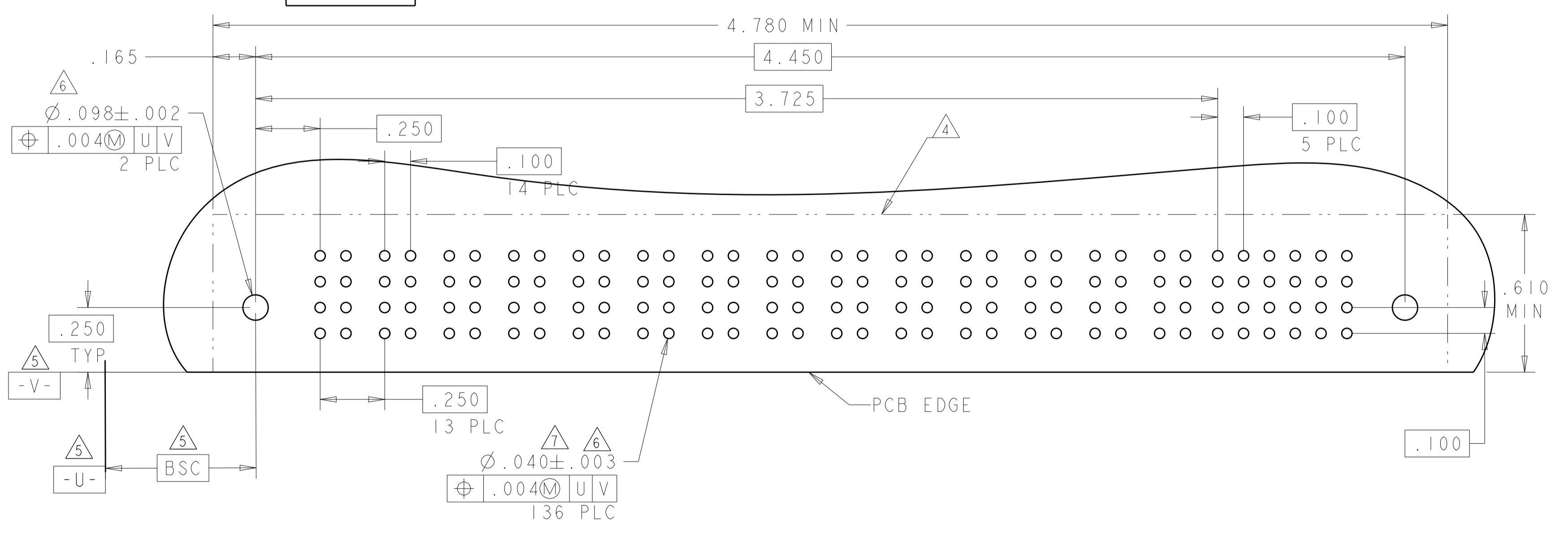
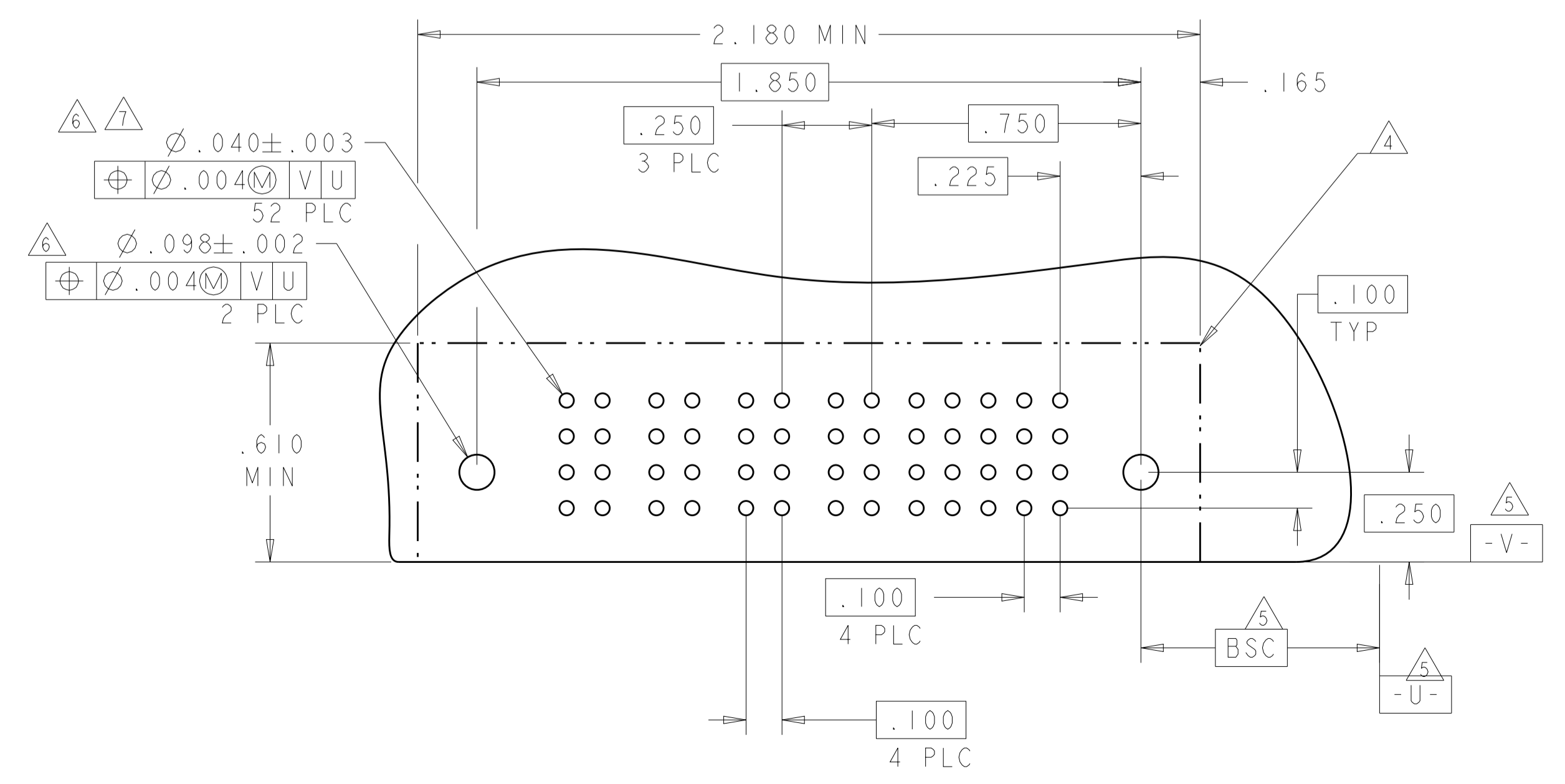


PART NUMBER	ROWS	POWER				SIGNAL				
		P4	P3	P2	P1	5	4	3	2	1
1-6450161-0	D C B A	RM	RM	RM	RM	H	H	H	H	H
						G	G	G	G	G
						F	F	F	F	F
						E	E	E	E	E

20S + 4P

PART NUMBER	ROWS	POWER														SIGNAL													
		P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	6	5	4	3	2	1								
6450161-4	D C B A	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	H	H	H	H	H	H
																								G	G	G	G	G	G
																								F	F	F	F	F	F
																								E	E	E	E	E	E

24S + 14P

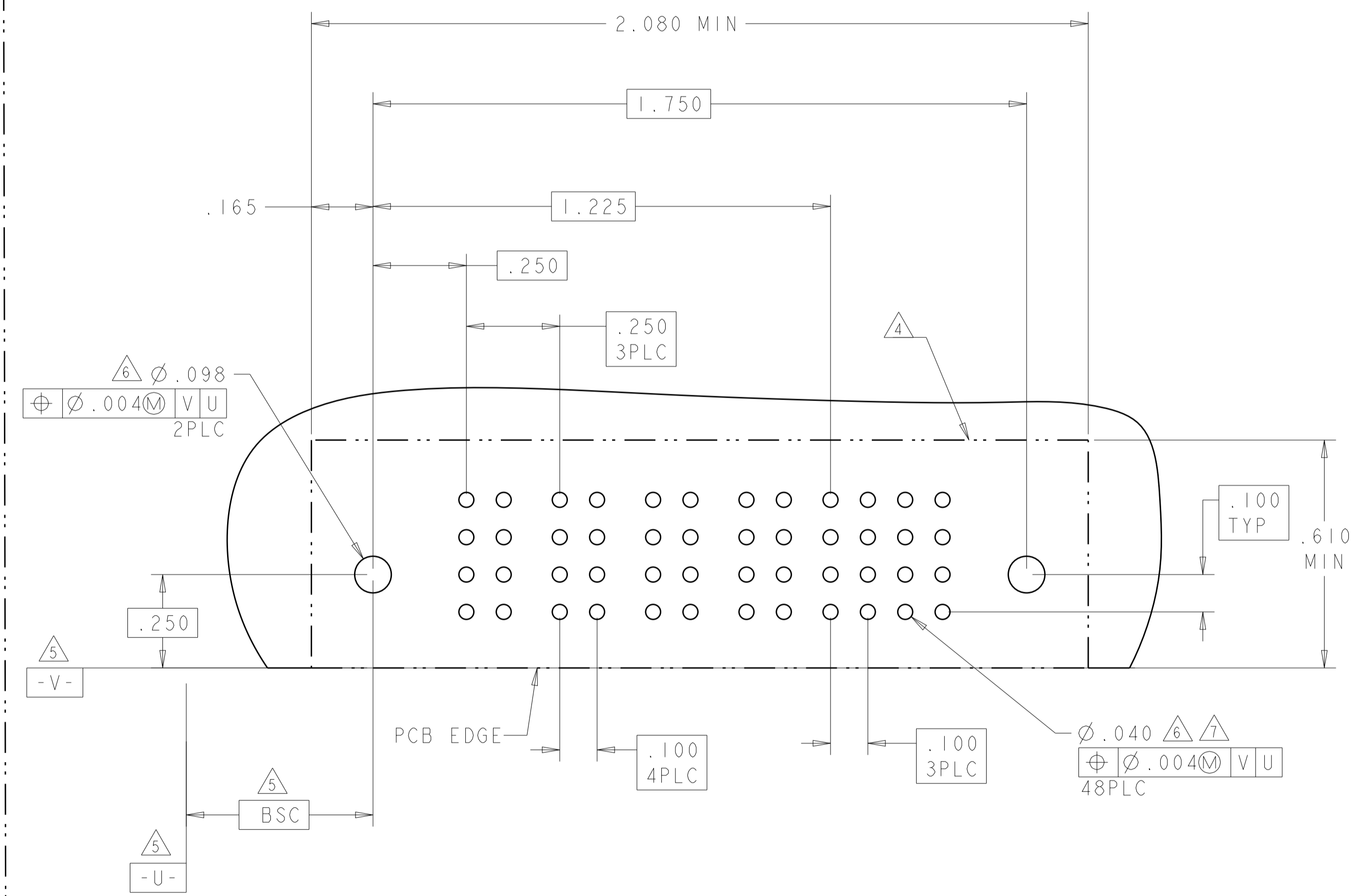
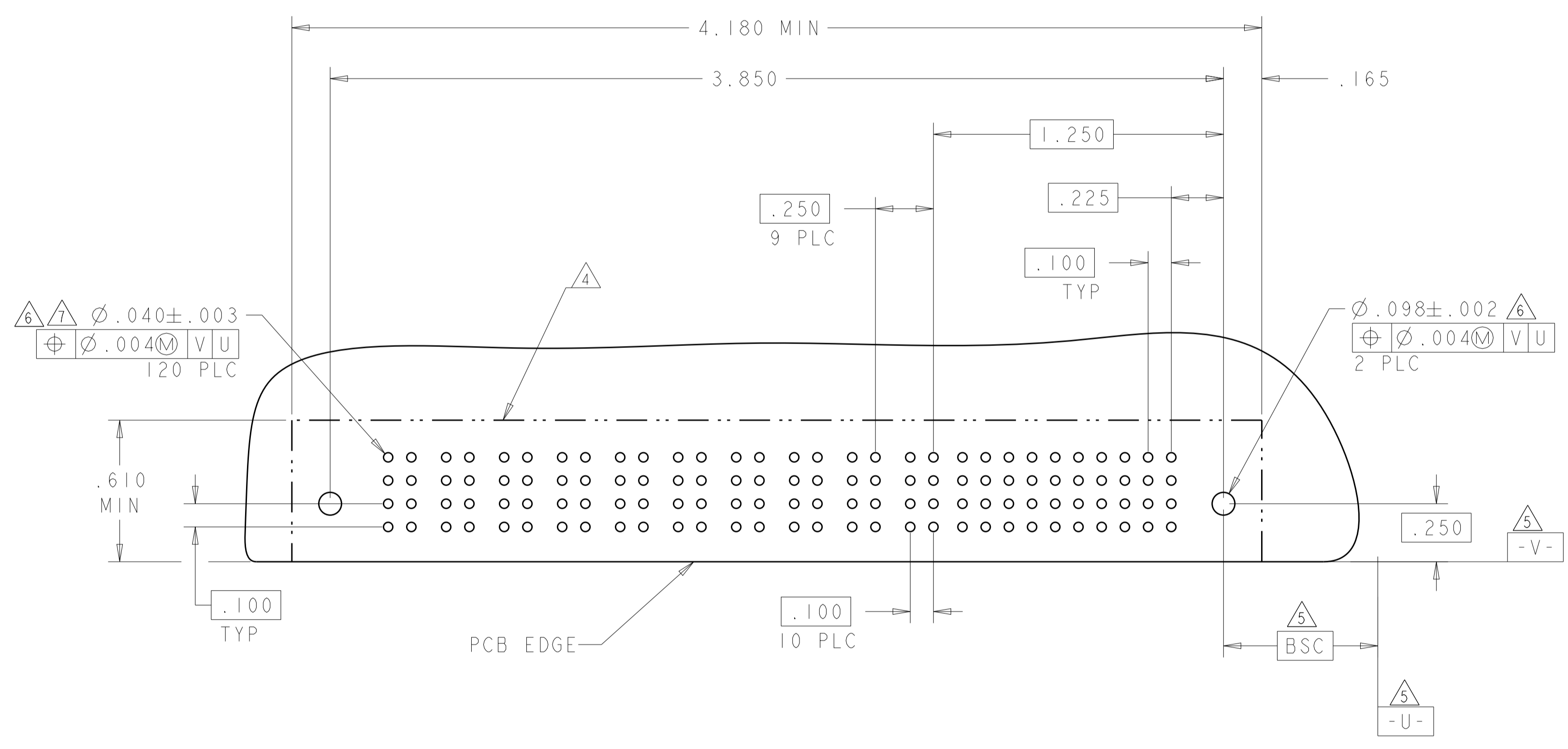


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DIMENSIONS: INCHES		CHK: M. PERCERKE	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: M. PERCERKE	NAME: RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES, END MODULES MULTI-BEAM XL
0 PLC ±.01		PRODUCT SPEC: 108-1973	
1 PLC ±.01		APPLICATION SPEC: 114-13038	SIZE: A1
2 PLC ±.01		WEIGHT: 114-13038	
3 PLC ±.005		CAGE CODE: 6450161	SHEET 4 OF 6
4 PLC ±.002		SCALE: 4:1	
ANGLES ±.002		CUSTOMER DRAWING	REV: D6

LOC	DIST	REVISIONS			
ES	00	REV	DATE	BY	APPV
		-	-	-	-
		SEE SHEET 1			

PART NUMBER	ROWS	POWER										SIGNAL									
		P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	I10	I9	I8	I7	I6	I5	I4	I3	I2	I1
1-6450161-1	D C B A	RM	RM	RM	RM	RM	RM	RM	RM	RM	RM	H	H	H	H	H	H	H	H	H	H
		RM	RM	RM	RM	RM	RM	RM	RM	RM	RM	G	G	G	G	G	G	G	G	G	G
		RM	RM	RM	RM	RM	RM	RM	RM	RM	RM	F	F	F	F	F	F	F	F	F	F
		RM	RM	RM	RM	RM	RM	RM	RM	RM	RM	E	E	E	E	E	E	E	E	E	E

PART NUMBER	ROWS	POWER				SIGNAL			
		P4	P3	P2	P1	4	3	2	1
1-6450161-3	D C B A	RA	RA	RA	RA	H	H	H	H
		RA	RA	RA	RA	G	G	G	G
		RA	RA	RA	RA	F	F	F	F
		RA	RA	RA	RA	E	E	E	E



THIS DRAWING IS A CONTROLLED DOCUMENT.

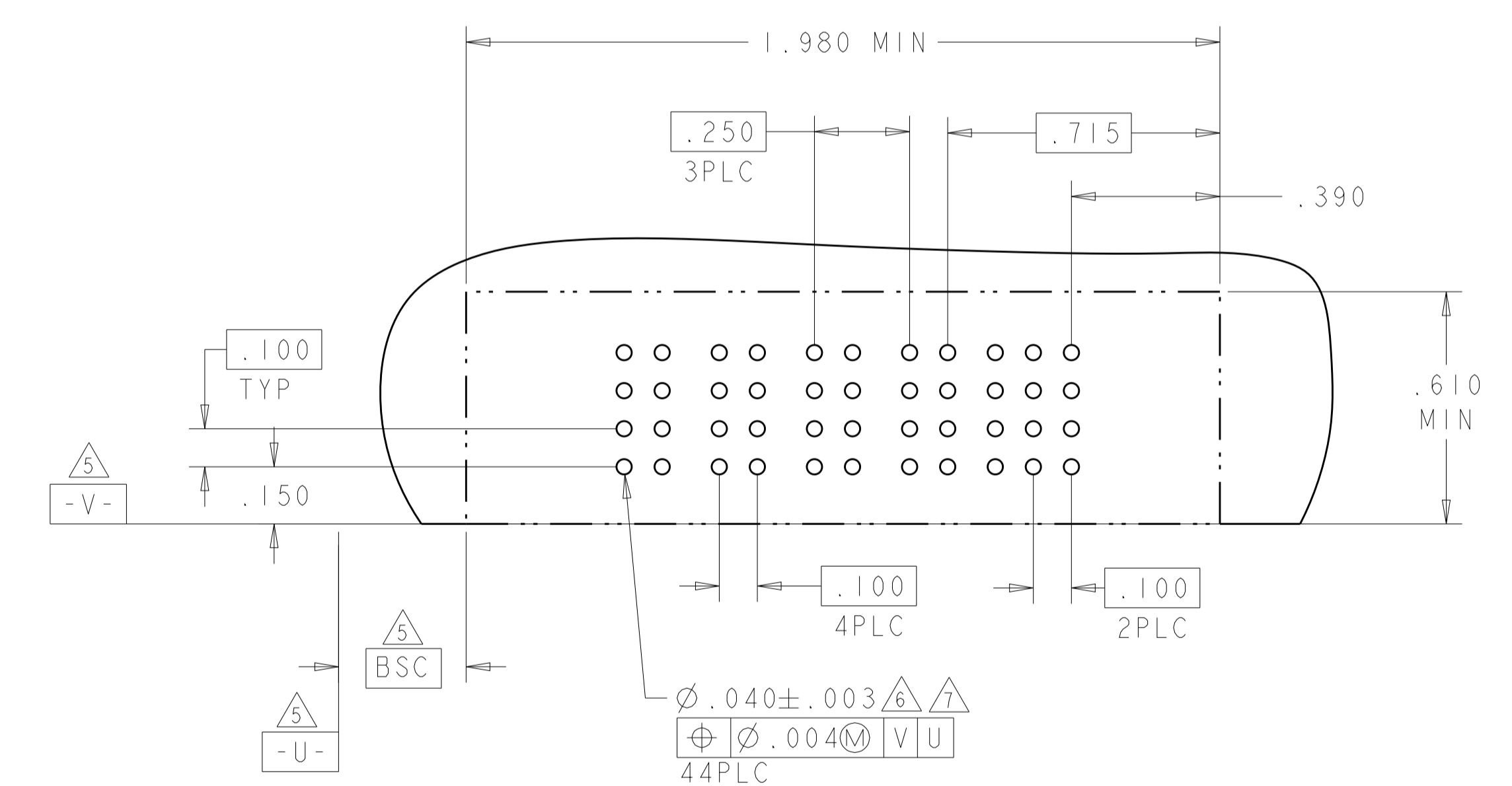
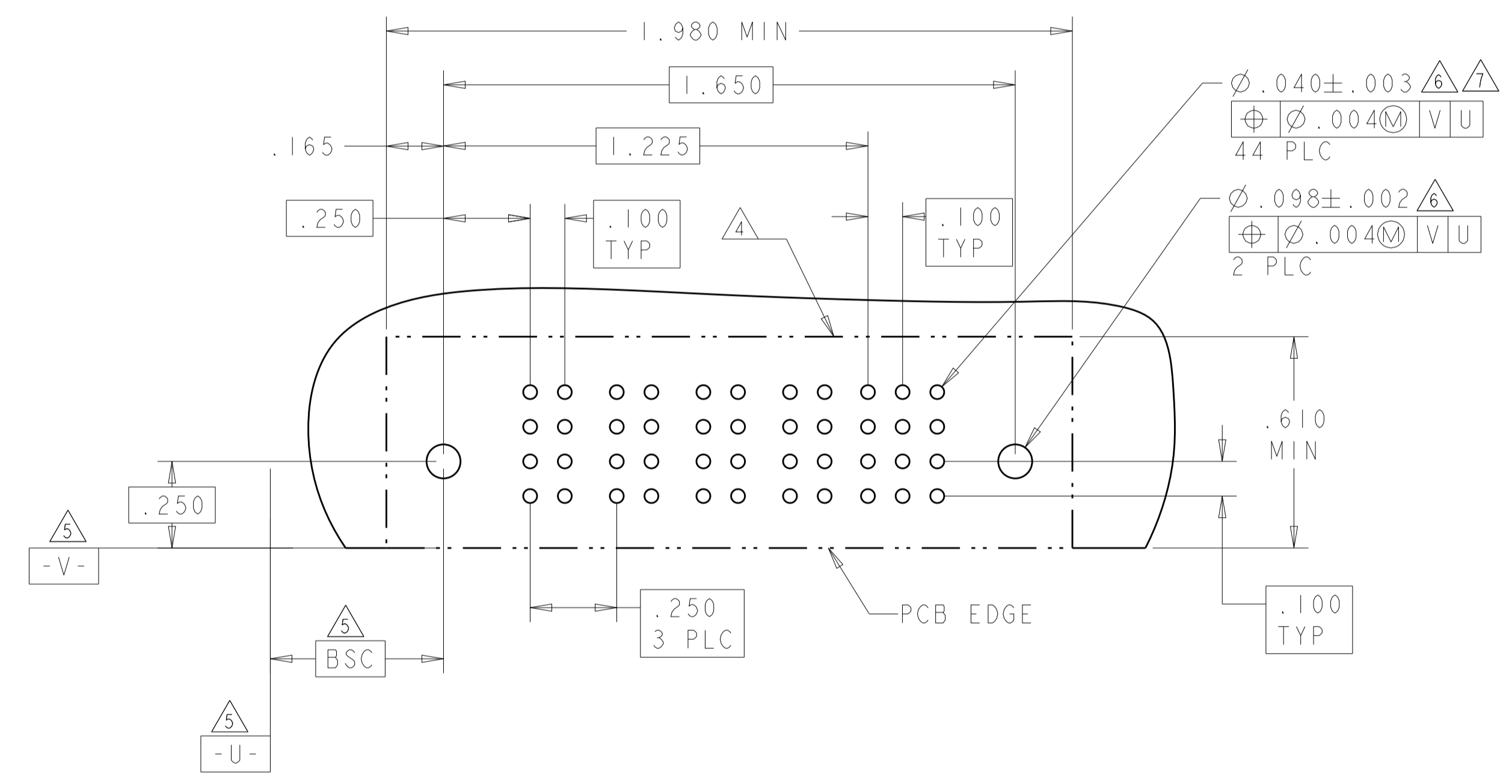
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	OWN: R. GRZYBOWSKI 21FEB05	CHK: M. PERCERKE 21FEB05	APVD: M. PERCERKE	NAME: R. GRZYBOWSKI
INCHES	0 PLC ± 1 PLC ±.01 2 PLC ±.01 3 PLC ±.005 4 PLC ±.002	PRODUCT SPEC: 108-1973	APPLICATION SPEC: 114-13038	SIZE: A1	CAGE CODE: 6450161
MATERIAL:	FINISH:	WEIGHT:	CUSTOMER DRAWING	SCALE: 4:1	SHEET 5 OF 6

RESTRICTED TO REV D6

LOC	DIST	REVISIONS			
P	LTH	DESCRIPTION	DATE	DMN	APVD
-	-	SEE SHEET 1	-	-	-

PART NUMBER	ROWS	P4	P3	POWER				SIGNAL			P1
				P2	P1	3	2	1			
1-6450161-5	D	RM	RM	RM	RM	H	H	H	E	E	E
	C					G	G	G			
	B					F	F	F			
	A					E	E	E			
12S + 4P											

PART NUMBER	ROWS	P4	P3	POWER				SIGNAL			P1
				P2	P1	3	2	1			
1-6450161-6	D	RM	RM	RM	RM	H	H	H	E	E	E
	C					G	G	G			
	B					F	F	F			
	A					E	E	E			
12S + 4P											



THIS DRAWING IS A CONTROLLED DOCUMENT.		DMN: R.GRZYBOWSKI / 21FEB05	 TE Connectivity
DIMENSIONS: INCHES		CHK: M.PERCHEKE / 21FEB05	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD: M.PERCHEKE	NAME: RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES, END MODULES MULTI-BEAM XL
0 PLC ± .01	1 PLC ± .01	PRODUCT SPEC: 108-1973	SIZE: 114-13038
2 PLC ± .01	3 PLC ± .005	APPLICATION SPEC: 114-13038	RESTRICTED TO:
4 PLC ± .0020	ANGLES ± .0020	WEIGHT: -	A100779C=6450161
MATERIAL: -	FINISH: -	CUSTOMER DRAWING	SCALE: 4:1 SHEET 6 OF 6 REV: D6