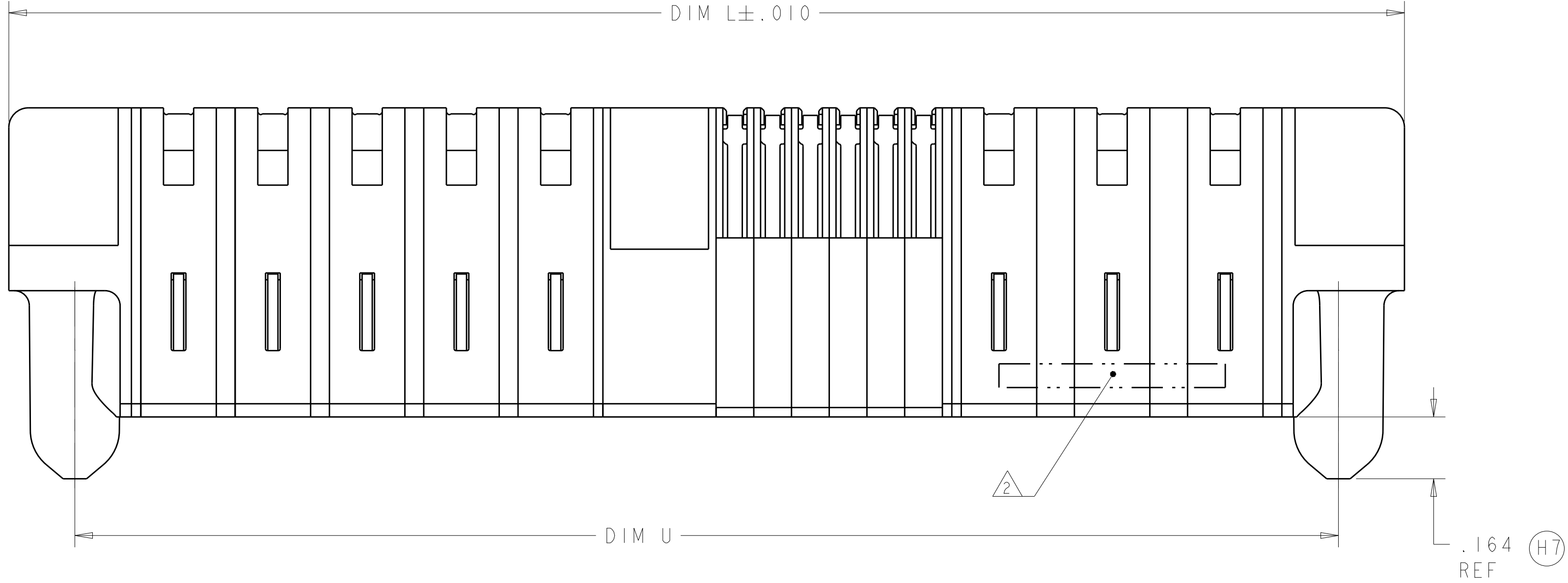
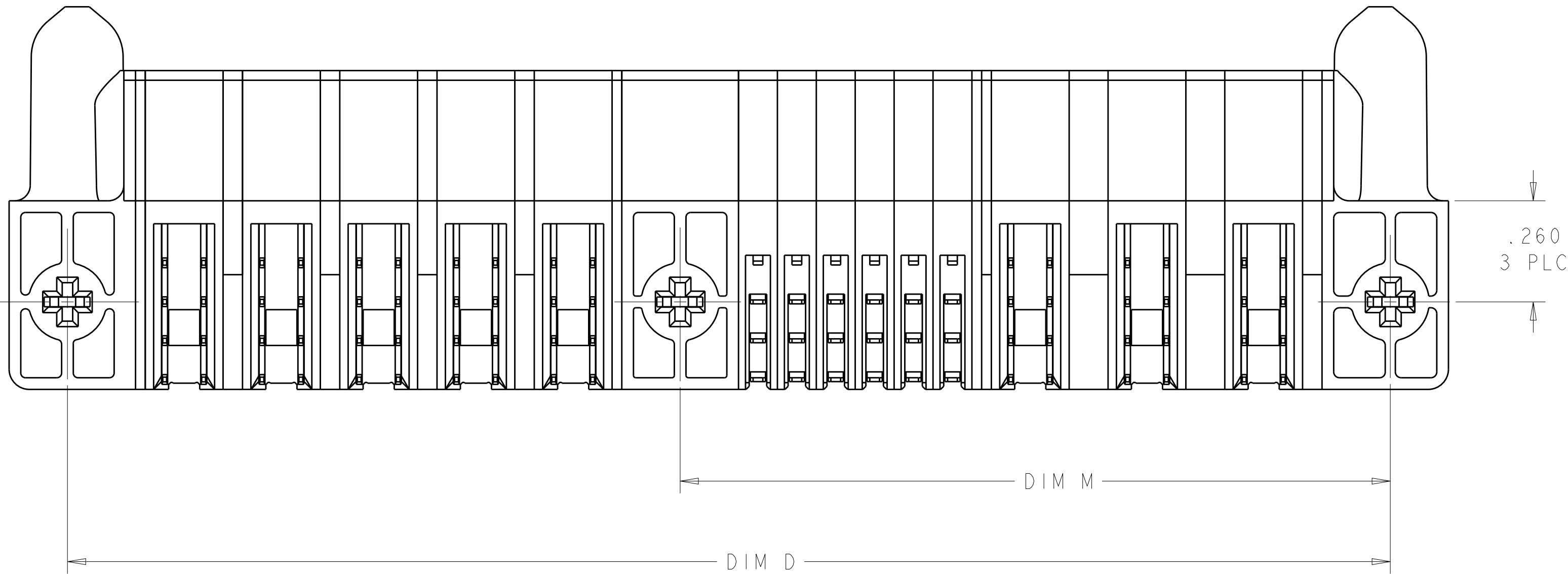
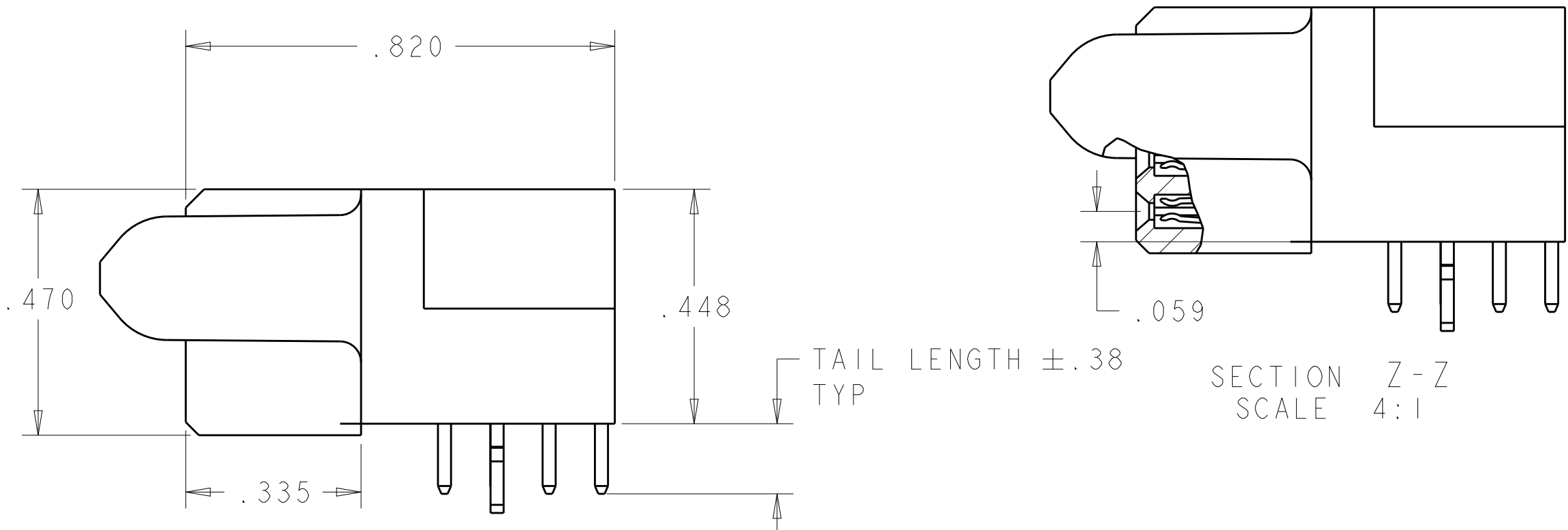
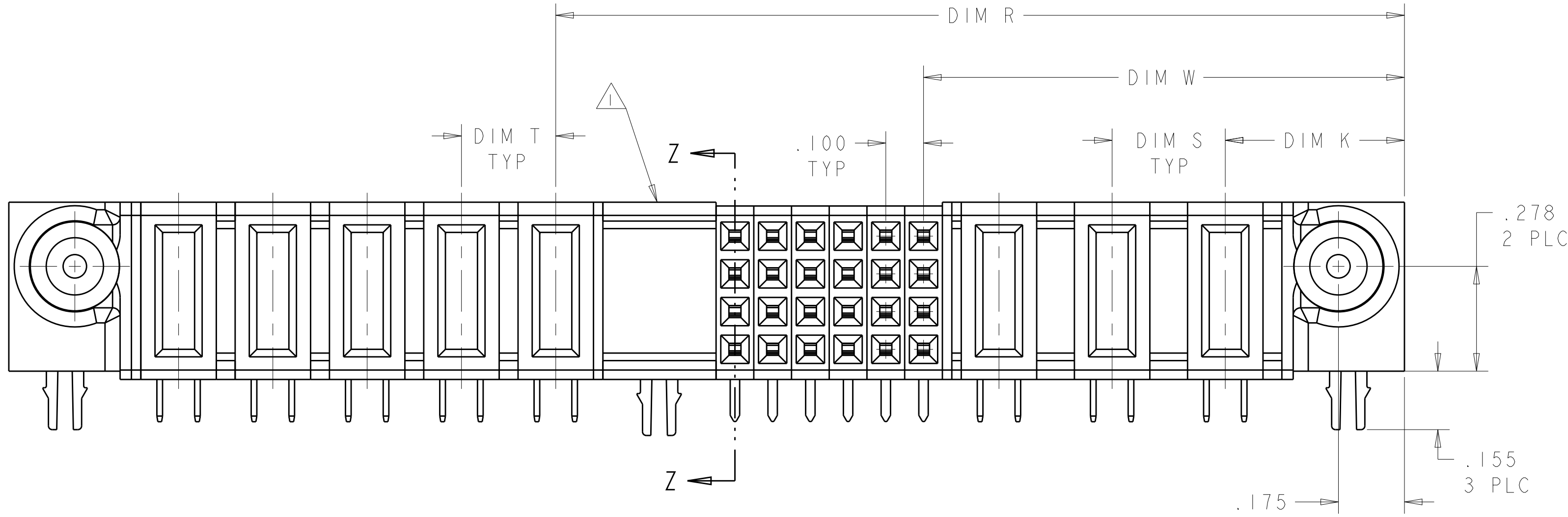


LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
ES	00		J1	REV PER ECR-12-016975	25SEP2012	CZ	SZ
			J3	ADDED NEW DASH NUMBER 4-0	01FEB2013	CZ	SZ
			J5	ADDED NEW DASH NUMBER 4-1	25FEB2014	CZ	SZ



- △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		
MATERIAL		WEIGHT	SIZE CAGE CODE DRAWING NO	
△3		△4	A100779C=6450170	
		CUSTOMER DRAWING	RESTRICTED TO	
			SCALE 4:1 SHEET 1 OF 13 REV J5	

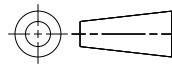
LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
ES	00	-	-	SEE SHEET 1	-	-	-

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

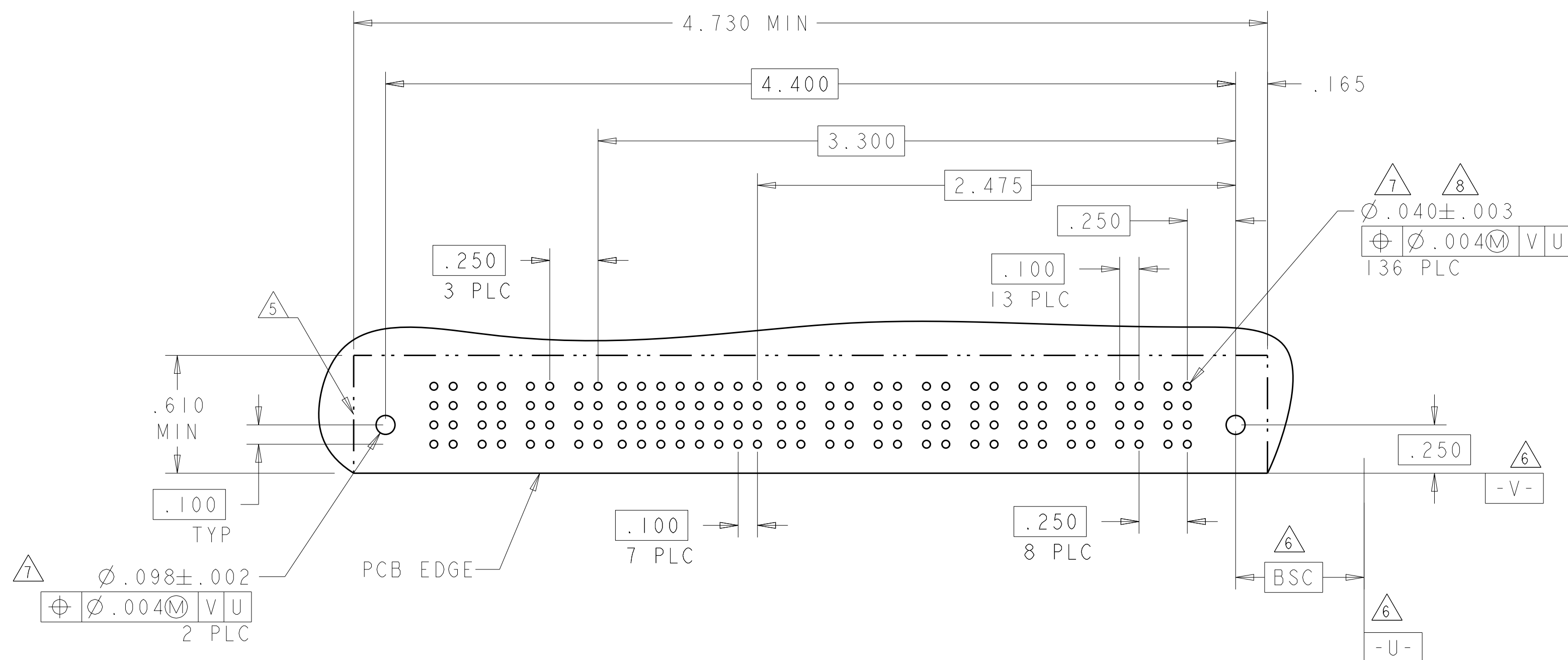
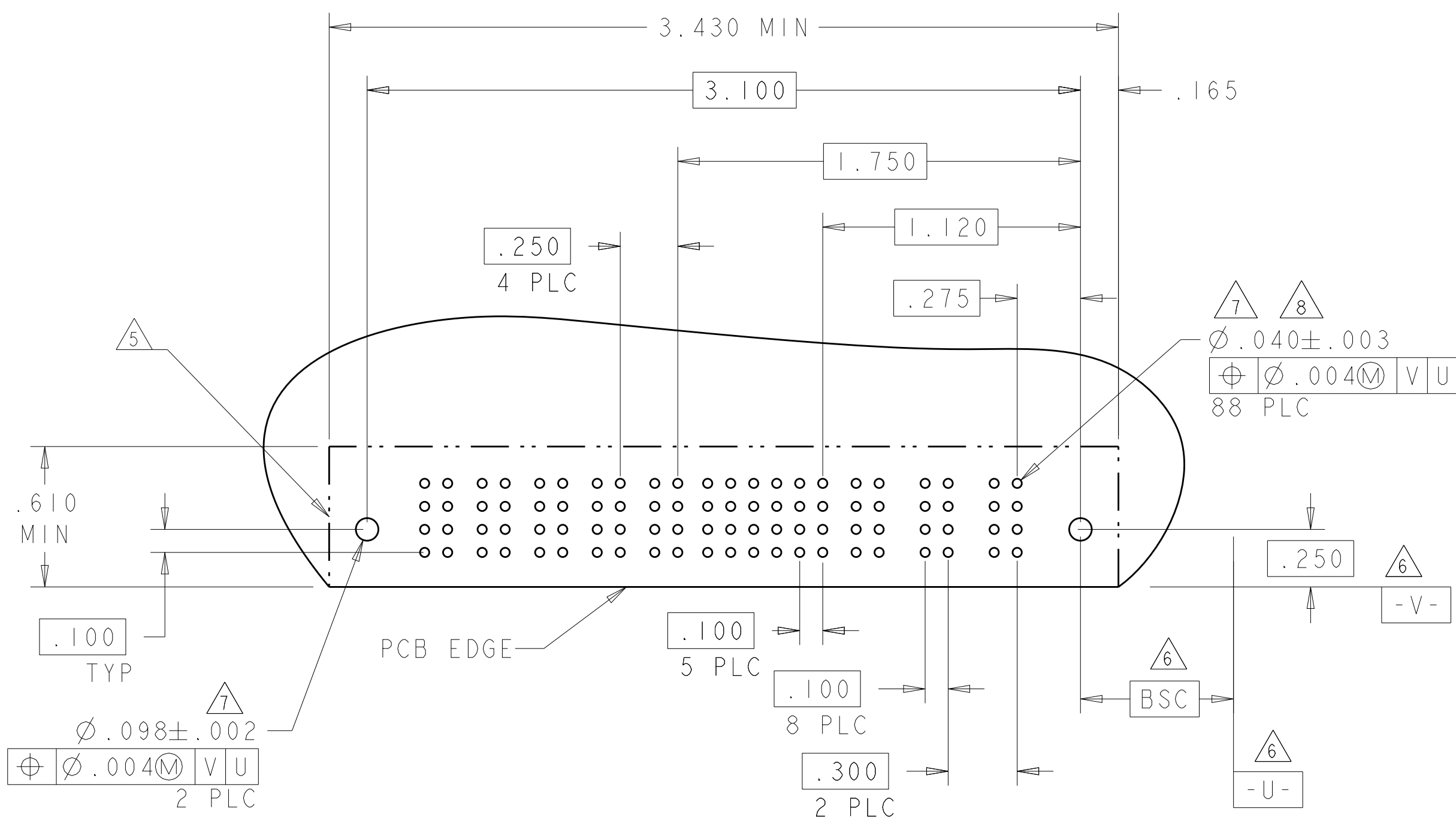
OF
13

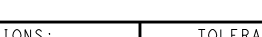
REV
J5

 ITE Connectivity

RIGHT ANGLE RECEPTACLE ASSEMBLY
WITH GUIDES
MULTI-BEAM XL

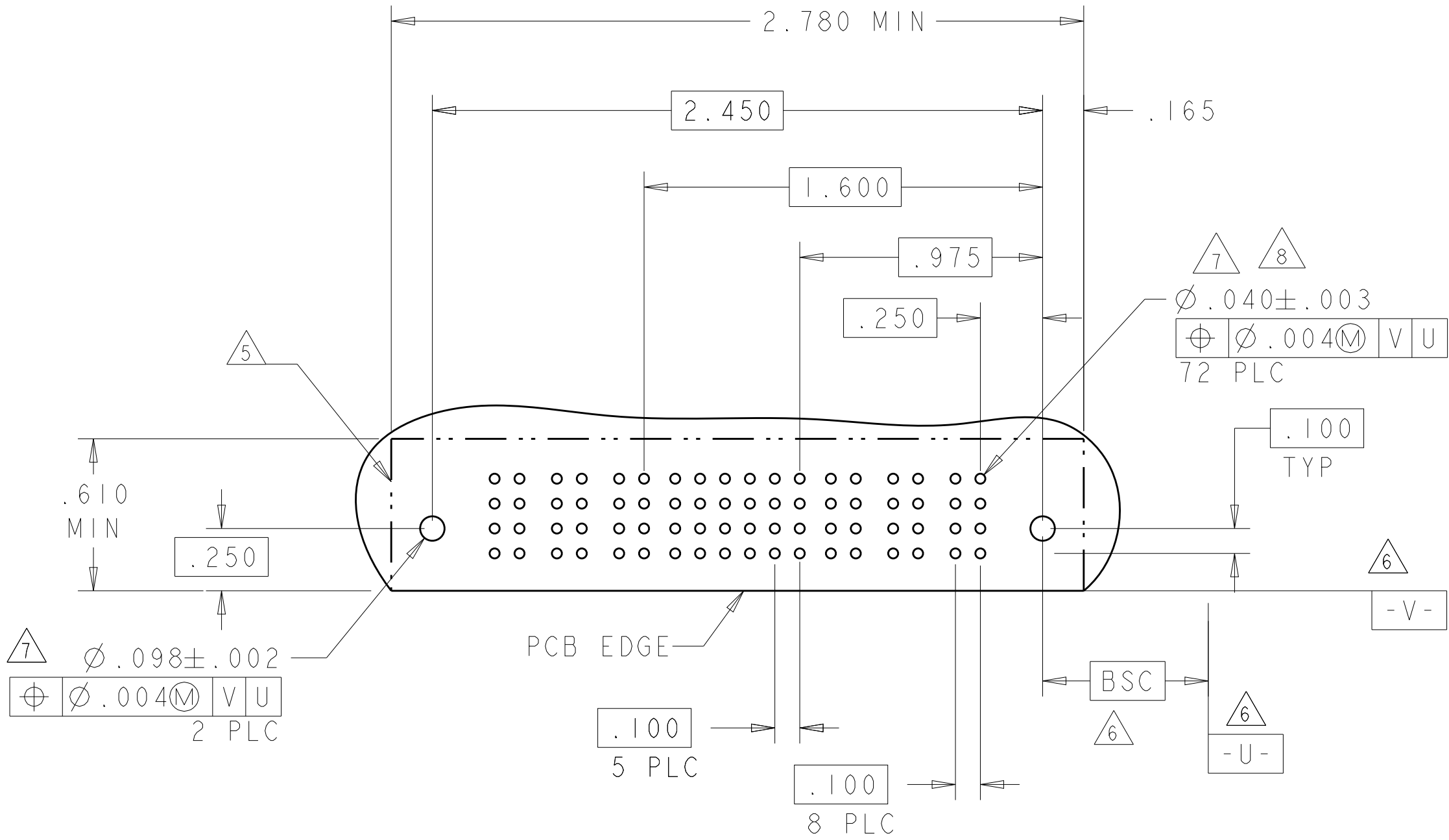
4805 (3/11)



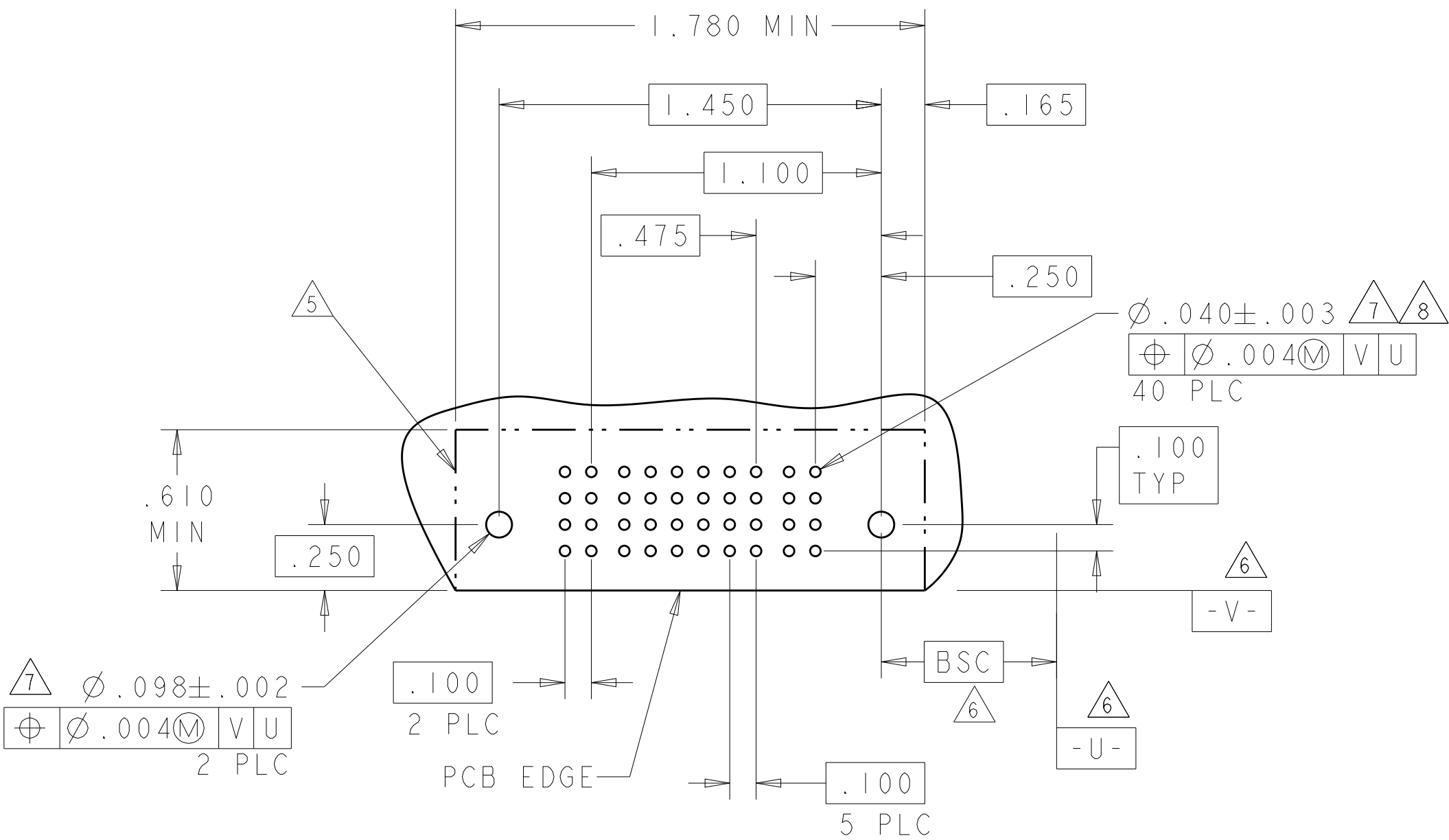
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWG: R. GRZYBOWSKI 21FEB05 CHK: M. PERCHERKE 21FEB05		 TE Connectivity	
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±. 2 PLC ±.01 3 PLC ±.005 4 PLC ±.0020 ANGLES 42°		NAME: RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL	
		APVD: M. PERCHERKE PRODUCT SPEC 108-1973 APPLICATION SPEC 114-13038		SIZE: CAGE CODE: DRAWING NO: A100779C6450170	
MATERIAL: - FINISH: -		WEIGHT: -		RESTRICTED TO: -	
CUSTOMER DRAWING				SCALE: 1:1 SHEET 3 OF 13 REV. 1	

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

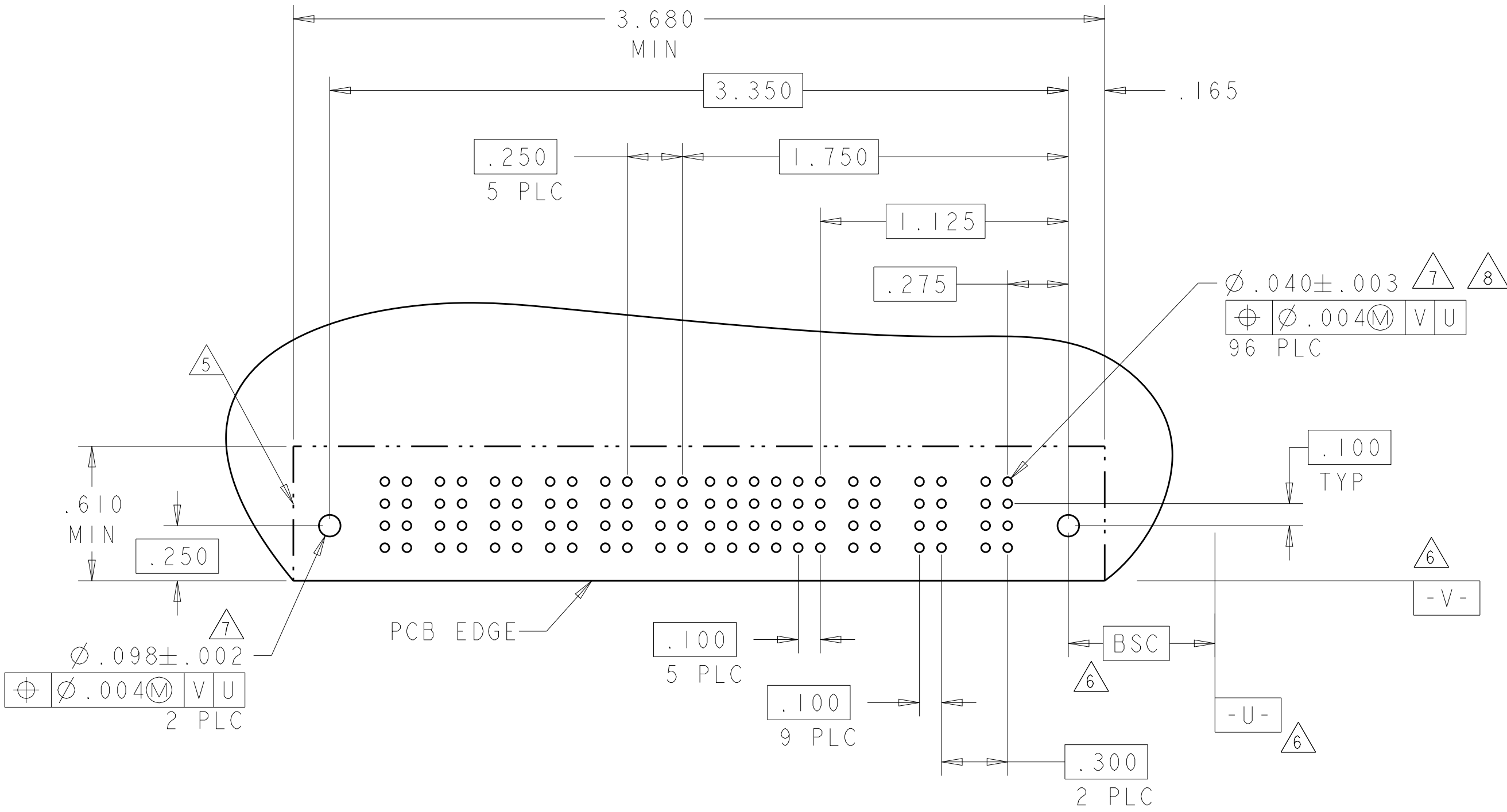
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			P6	P5	P4	6	5	4	3	2	1	P3	P2	P1	
6450170-5	D C B A		RA	RM	RM	H	H	H	H	H	H	H	RM	RM	RA
						G	G	G	G	G	G	G			
						F	F	F	F	F	F	F			
						E	E	E	E	E	E	E			
3P + 24S + 3P															



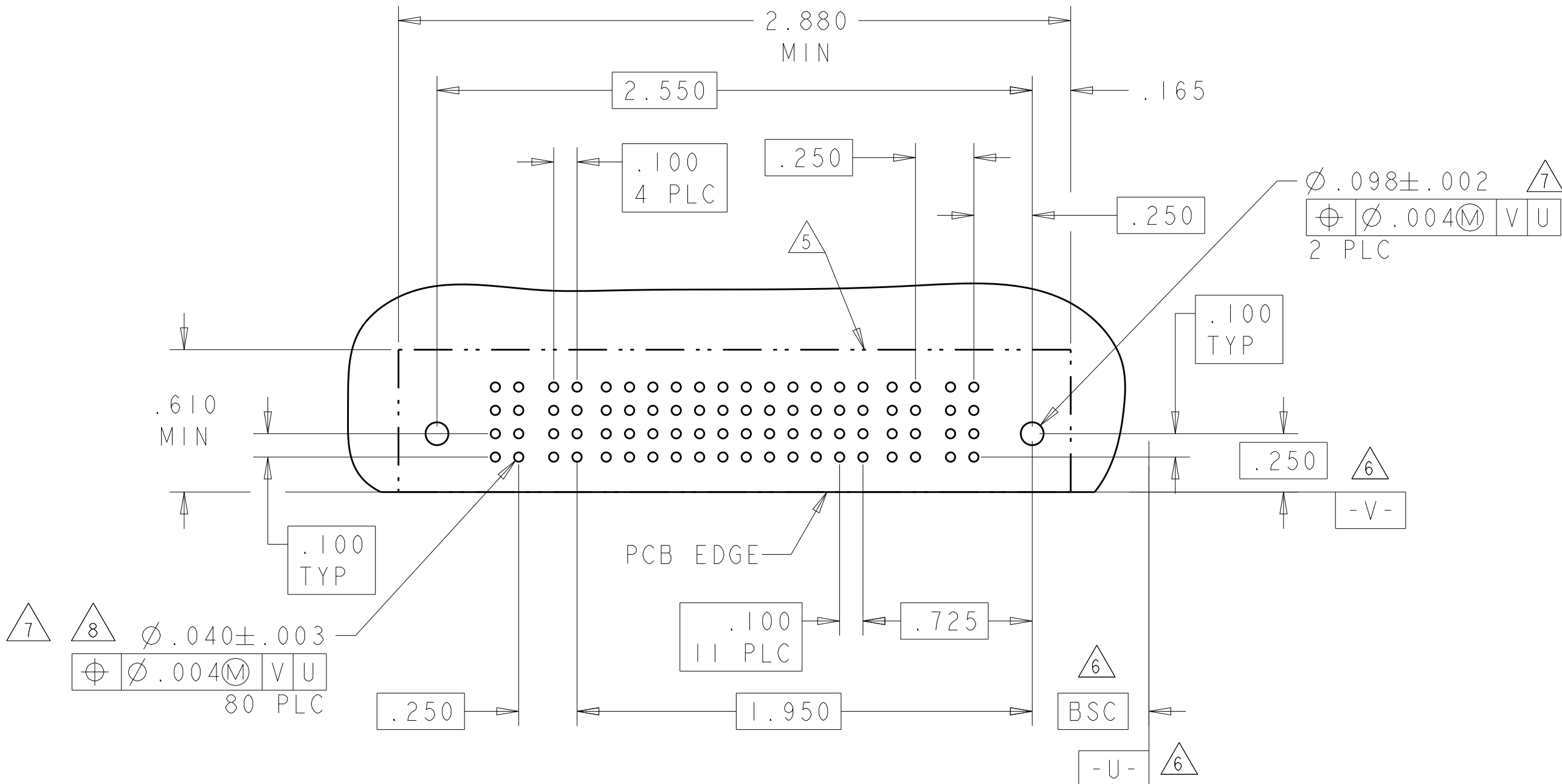
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		P2		6	5	4	3	2	1	P1		
6450170-6	D C B A	RB	K	K	K	K	K	K	K	RN	HD	
1P + 24S + 1P												



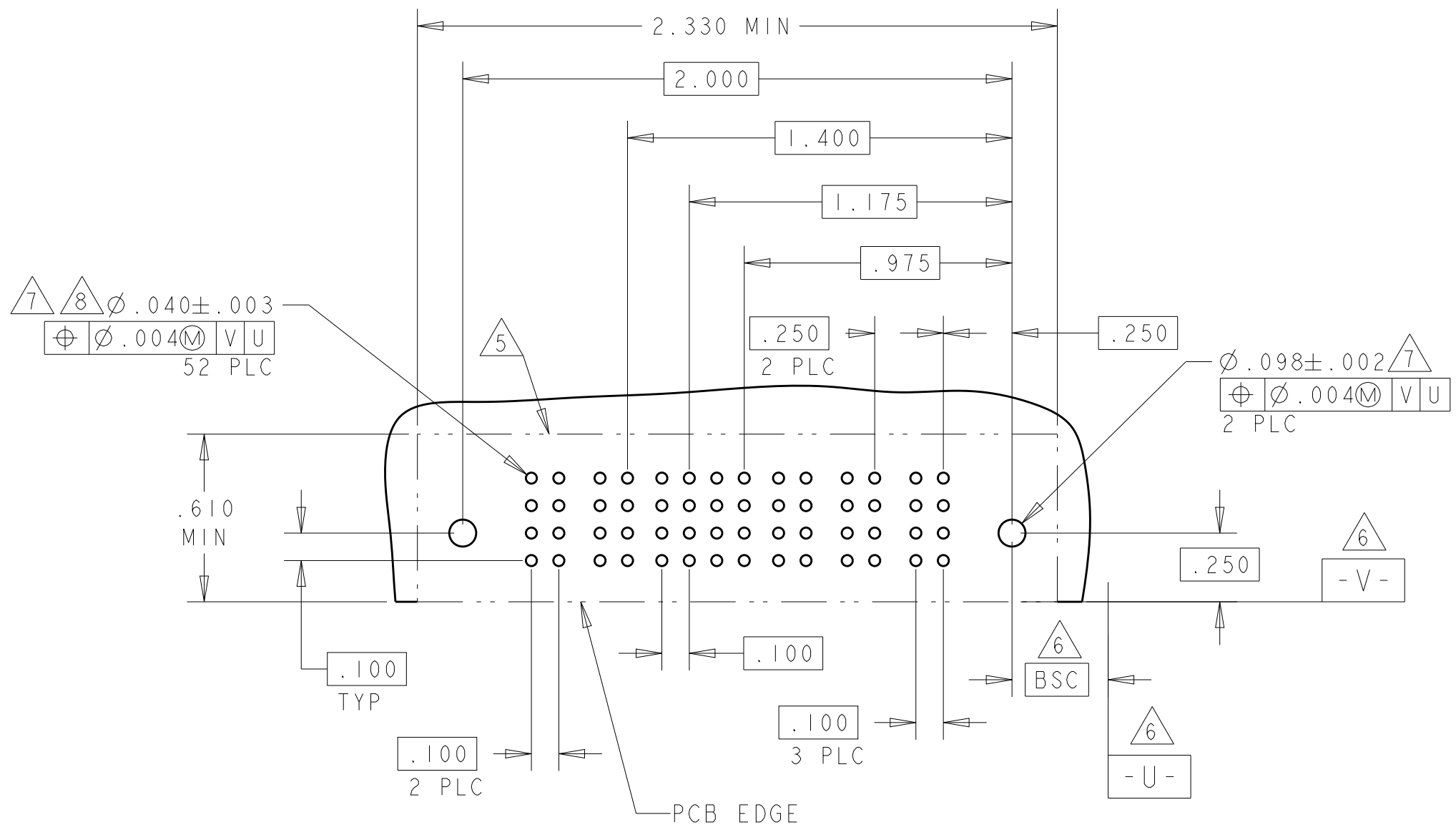
PART NUMBER	ROWS	POWER						SIGNAL					POWER				
		P9	P8	P7	P6	P5	P4	6	5	4	3	2	1	P3	P2		P1
6450170-8	D C B A		RM	RM	RM	RM	RM	H	H	H	H	H	H	RA	RM	RM	
								G	G	G	G	G	G				
								F	F	F	F	F	F				
								E	E	E	E	E	E				
3ACP + 24S + 6P																	



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	

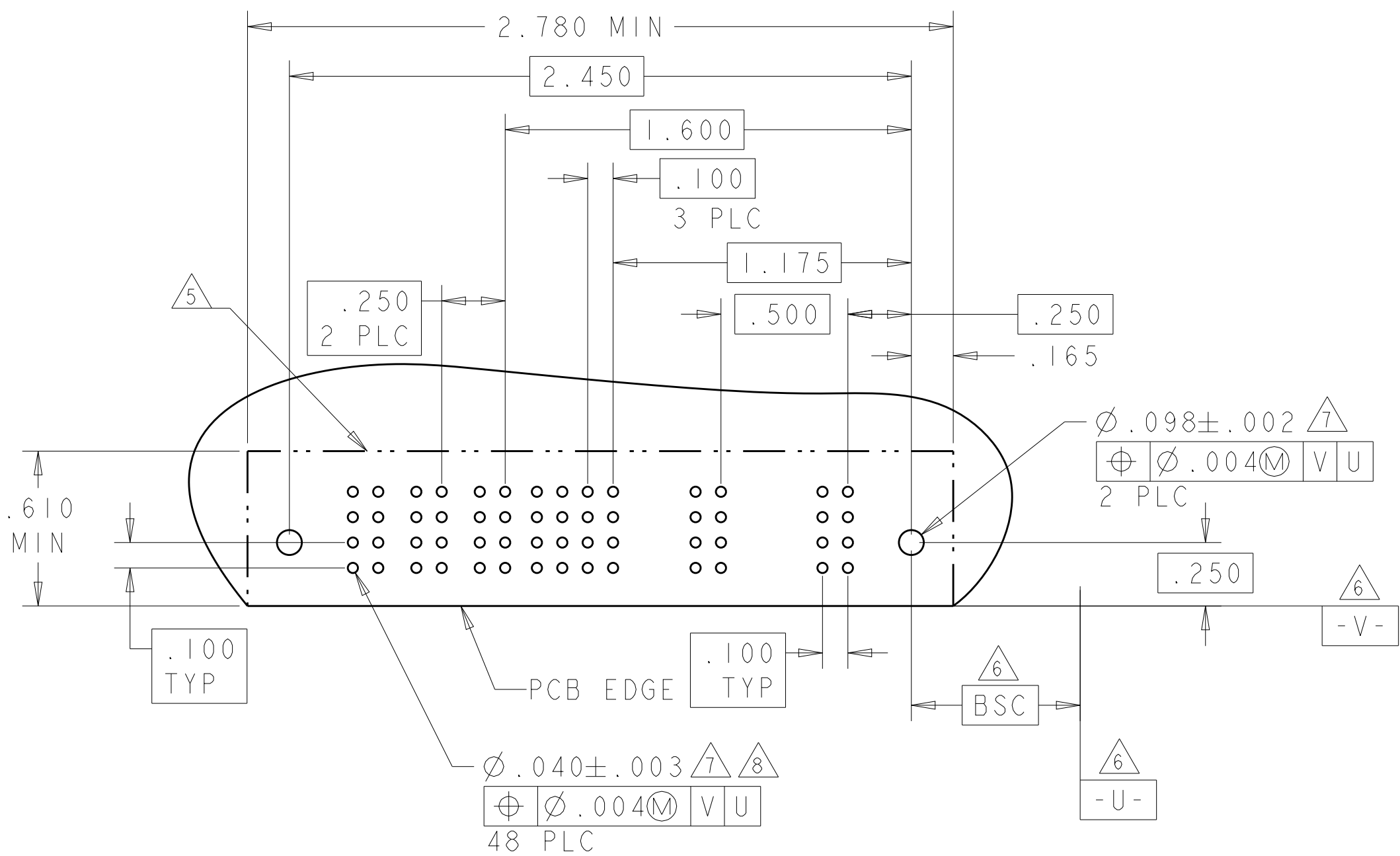


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R. GRZYBOWSKI	21FEB05	TE Connectivity	
DIMENSIONS: INCHES		CHK M. PERCHERKE	21FEB05		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD M. PERCHERKE	-	NAME RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL	
0 PLC ±.01		PRODUCT SPEC		SIZE 108-1973	
1 PLC ±.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					

[illegible]

PART NUMBER	ROWS		POWER			SIGNAL							POWER		
			P6	P5	P4	6	5	4	3	2	1	P3	P2	P1	
2-6450170-7	D C B A														
3P + 24S + 3P															

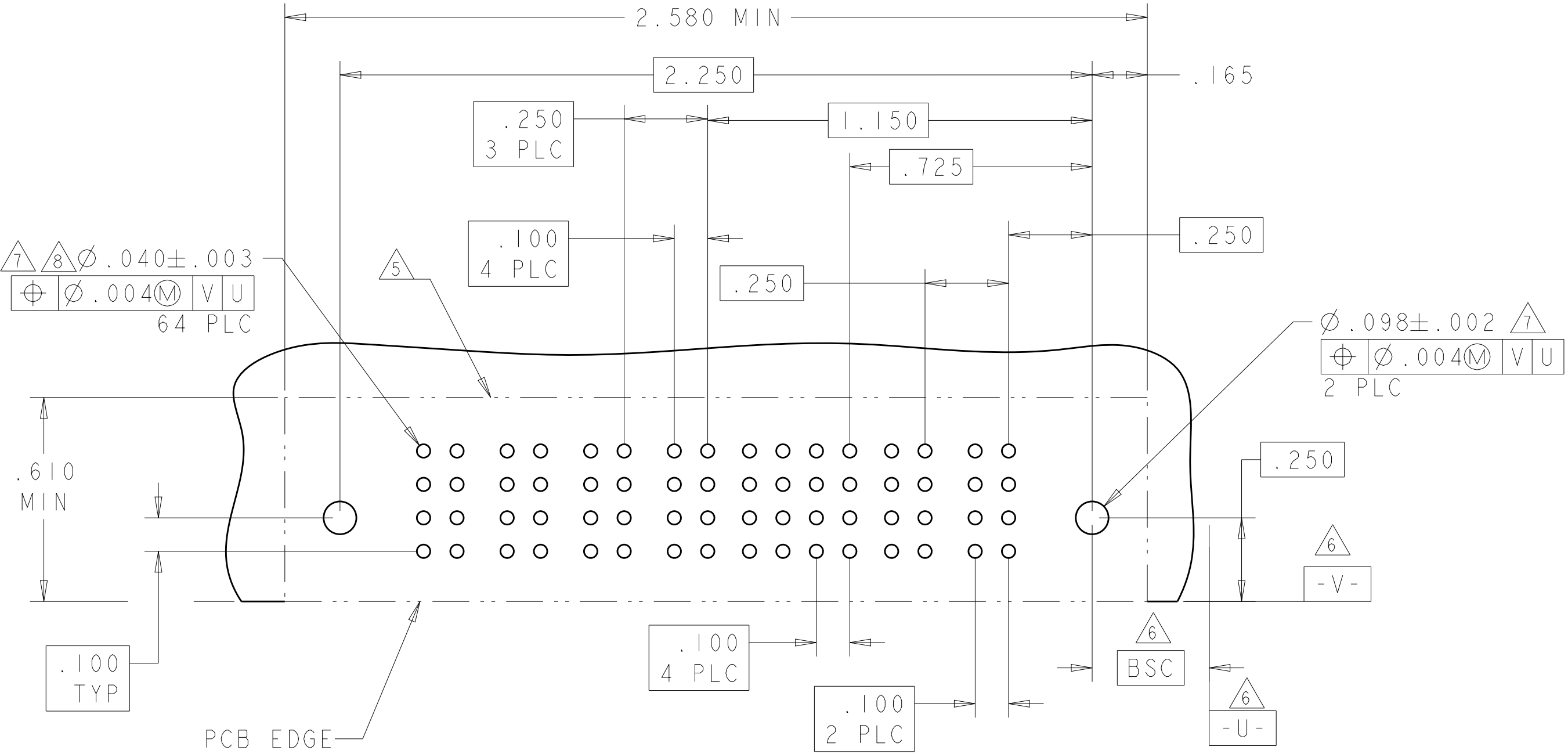
PART NUMBER	ROWS		POWER			SIGNAL							POWER																																																										
			P6	P5	P4	6	5	4	3	2	1	P3	P2	P1																																																									
2-6450170-9	D C B A		<table><tr><td>RM</td><td>RM</td><td>RA</td><td></td><td>H</td><td>H</td><td>H</td><td>H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



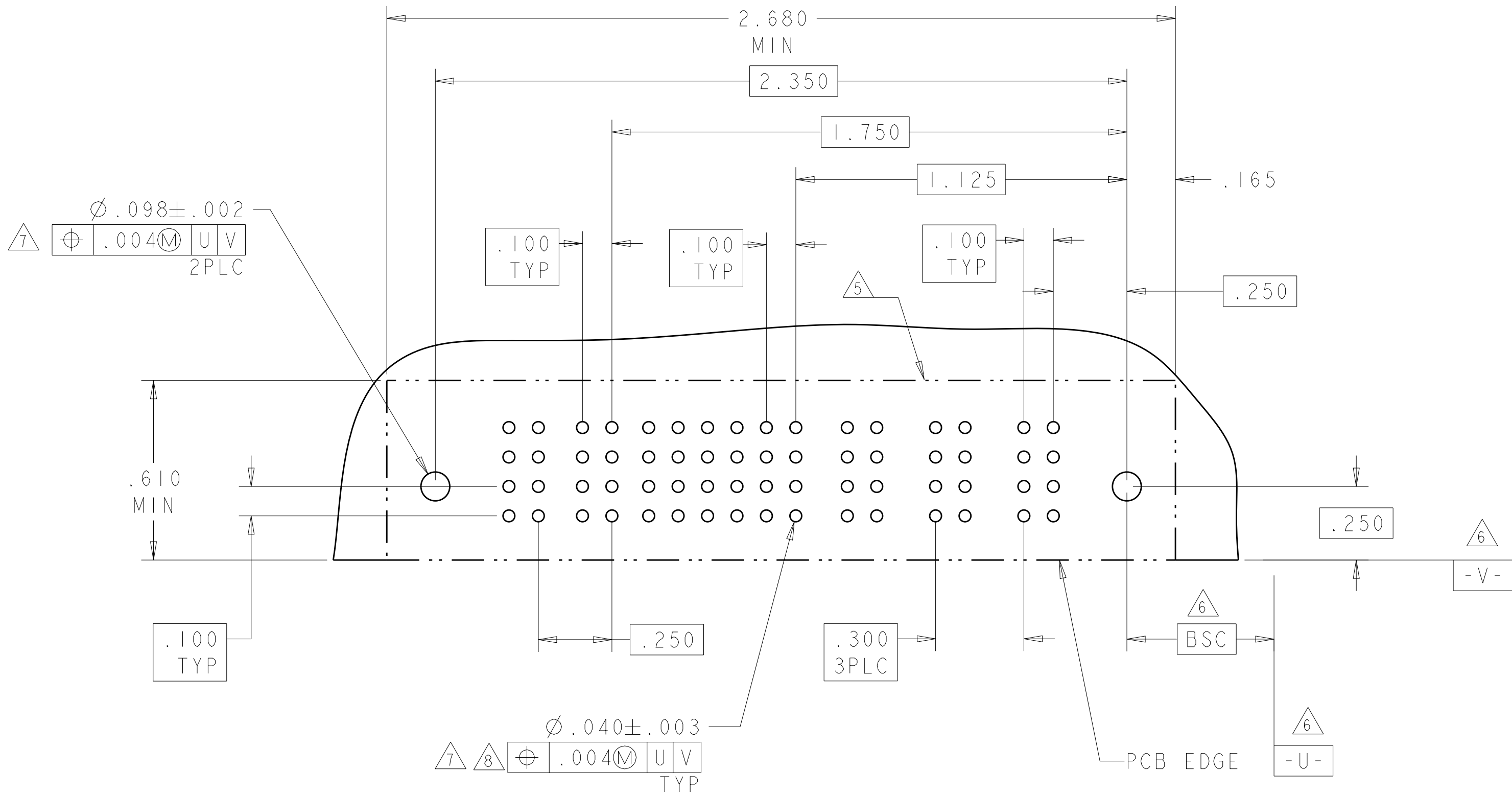
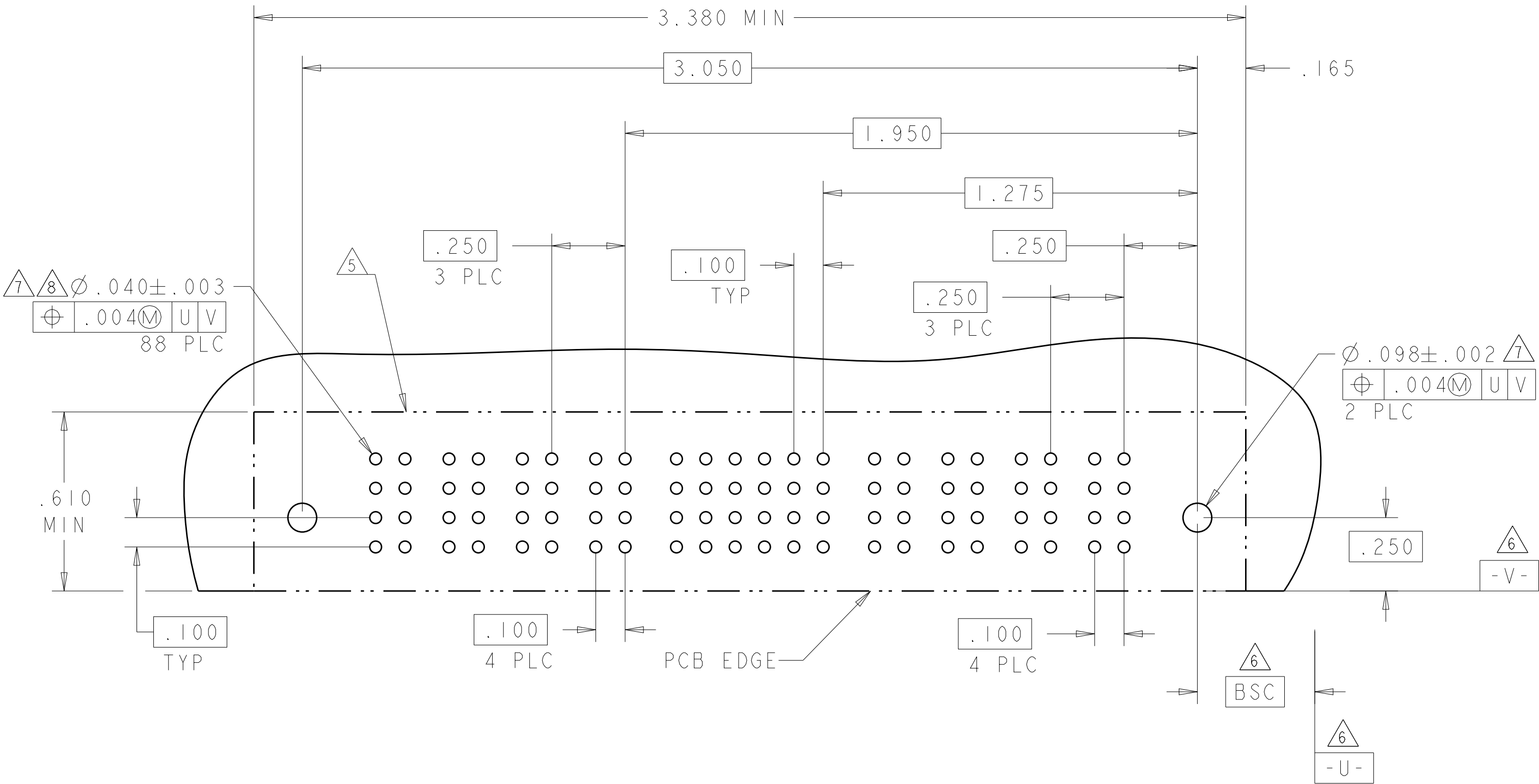
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWA R. GRZYBOWSKI		Z1FEBO5		 TE Connectivity	
		CMP M. PERCHERKE		Z1FEBO5			
DIMENSIONS: INCHES		TOLERANCES, UNLESS OTHERWISE SPECIFIED:		NAME		RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL	
		0 PLC ± 2 PLC ± 0.1 3 PLC ± 0.05 4 PLC ± 0.020 ANGLES ± 1°		PRODUCT SPEC 108-1973 APPLICATION SPEC 114-13038			
		FINISH		SIZE CASE CODE DRAWING NO		RESTRICTED TO	
MATERIAL				A1 100779C-6450170		-	
				CUSTOMER DRAWING		SCALE 4:1 SHEET 5 OF 13 REV J5	

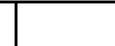
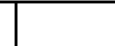
LOC		DIST		REVISONS			
ES	00	P	LTR	DESCRIPTION		DATE	OWN
				SEE SHEET 1		-	-

PART NUMBER	ROWS		POWER				SIGNAL				POWER		
			P6	P5	P4	P3	4	3	2	1	P2	P1	
1-6450170-9	D		RA	RA	RM	RM	H	H	H	H	RM	RA	
	C						G	G	G	G			
	B						F	F	F	F			
	A						E	E	E	E			
2P + 16S + 4P													



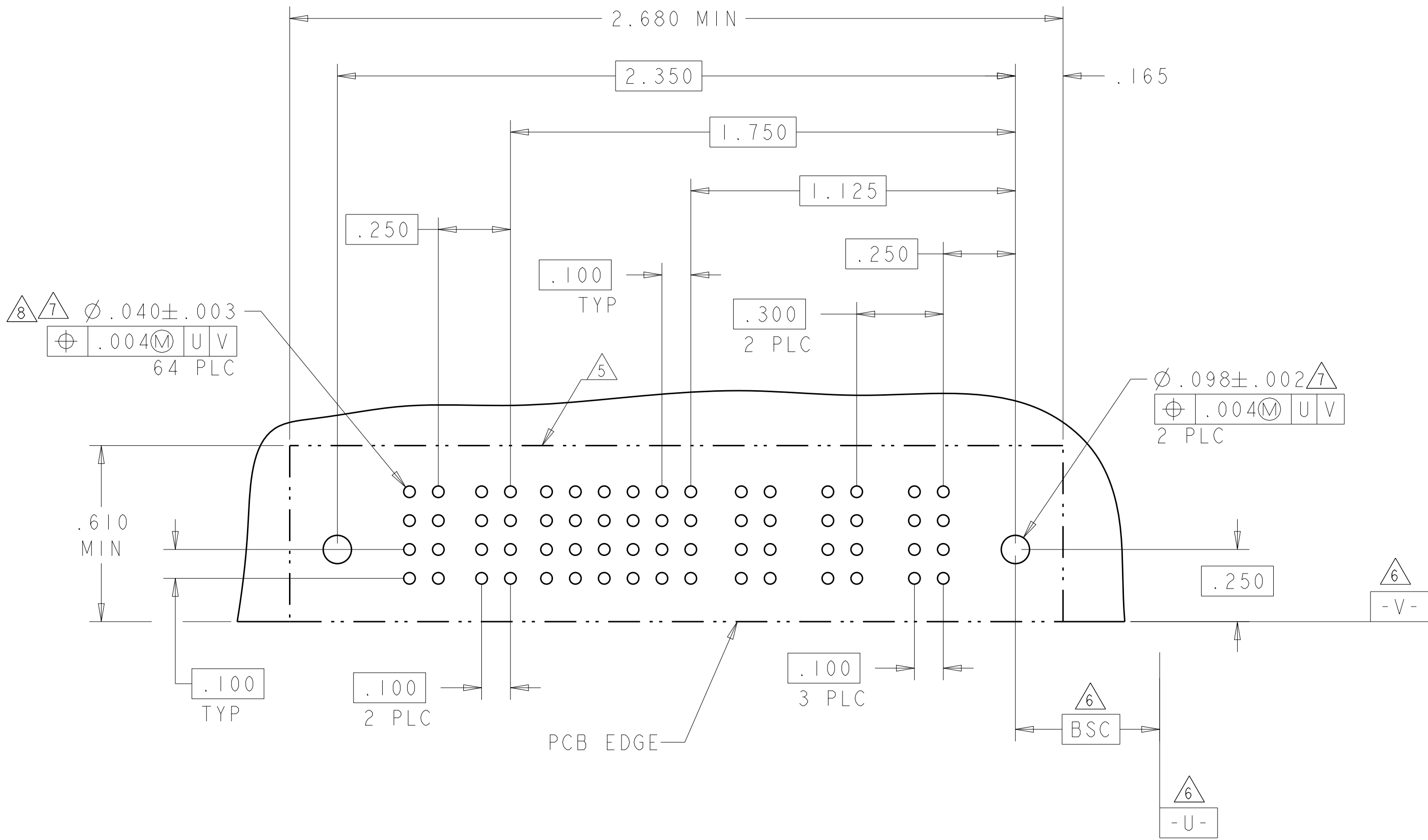
PART NUMBER	ROWS		POWER				SIGNAL						POWER				
			P8	P7	P6	P5	6	5	4	3	2	1	P4	P3	P2	P1	
1-6450170-4	D		RA	RA	RA	RA	H	H	H	H	H	H	RA	RA	RA	RA	
	C						G	G	G	G	G	G					
	B						F	F	F	F	F	F					
	A						E	E	E	E	E	E					
4P + 24S + 4P																	



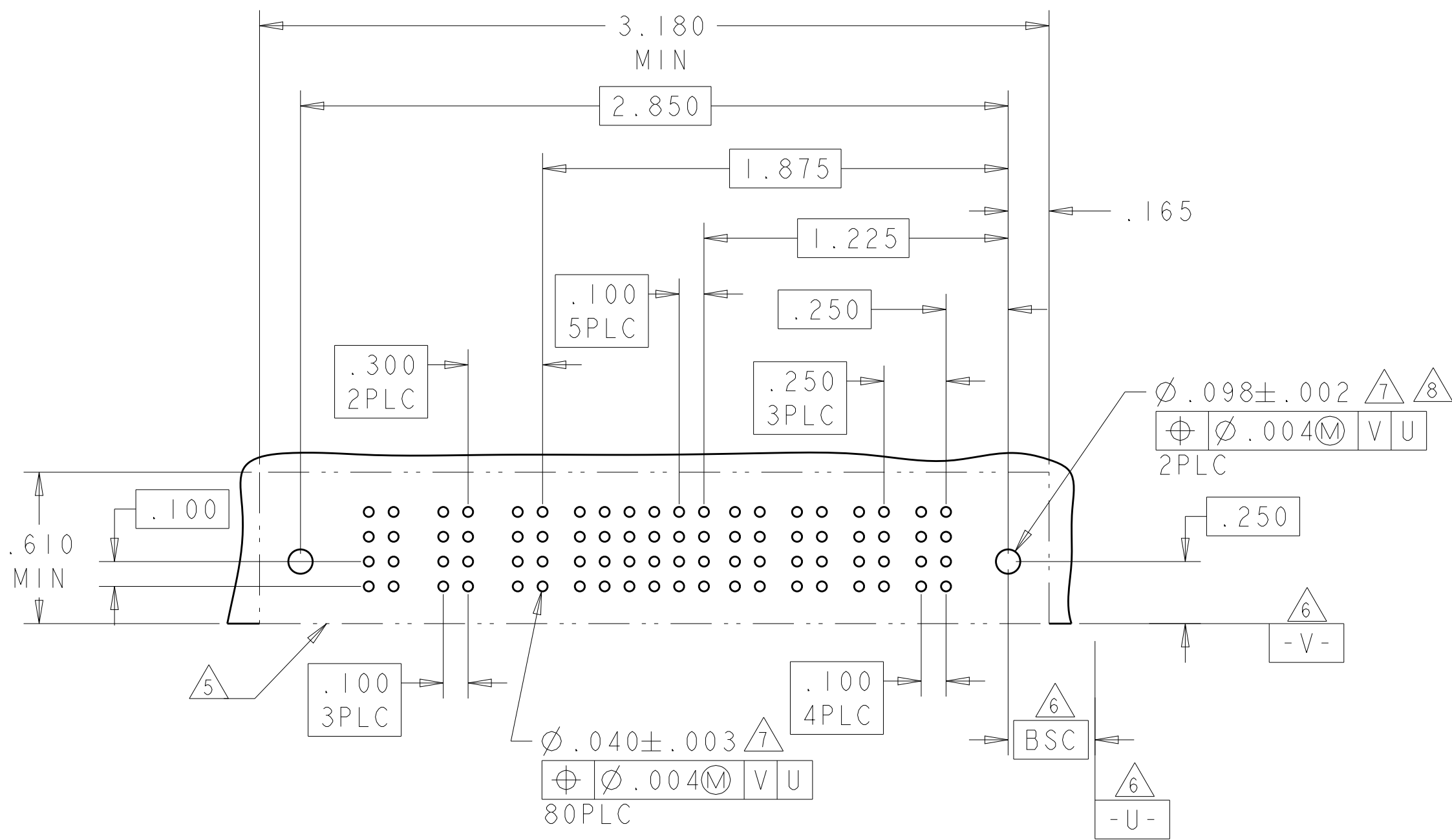
PART NUMBER	ROWS		POWER		SIGNAL						AC POWER			
			P5	P4	6	5	4	3	2	1	P3	P2	P1	
2-6450170-8	D		RA	RA	H	H	H	H	H	H	RA	RM	RM	
	G				G	G	G	G	G					
	F				F	F	F	F	F					
	E				E	E	E	E	E					
3ACP + 24S + 2P														

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN R. GRZYBOWSKI 21FEB05	TE Connectivity	
DIMENSIONS: INCHES		CHK M. PERCHERKE		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD M. PERCHERKE	NAME	
0 PLC ± .01		PRODUCT SPEC	RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL	
1 PLC ± .01		108-1973		
2 PLC ± .005		APPLICATION SPEC	SIZE	
3 PLC ± .002		114-13038	CAGE CODE	
4 PLC ± .002		WEIGHT	DRAWING NO	
ANGLES			A100779	
FINISH			C=6450170	
MATERIAL			CUSTOMER DRAWING	
			SCALE 4:1	
			SHEET 6 OF 13	
			REV J5	

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														

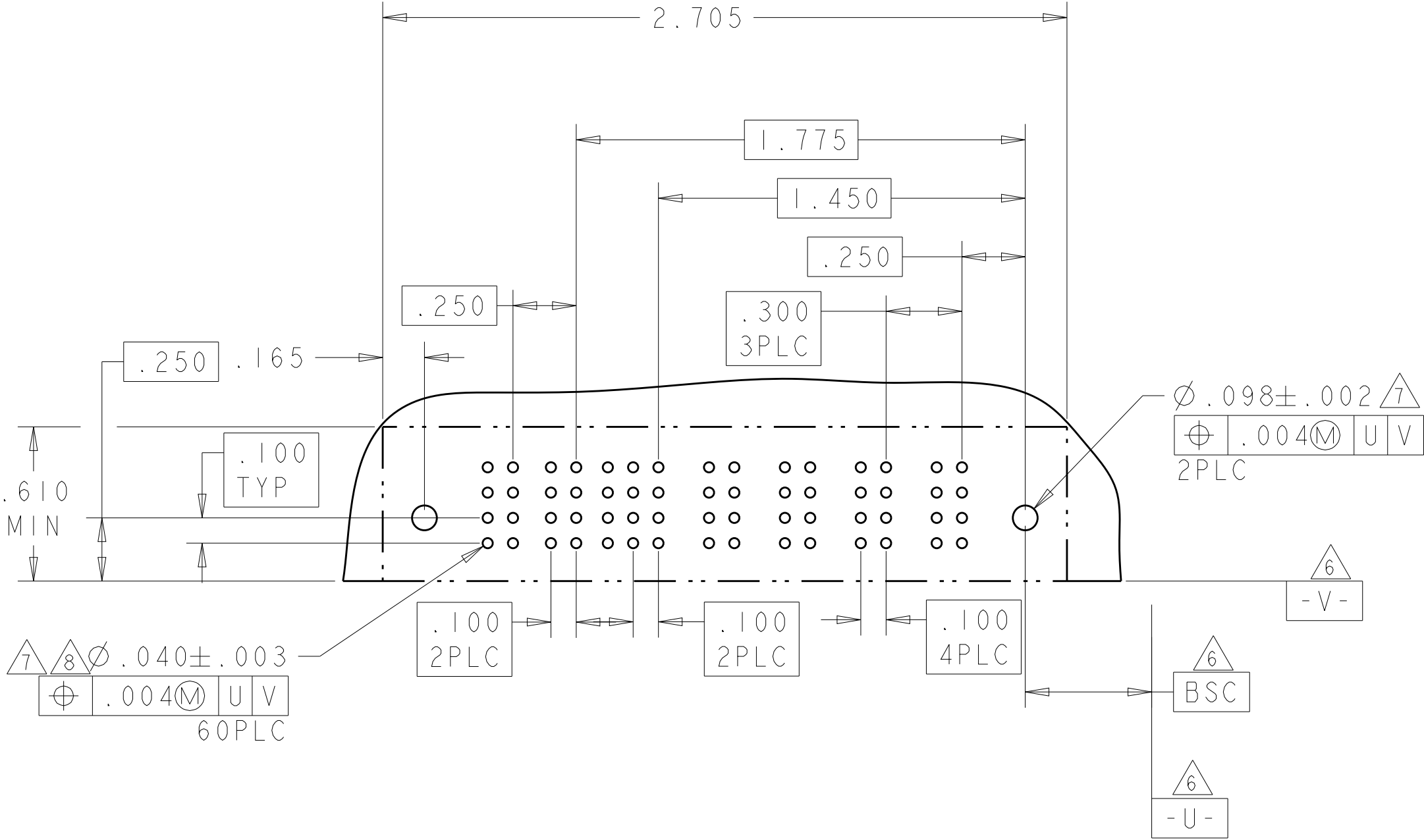
4805 (3/11)

PART NUMBER	ROWS		POWER			SIGNAL						POWER				
			P7	P6	P5	6	5	4	3	2	1	P4	P3	P2	P1	
I-6450170-8	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						
4P + 24S + 3ACP																

4805 (3/11)

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

PART NUMBER	ROWS		POWER		SIGNAL			POWER					
			P6	P5	3	2	1	P4	P3	P2	P1		
3-6450170-3	D												
	C												
	B												
	A												
	4ACP + 12S + 2P												

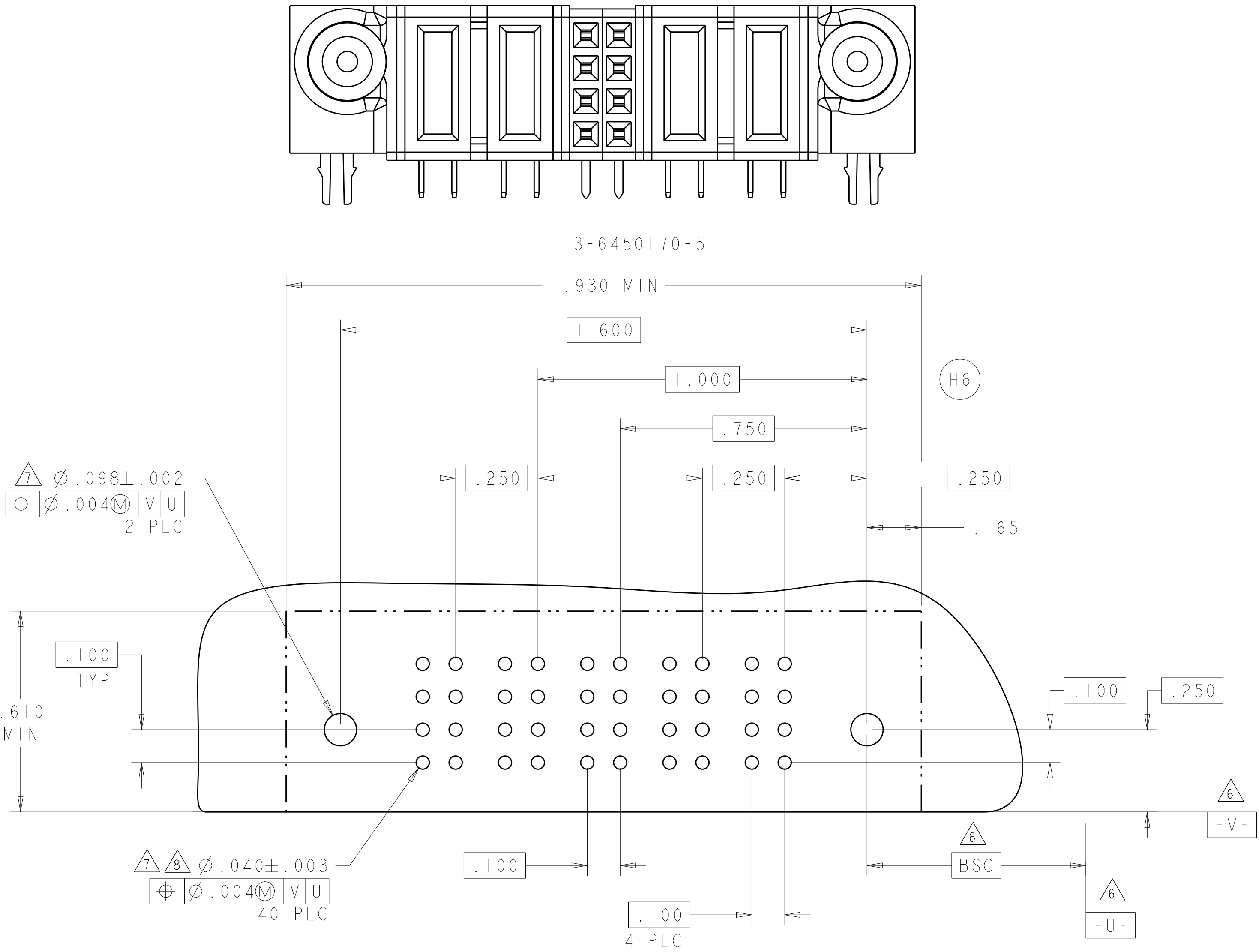
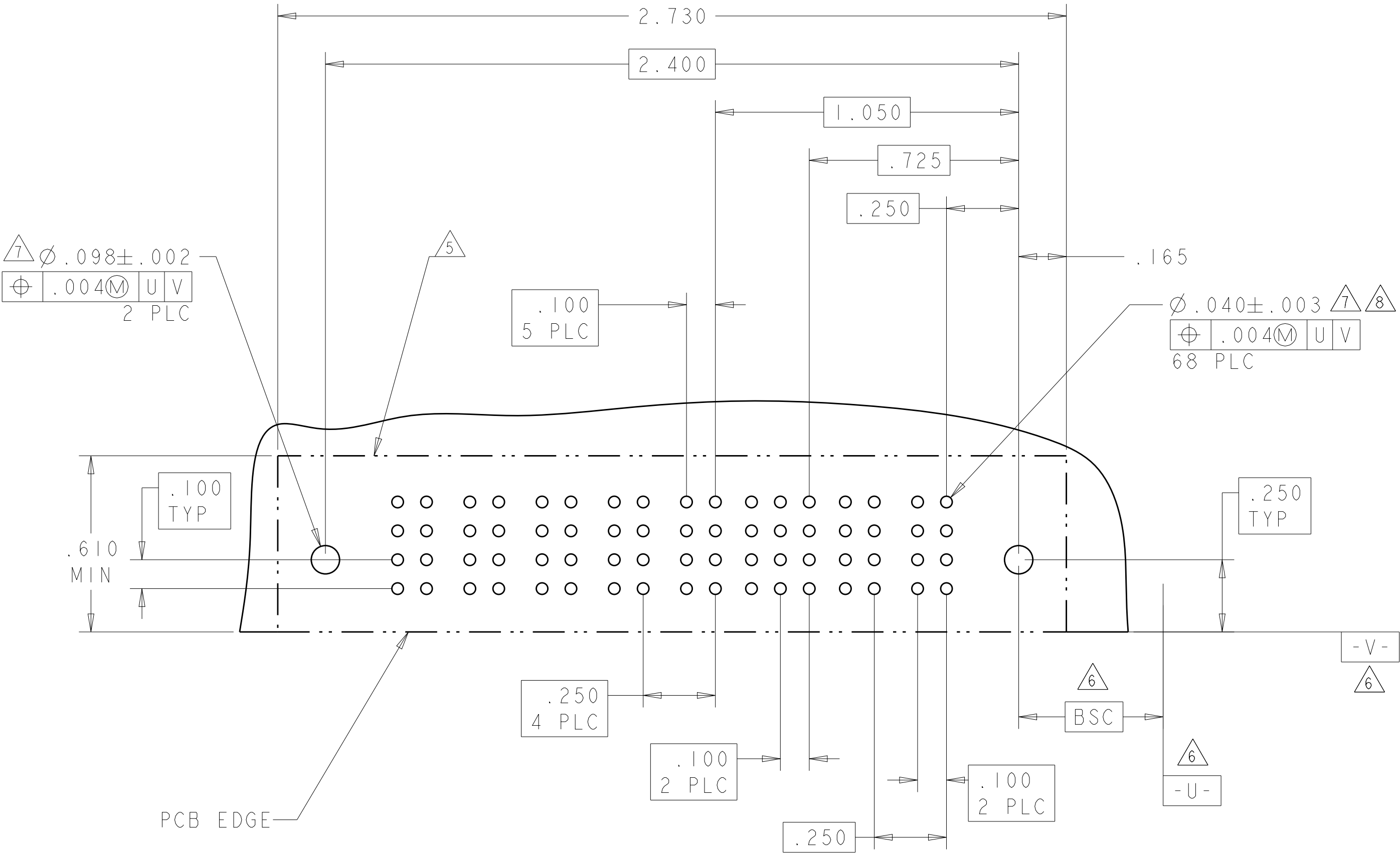


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R.GRZYBOWSKI	21FEB05		
		CHK M.PERCHEKKE	21FEB05		
DIMENSIONS:		APVD M.PERCHEKKE	-	NAME	
INCHES		PRODUCT SPEC		RIGHT ANGLE RECEPTACLE ASSEMBLY	
		108-1973		WITH GUIDES	
		APPLICATION SPEC		MULTI-BEAM XL	
MATERIAL		114-13038		SIZE	RESTRICTED TO
		WEIGHT		CAGE CODE	DRAWING NO
		CUSTOMER DRAWING		A100779	C=6450170
				SCALE	SHEET
				4:1	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			
			P7	P6	P5	P4	P3	3	2	1	P2	P1		
3-6450170-4	D		RM	RM	RM	RM	RM	H	H	H	RM	RM		
	C							G	G	G				
	B							F	F	F				
	A							E	E	E				
2P + 12S + 5P			HD											HD

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



THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN
R. GRZYBOWSKI
CHK
M. PERCHERKE
APVD
M. PERCHERKE

21FEB05
21FEB05
-

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

SCALE 4:1

SHEET 10 OF 13

REV J5

NAME

RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE

A1

CAGE CODE

100779

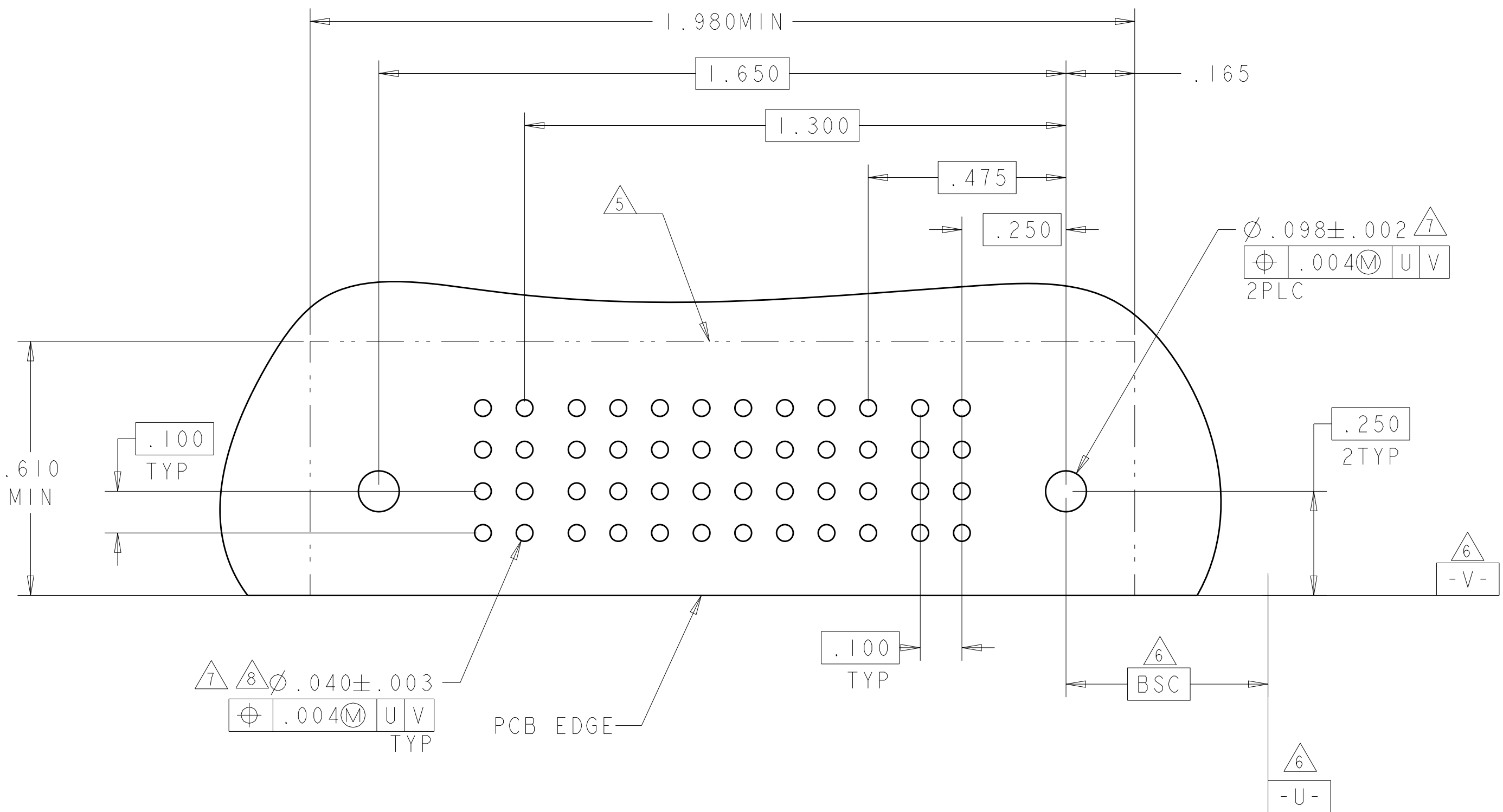
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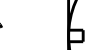
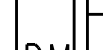
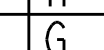
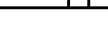
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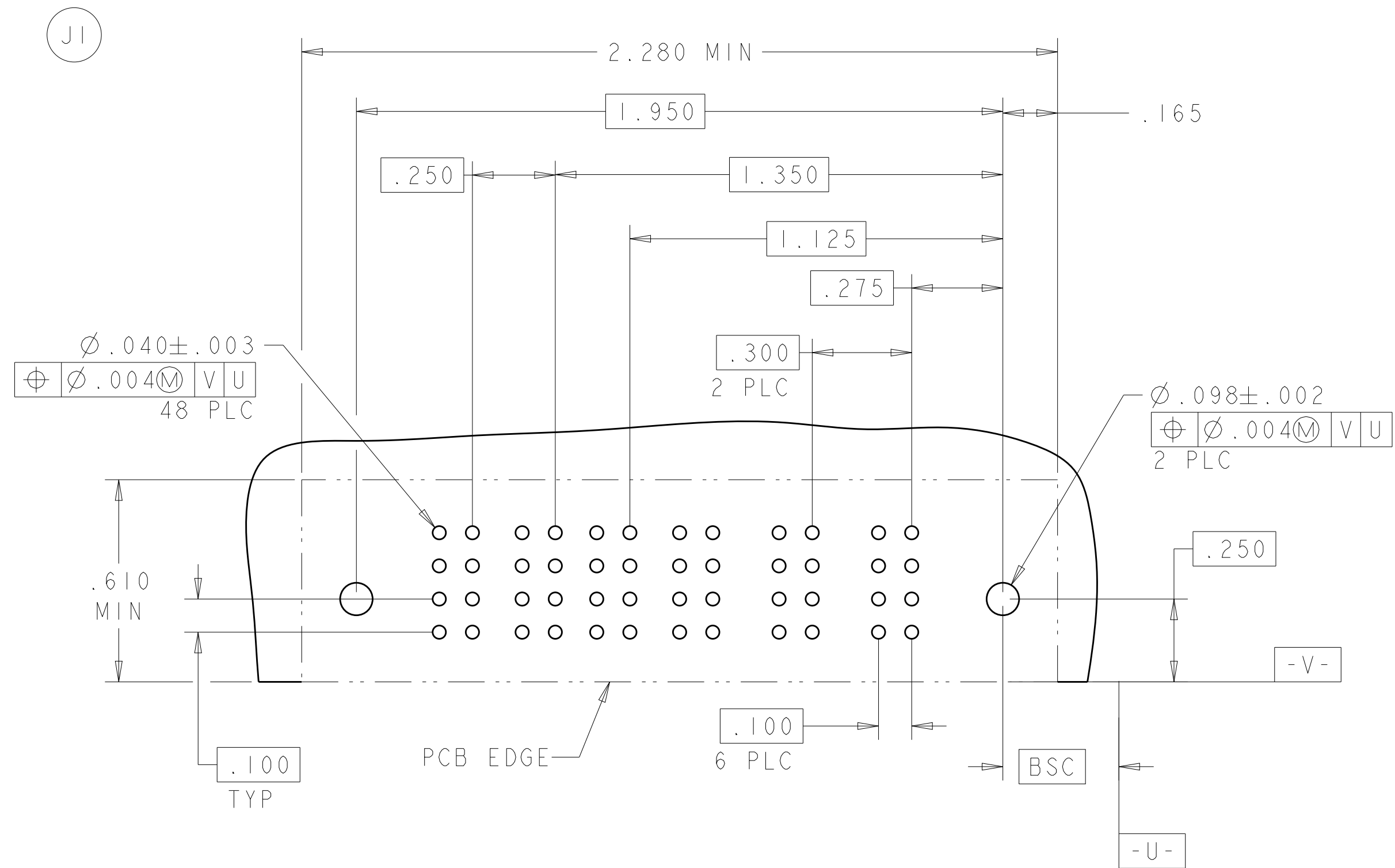
RESTRICTED TO

-

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

[illegible]4805 (3/11)