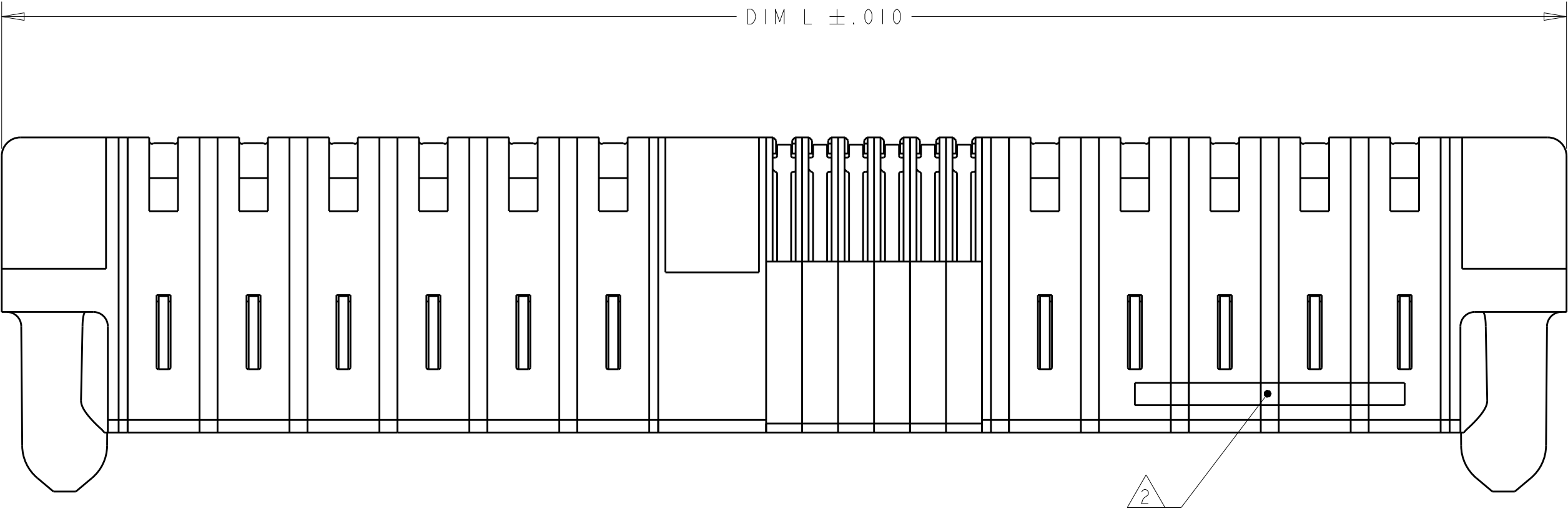
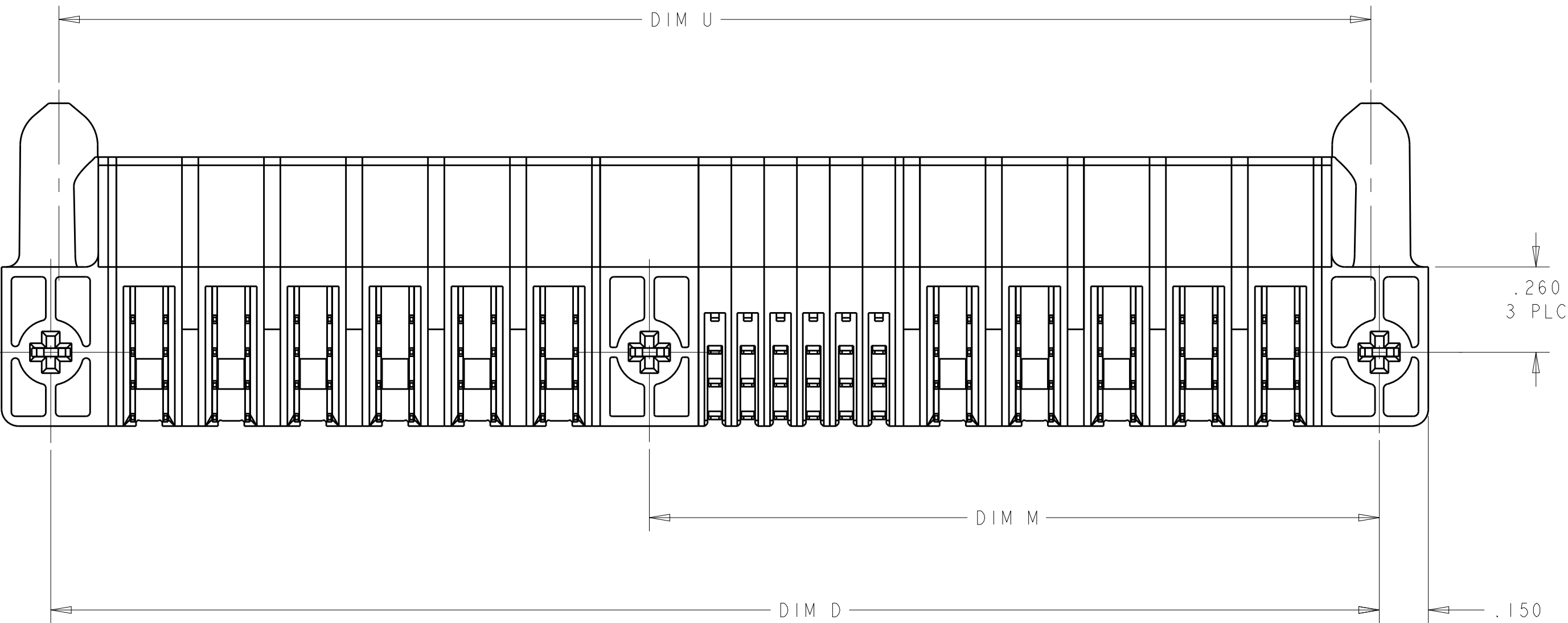
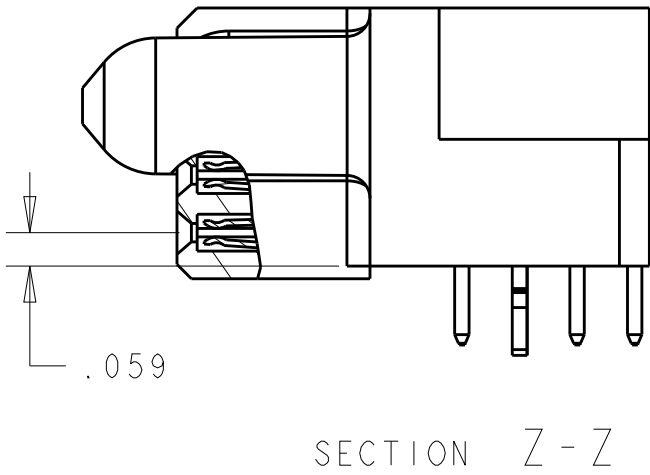
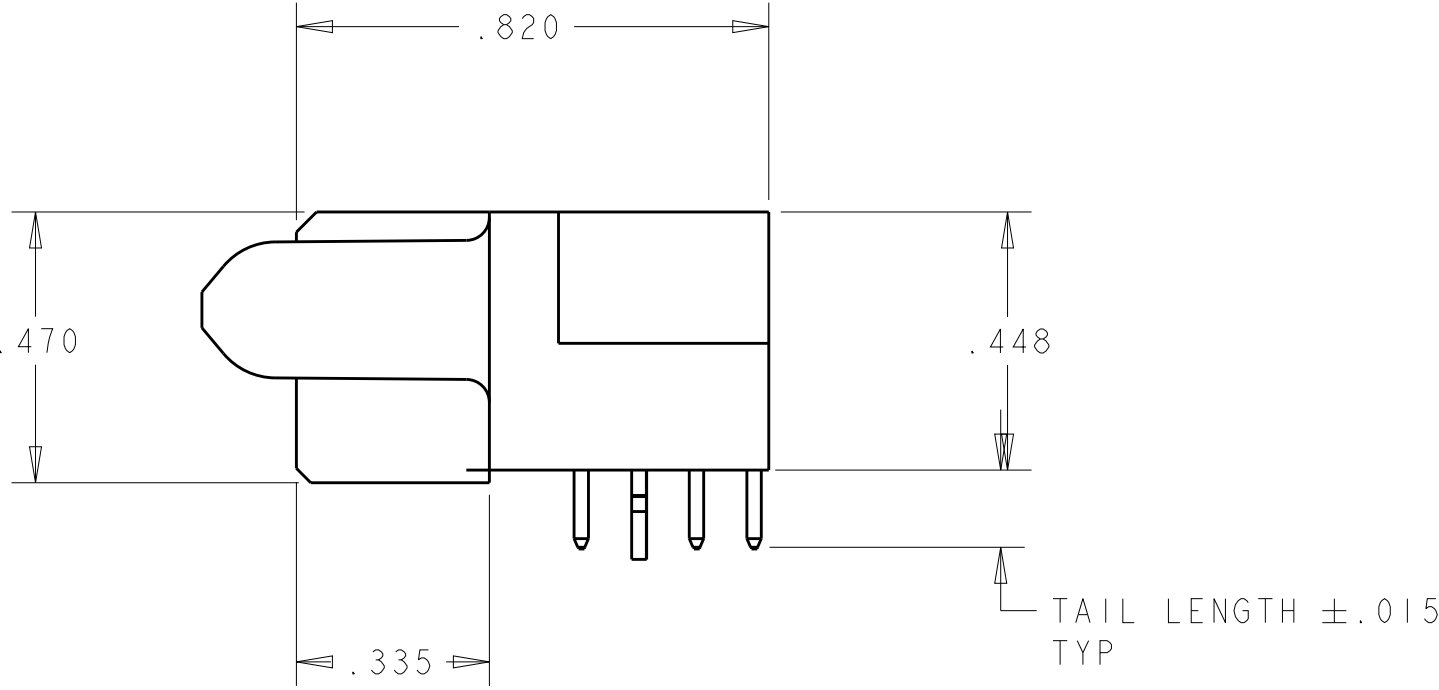
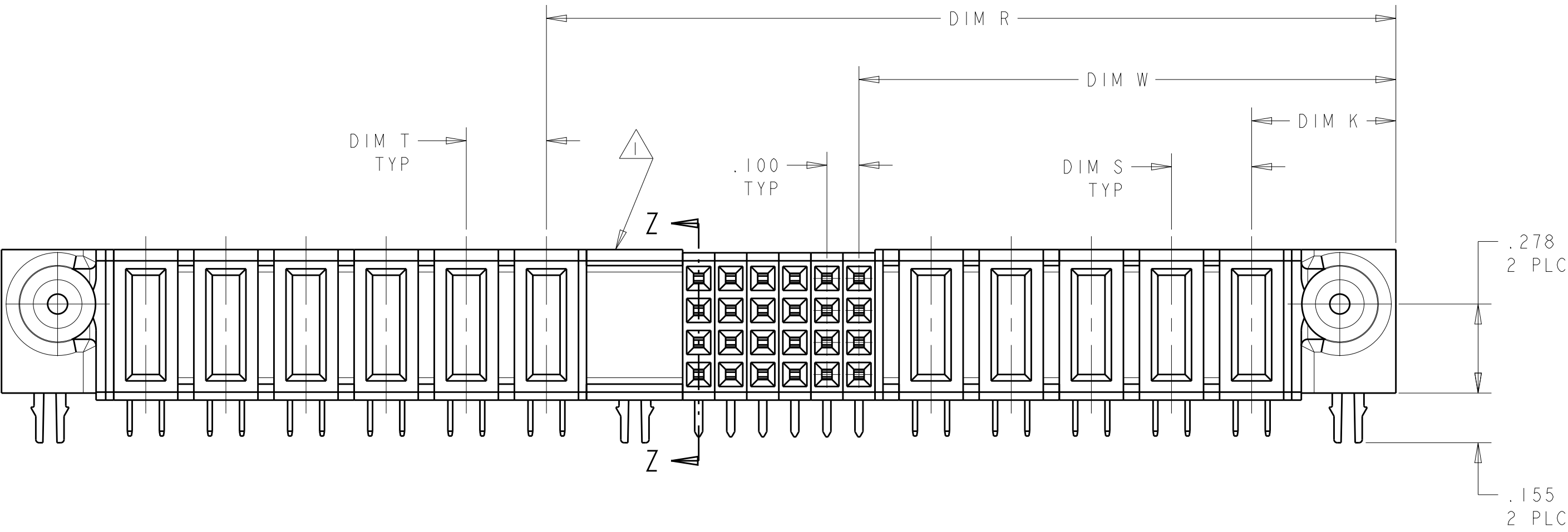


LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
GP	00		G	REV PER ECO-15-000526	19JAN2015	LAW	CZ



- 1 OPTIONAL CENTER MODULE, WITH Ø.150 THRU HOLE OR HOLD DOWN FEATURE.
- 2 "AMP", PART NUMBER, AND DATE CODE TO BE MARKED IN AREA SHOWN.
- 3 MATERIAL: HOUSING - GLASS FILLED HIGH TEMP THERMO PLASTIC, BLACK, UL94 V-0
SIGNAL CONTACT - HIGH CONDUCTIVITY COPPER ALLOY
POWER CONTACT - HIGH CONDUCTIVITY COPPER ALLOY
- 4 CONTACT PLATING: NOBLE 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 DIMENSIONS.
- 8 PCB- Ø.0453 +/- .0010 DRILLED HOLES PLATED WITH .0003 MIN Sn OVER .001-.003 CU PLATING TO ACHIEVE A Ø.040±.003 HOLE.



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R.GRZYBOWSKI 21FEB05	TE Connectivity	
		CHK M.PERCHEKKE 21FEB05		
DIMENSIONS:		APVD M.PERCHEKKE 21FEB05	NAME RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL	
INCHES		PRODUCT SPEC		
	0 PLC	±"	SIZE A100779C=6450160	
	1 PLC	±.01		
	2 PLC	±.01		
	3 PLC	±.005	RESTRICTED TO	
	4 PLC	±.002		
	ANGLES	#2°		
MATERIAL	FINISH	WEIGHT	Customer Drawing	
3		4	SCALE 3:1 SHEET 1 OF 16 REV G1	

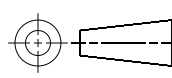
LOC	DIST	REVISIONS					
GP	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-		SEE SHEET 1	-	-	-

.700	-	-	-	.375	.750	-	1.050	-	16S	4-6450160-9
2.700	-	.200	2.600	1.425	2.750	-	3.050	.450	5P + 44S + 1P	4-6450160-8
4.000	-	-	-	.375	4.050	-	4.350	-	148S	4-6450160-6
2.000	.250	.250	1.650	.925	2.050	-	2.350	.450	2P + 24S + 2P	4-6450160-5
2.800	-	-	-	0.375	2.850	-	3.150	-	100S	4-6450160-4
1.100	-	-	1.000	.625	1.150	-	1.450	.450	1P + 12S + 1P	4-6450160-1
2.400	.250	.250	1.550	.875	2.450	-	2.750	.450	2P + 24S + 4P	4-6450160-0
4.700	.250	.250	2.850	2.375	4.750	-	5.050	.450	8P + 16S + 8P	3-6450160-9
5.400	.300	.300	2.875	2.175	5.450	-	5.750	.475	6P + 24S + 9P	3-6450160-8
2.900	.250	.250	2.050	1.375	2.950	-	3.250	.450	4P + 24S + 4P	3-6450160-7
3.900	.250	.250	2.550	1.875	3.950	-	4.250	.450	6P + 24S + 6P	3-6450160-6
3.800	.250	.250	3.450	.875	3.850	-	4.150	.450	2P + 100S + 2P	3-6450160-4
3.700	.300	.200	2.700	2.025	3.750	-	4.050	.450	8P+24S+4ACP	3-6450160-3
2.800	.300	.250	2.075	1.375	2.850	-	3.150	.450	4P + 24S + 3ACP	3-6450160-2
1.700	.250	.250	1.350	.875	1.750	-	2.050	.450	2P + 16S + 2P	3-6450160-1
4.375	.300	.250	3.375	2.375	3.450	2.950	4.725	.450	8P+24S+1M+4ACP	3-6450160-0
4.100	.250	.300	2.250	1.575	4.150	-	4.450	.475	4ACP + 24S + 8P	2-6450160-9
2.000	.250	.300	1.650	1.325	2.050	-	2.350	.475	3ACP + 8S + 2P	2-6450160-7
2.600	.200	.200	1.900	1.225	2.650	-	2.950	.450	4HDP + 24S + 4HDP	2-6450160-6
2.000	.250	.250	1.650	.925	2.050	-	2.350	.450	2P + 24S + 2P	2-6450160-5
4.000	.250	.250	2.650	1.675	4.050	2.225	4.350	.450	5P + 24S + 1M + 6P	2-6450160-0
3.300	.250	.250	2.450	1.875	3.350	-	3.650	.450	6P + 20S + 4P	1-6450160-9
4.675	.300	.250	3.950	3.375	4.725	-	5.025	.450	12P + 20S + 3ACP	1-6450160-8
3.250	.250	.250	2.900	1.125	3.300	-	3.600	.450	3P + 68S + 2P	1-6450160-3
.900	-	-	-	.375	.950	-	1.250	-	0P + 24S + 0P	1-6450160-2
1.900	-	-	.975	.625	1.950	-	2.250	.450	1P + 12S + 5P	1-6450160-1
1.900	.250	.250	1.550	.875	1.950	-	2.250	.450	2P + 24S + 2P	1-6450160-0
3.300	.250	.250	2.450	1.875	3.350	-	3.650	.450	6P + 20S + 4P	6450160-9
2.400	.250	.250	1.800	1.125	2.450	-	2.750	.450	3P + 24S + 3P	6450160-8
3.050	.250	.300	1.950	1.275	3.100	-	3.400	.475	3ACP + 24S + 5P	6450160-7
7.400	.250	.250	5.050	2.875	7.450	-	7.750	.450	10P + 84S + 10P	6450160-6
4.000	.250	.250	2.650	1.675	4.050	2.225	4.350	.450	5P + 24S + 1M + 6P	6450160-5
4.000	.250	.250	2.650	1.675	4.050	2.225	4.350	.450	5P + 24S + 1M + 6P	6450160-4
1.575	-	-	1.425	.700	1.625	-	1.925	.475	1P + 24S + 1P	6450160-3
1.575	-	-	1.425	.700	1.625	-	1.925	.475	1P + 24S + 1P	6450160-2
5.100	.250	.250	3.250	2.375	5.150	-	5.450	.450	8P + 32S + 8P	6450160-1
U	T	S	R	W	D	M	L	K	DESCRIPTION	PART NUMBER

(E6) PART IS IN SHEET 15

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
INCHES



MATERIAL

TOLERANCES UNLESS OTHERWISE SPECIFIED:

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

DWN R. GRZYBOWSKI 21FEB05
CHK M. PERCHERKE 21FEB05
APVD M. PERCHERKE 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
100779

DRAWING NO
6450160

RESTRICTED TO
-

SCALE
3:1

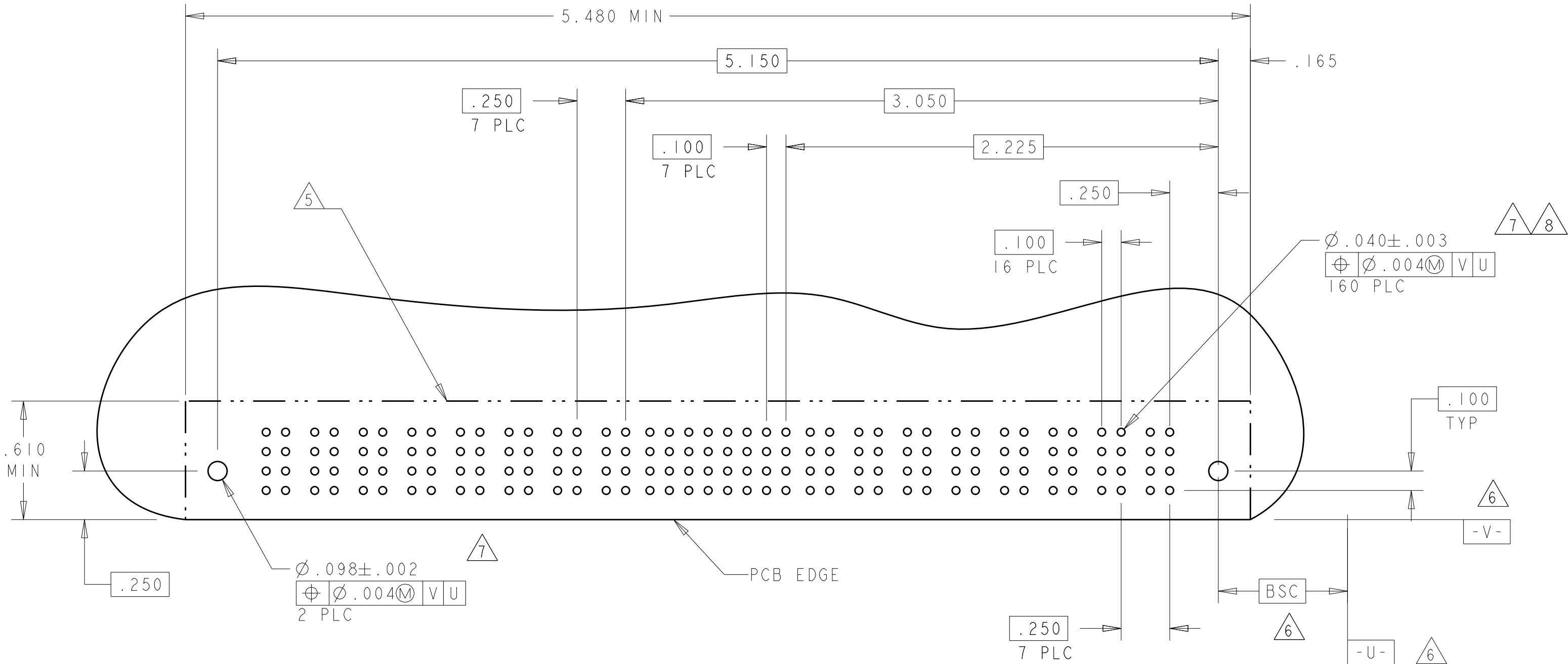
SHEET
2

OF
16

REV
G1

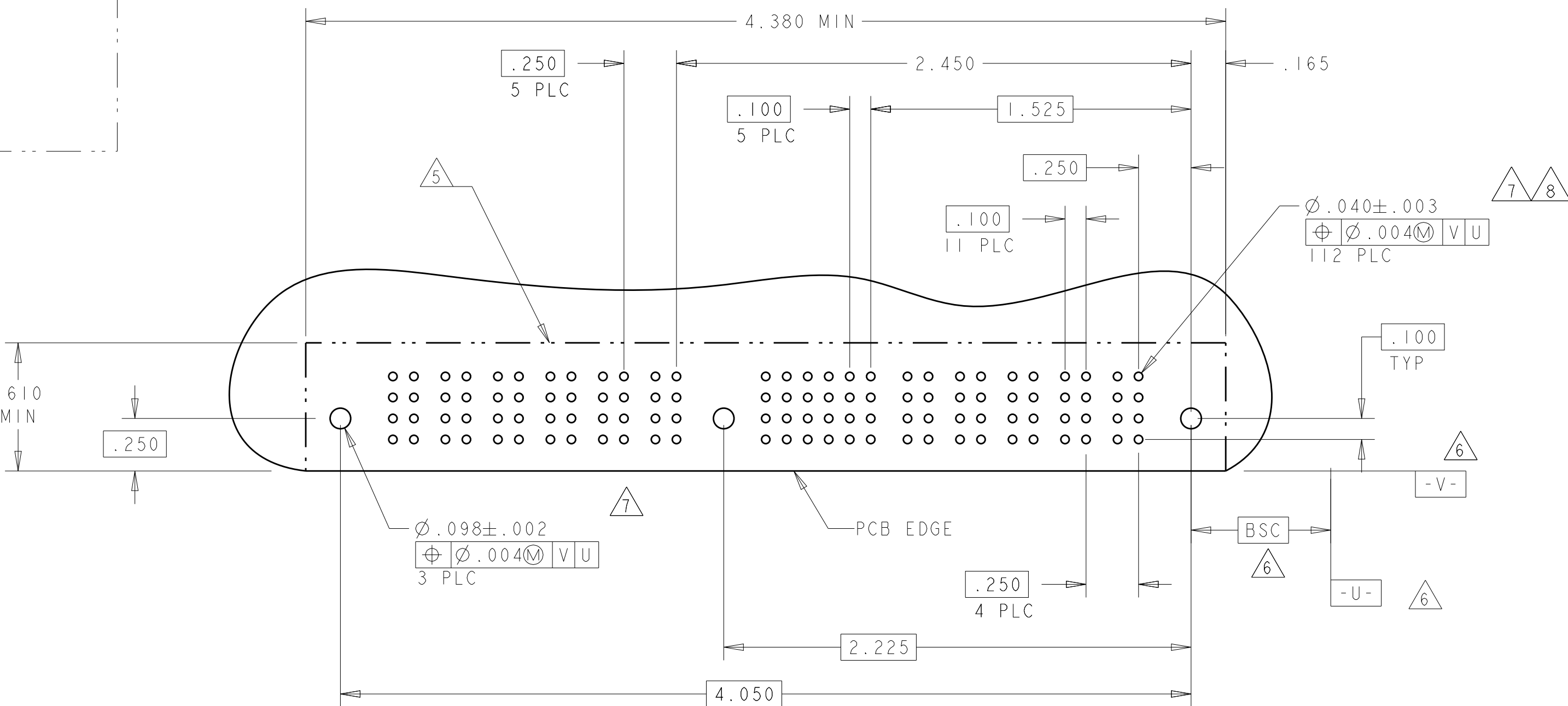
LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
GP	00	-	-	SEE SHEET 1	-	-	-

PART NUMBER	ROWS		POWER								SIGNAL								POWER														
			P16	P15	P14	P13	P12	P11	P10	P9	8	7	6	5	4	3	2	1	P8	P7	P6	P5	P4	P3	P2	P1							
6450160-1	D C B A		RA	RA	RA	RA	RA	RA	RA	H	G	H	G	H	G	H	G	H	G	H	G	H	G	H	G	RA	RA	RA	RA	RA	RA	RA	RA
9P + 36S + 8P																															HD		



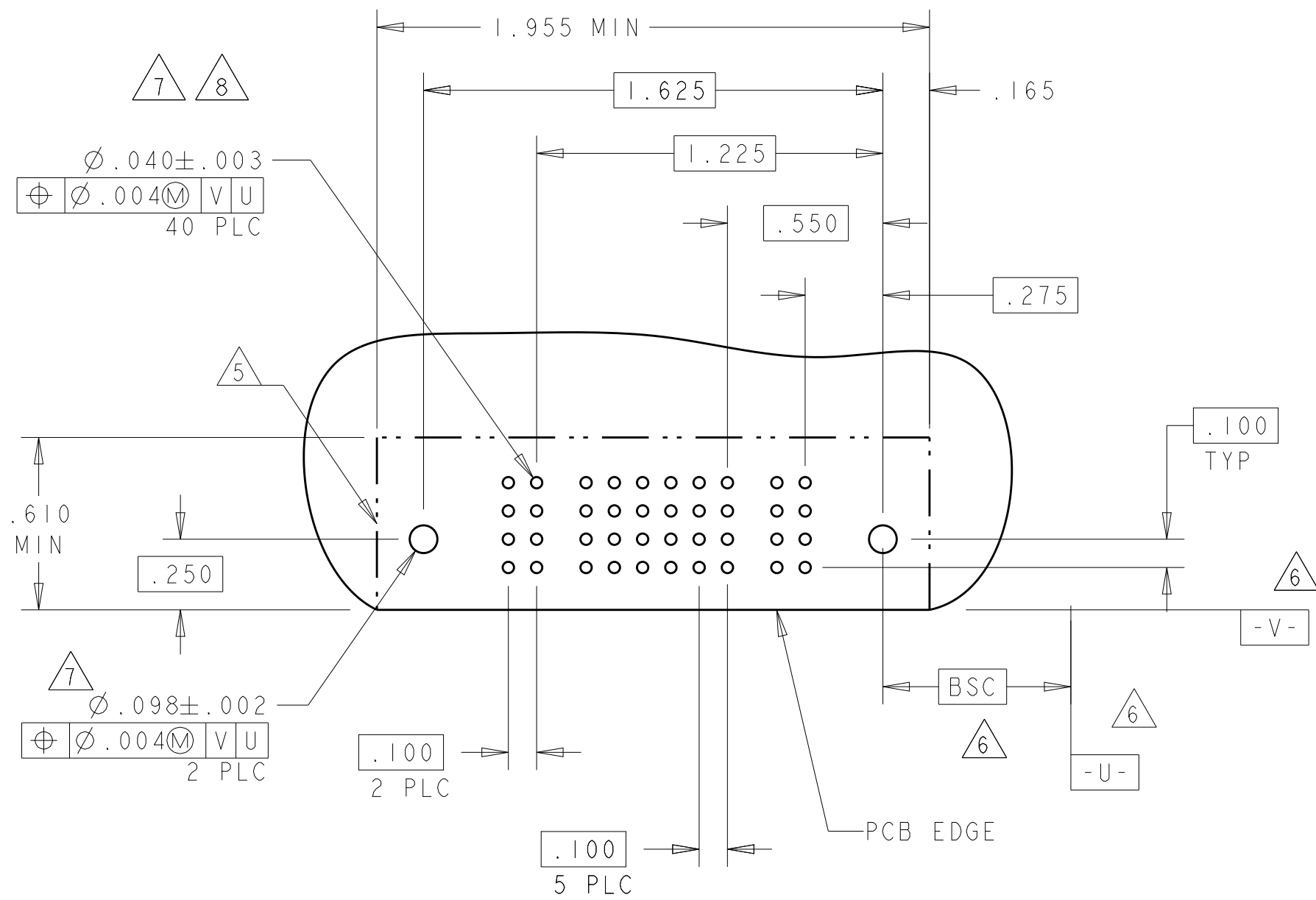
PART NUMBER	ROWS		POWER						MI	SIGNAL							POWER					
			P11	P10	P9	P8	P7	P6		6	5	4	3	2	1	P5	P4	P3	P2	P1		
6450160-4	D C B A		RB	RB	RB	RB	RB	HD	L	K	J	I	H	G	F	E	RB	RB	RB	RB	RB	
5P + 24S + 1M + 6P																						

PART NUMBER	ROWS		POWER						MI	SIGNAL							POWER					
			P11	P10	P9	P8	P7	P6		6	5	4	3	2	1	P5	P4	P3	P2	P1		
6450160-5	D C B A		RA	RA	RA	RA	RA	HD	H	G	F	E	H	G	F	E	RA	RA	RA	RA	HD	
5P + 24S + 1M + 6P																						



PART NUMBER	ROWS			POWER								SIGNAL								POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		P2		6	5	4	3	2	1	P1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
6450160-2	D C B A			RB	L	K	K	K	K	L	K	K																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

PART NUMBER	ROWS	POWER								SIGNAL								POWER																																																						
		P2	6	5	4	3	2	1	P1																																																															
6450160-3	D C B A	<table><tr><td rowspan="4">RA</td><td>H</td><td>H</td><td>H</td><td>H</td><td>G</td><td>G</td><td>G</td><td>G</td><td>G</td><td>G</td><td>G</td><td>G</td><td>G</td><td>G</td><td rowspan="4">RA</td></tr><tr><td>G</td><td>G</td><td>G</td><td>G</td><td>H</td><td>H</td><td>H</td><td>H</td><td>F</td><td>F</td><td>F</td><td>F</td><td>F</td></tr><tr><td>F</td><td>F</td><td>F</td><td>F</td><td>F</td><td>F</td><td>F</td><td>F</td><td>E</td><td>E</td><td>E</td><td>E</td><td>E</td></tr><tr><td>E</td><td>E</td><td>E</td><td>E</td><td>E</td><td>E</td><td>E</td><td>E</td><td></td><td></td><td></td><td></td><td></td></tr></table>																RA	H	H	H	H	G	G	G	G	G	G	G	G	G	G	RA	G	G	G	G	H	H	H	H	F	F	F	F	F	F	F	F	F	F	F	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E					
		RA	H	H	H	H	G	G	G	G	G	G	G	G	G	G	RA																																																							
			G	G	G	G	H	H	H	H	F	F	F	F	F																																																									
			F	F	F	F	F	F	F	F	E	E	E	E	E																																																									
E	E		E	E	E	E	E	E																																																																
HD																	HD																																																							
IP + 24S + IP																																																																								



RN	TAIL LENGTH	DESCRIPTION
RM	.135	STD
RA	.135	MFBL
RB	.090	MFBL
CODE	TAIL LENGTH	DESCRIPTION
POWER CONTACT		

L	.090	D
K	.090	C
J	.090	B
I	.090	A
H	.135	D
G	.135	C
F	.135	B
E	.135	A
CODE	TAIL LENGTH	ROW
SIGNAL CONTACT		

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OWN R.GRZYBOWSKI 21FEB05
CHK M.PERCHEKKE 21FEB05
APVD M.PERCHEKKE 21FEB05

PRODUCT SPEC
108-1973
APPLICATION SPEC
114-13038

WEIGHT
-

Customer Drawing

TE Connectivity

RIGHT ANGLE RECEPTACLE ASSEMBLY
WITH GUIDES
MULTI-BEAM XL

SIZE CAGE CODE DRAWING NO
A100779C=6450160

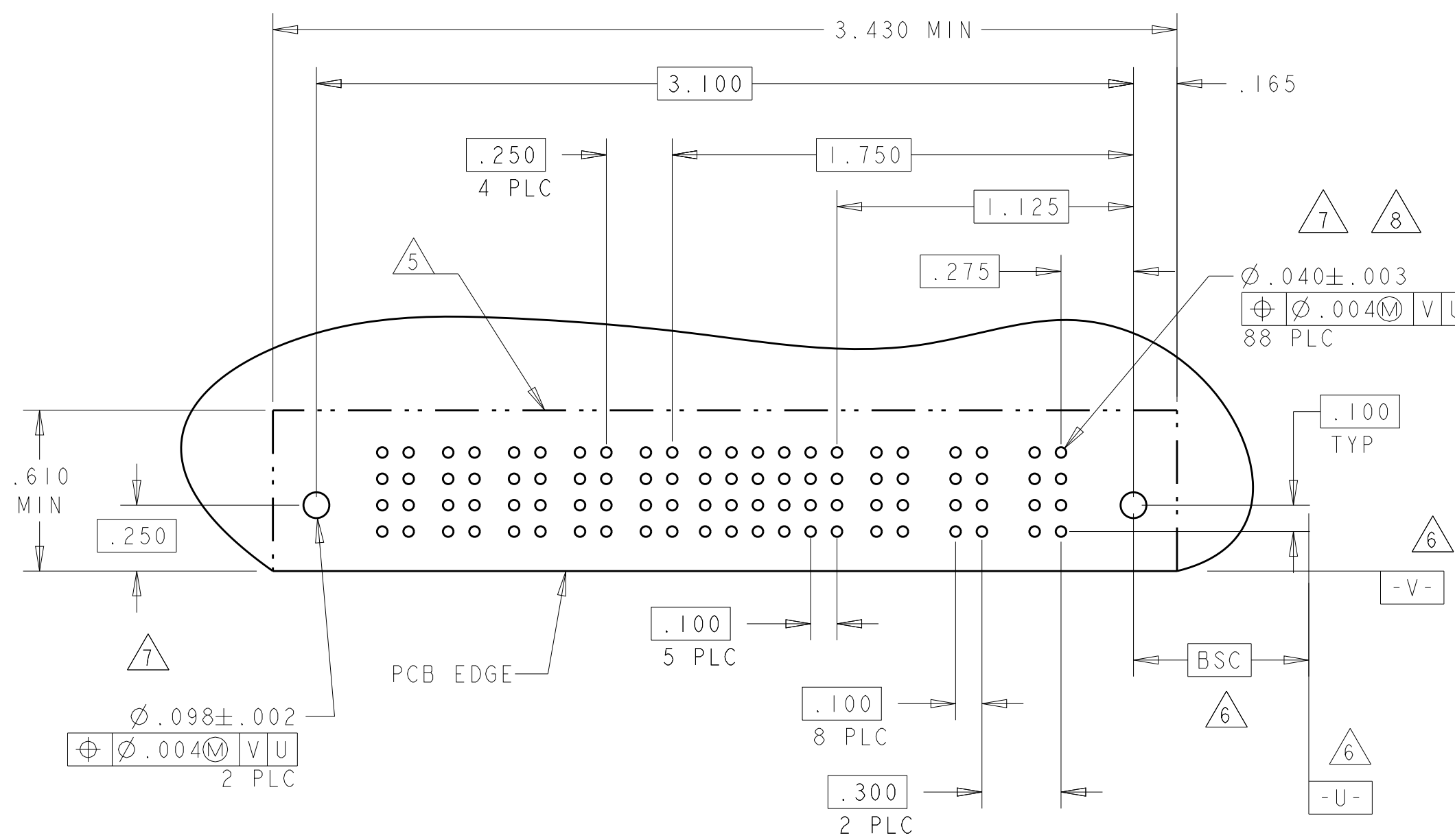
RESTRICTED TO
-

SCALE 4:1

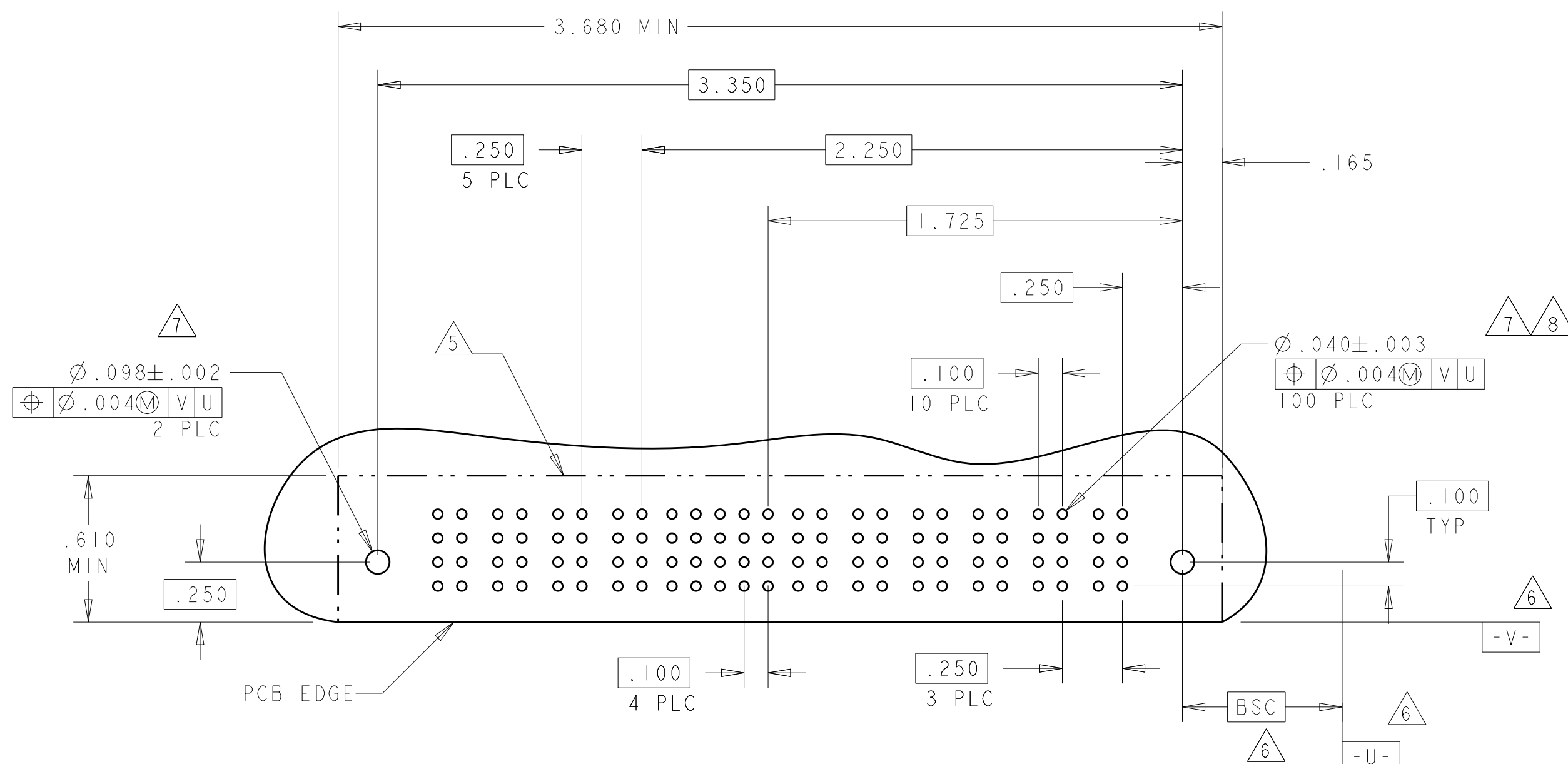
SHEET 3 OF 16

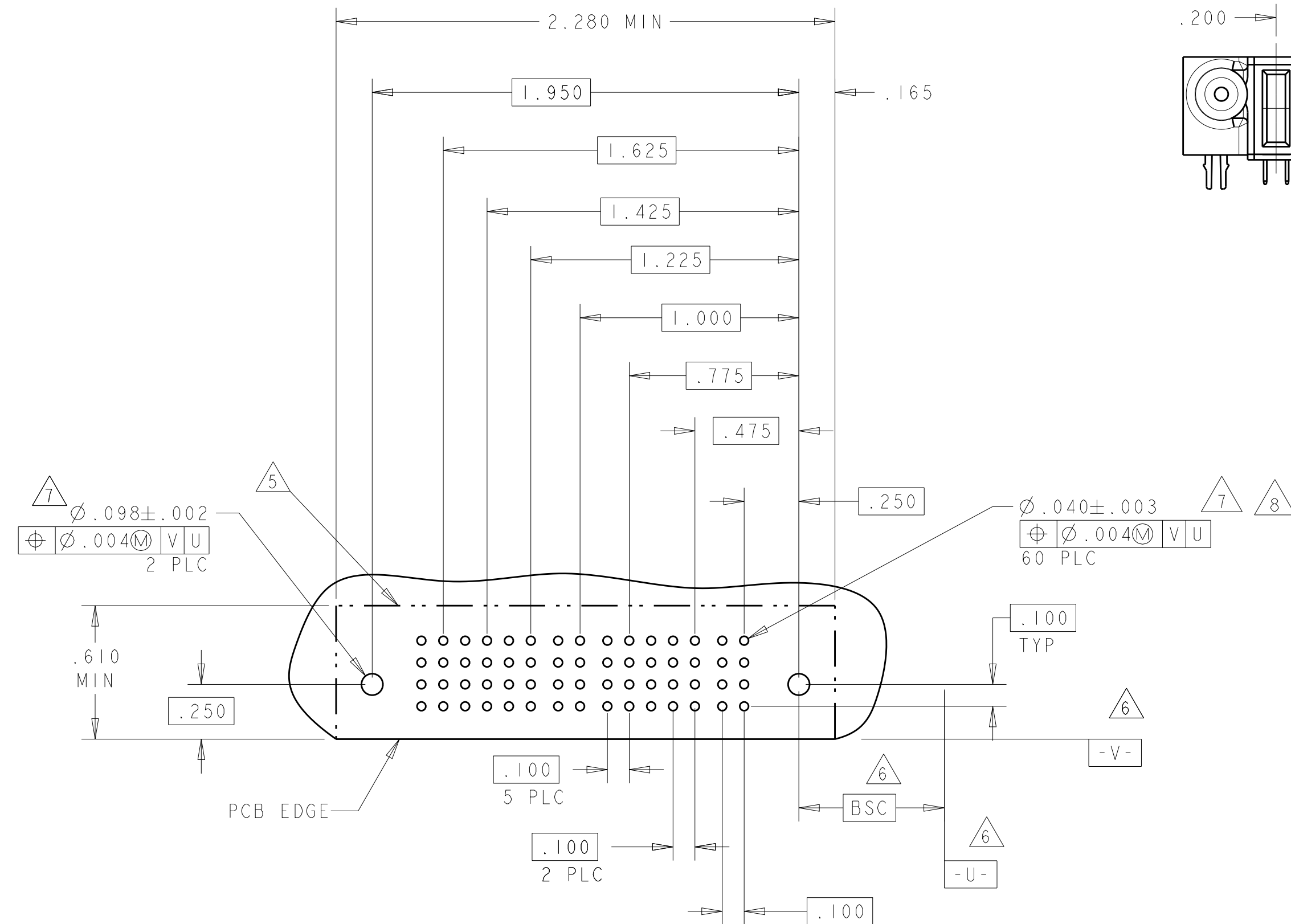
REV G1

PART NUMBER	ROWS		POWER					SIGNAL					POWER			
			P8	P7	P6	P5	P4	G6	5	4	3	2	1	P3	P2	
6450160-7	D C B A		RA	RA	RA	RA	RA	H	H	H	H	H	RA	RA	RA	
								G	G	G	G	G				G
								F	F	F	F	F				
								E	E	E	E	E				
3ACP + 24S + 5P																

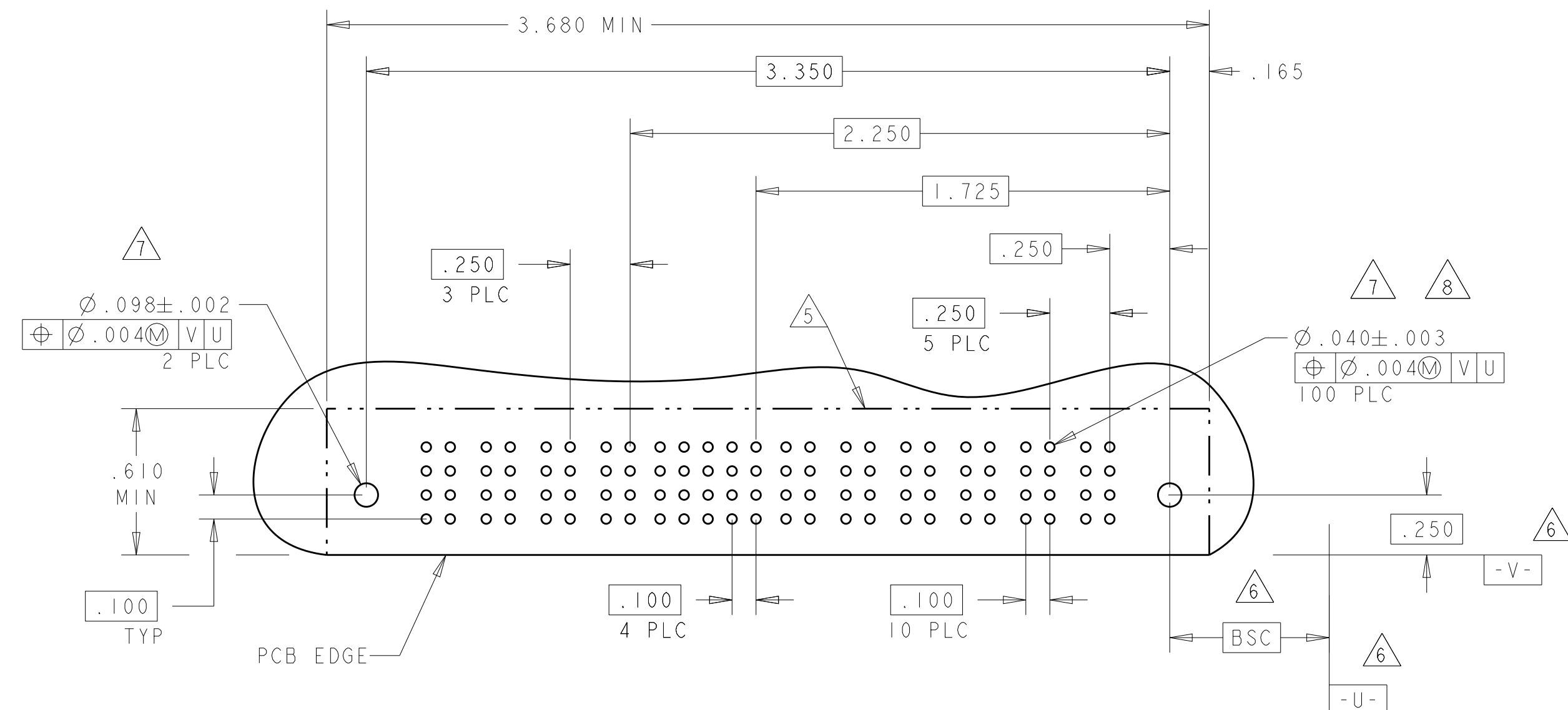


PART NUMBER	ROWS		POWER				SIGNAL				POWER									
			P10	P9	P8	P7	5	4	3	2	1	P6	P5	P4	P3	P2		P1		
6450160-9	D C B A		RA	RA	RA	RA	G	H	H	H	H	G	RA	RA	RA	RA	RA	RA		
6P + 20S + 4P																				

4805 (3/11)

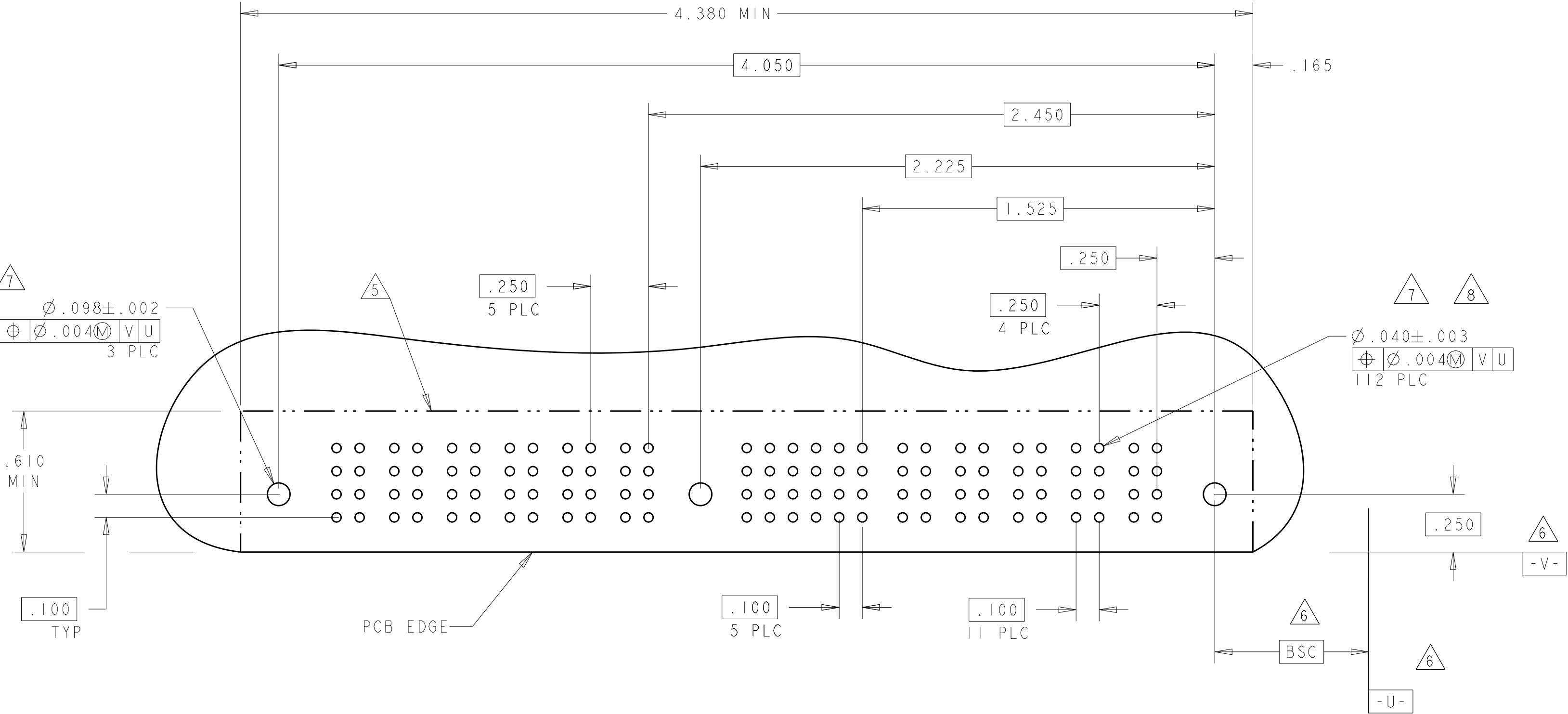


PART NUMBER	ROWS		POWER				SIGNAL					POWER					
			PI0	P9	P8	P7	5	4	3	2	1	P6	P5	P4	P3	P2	
1-6450160-9	D C B A																
				HD													HD
6P + 20S + 4P																	

4805 (3/11)

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

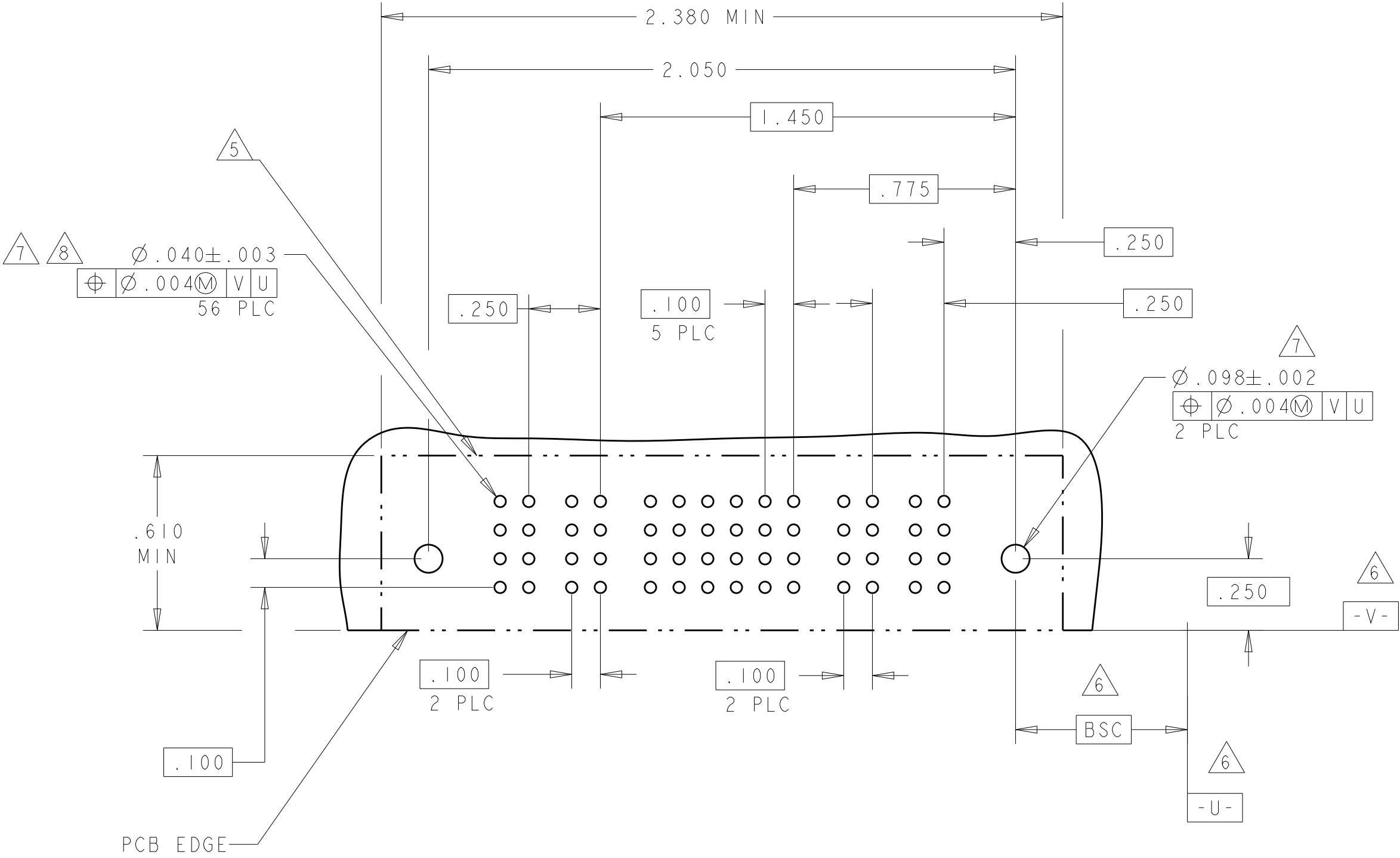
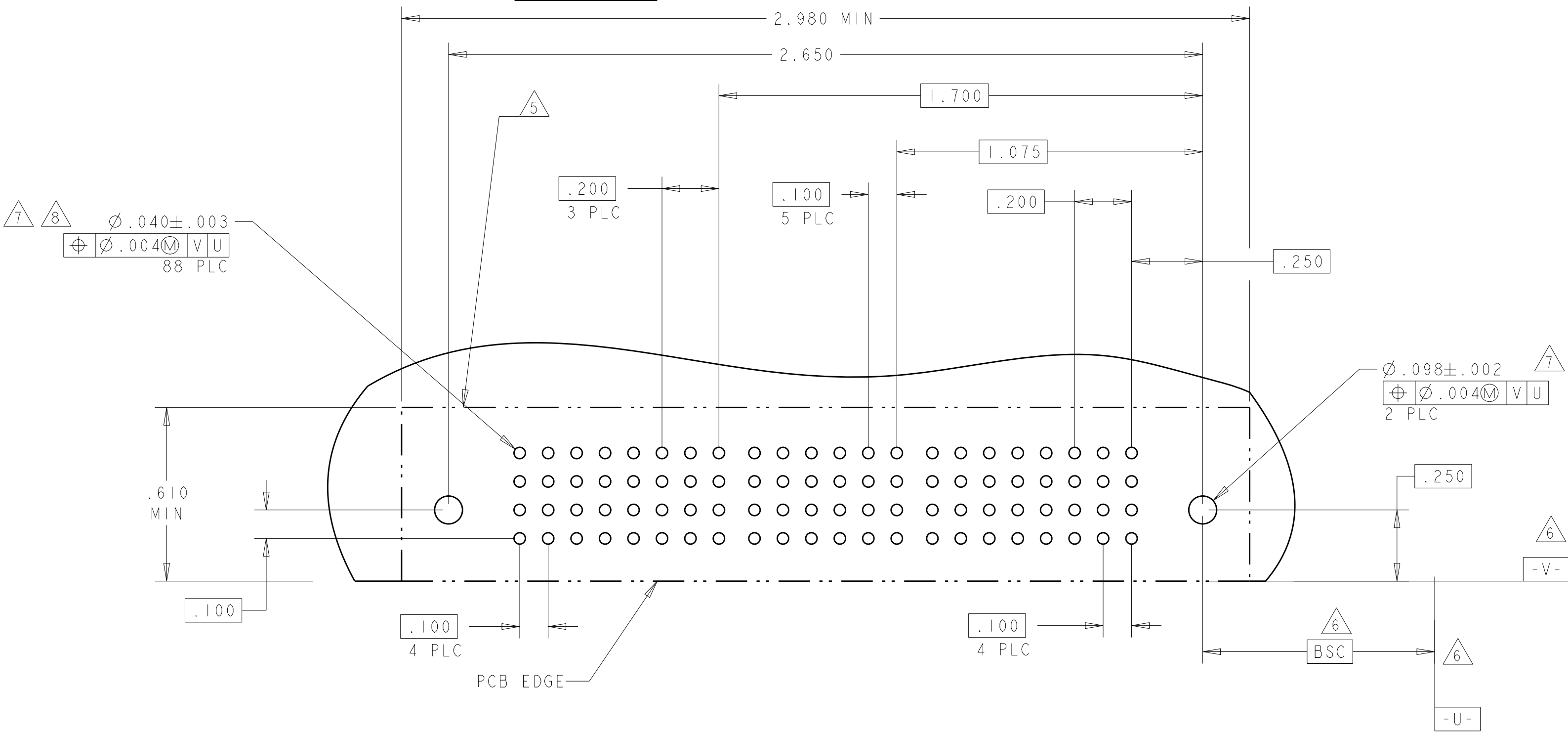
PART NUMBER	ROWS		POWER						MI	SIGNAL						POWER					
			P11	P10	P9	P8	P7	P6		6	5	4	3	2	1	P5	P4	P3	P2	P1	
2-6450160-0	D C B A																				
5P + 24S + 1M + 6P																					



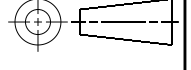
PART NUMBER	ROWS	POWER		SIGNAL						POWER					
		P4	P3	6	5	4	3	2	1	P2	P1				
2-6450160-5	D C B A			RN	RN	L	L	L	L	L	L	L	RN	RN	
						K	K	K	K	K	K	K	RN	RN	
						J	J	J	J	J	J	J	RN	RN	
						I	I	I	I	I	I	I	RN	RN	
2P + 24S + 2P															

PART NUMBER	ROWS		POWER		SIGNAL						POWER		
			P4	P3	6	5	4	3	2	1	P2	P1	
4-6450160-5	D C B A	HD	RM	RM	H	H	H	H	H	H	RM	RM	HD
					G	G	G	G	G	G			
					F	F	F	F	F	F			
					E	E	E	E	E	E			
2P + 24S + 2P													

PART NUMBER	ROWS		POWER				SIGNAL						POWER					
			P8	P7	P6	P5	6	5	4	3	2	1	P4	P3	P2	P1		
2-6450160-6	D C B A		RM	RM	RM	RM	H	H	H	H	H	H	RM	RM	RM	RM		
							G	G	G	G	G	G						
							F	F	F	F	F	F						
							E	E	E	E	E	E						
4HDP + 24S + 4HDP																		

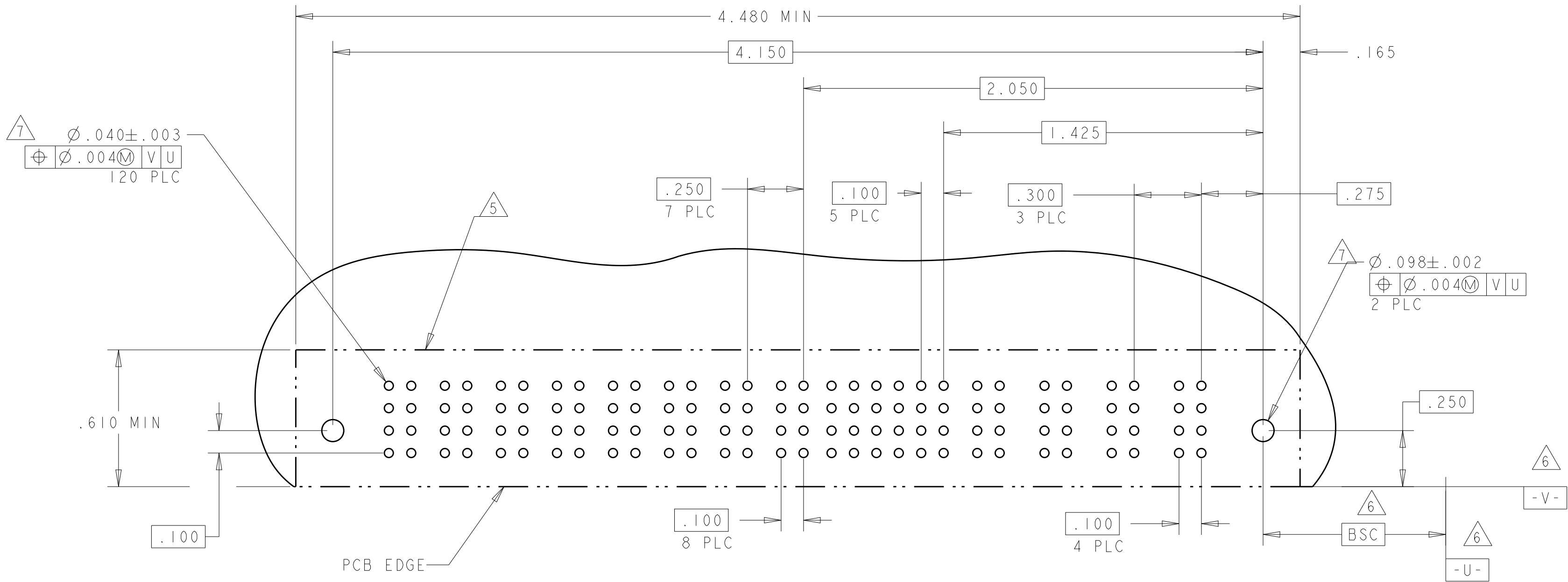


2-6450160-5 AND 4-6450160-5 PCB LAYOUT

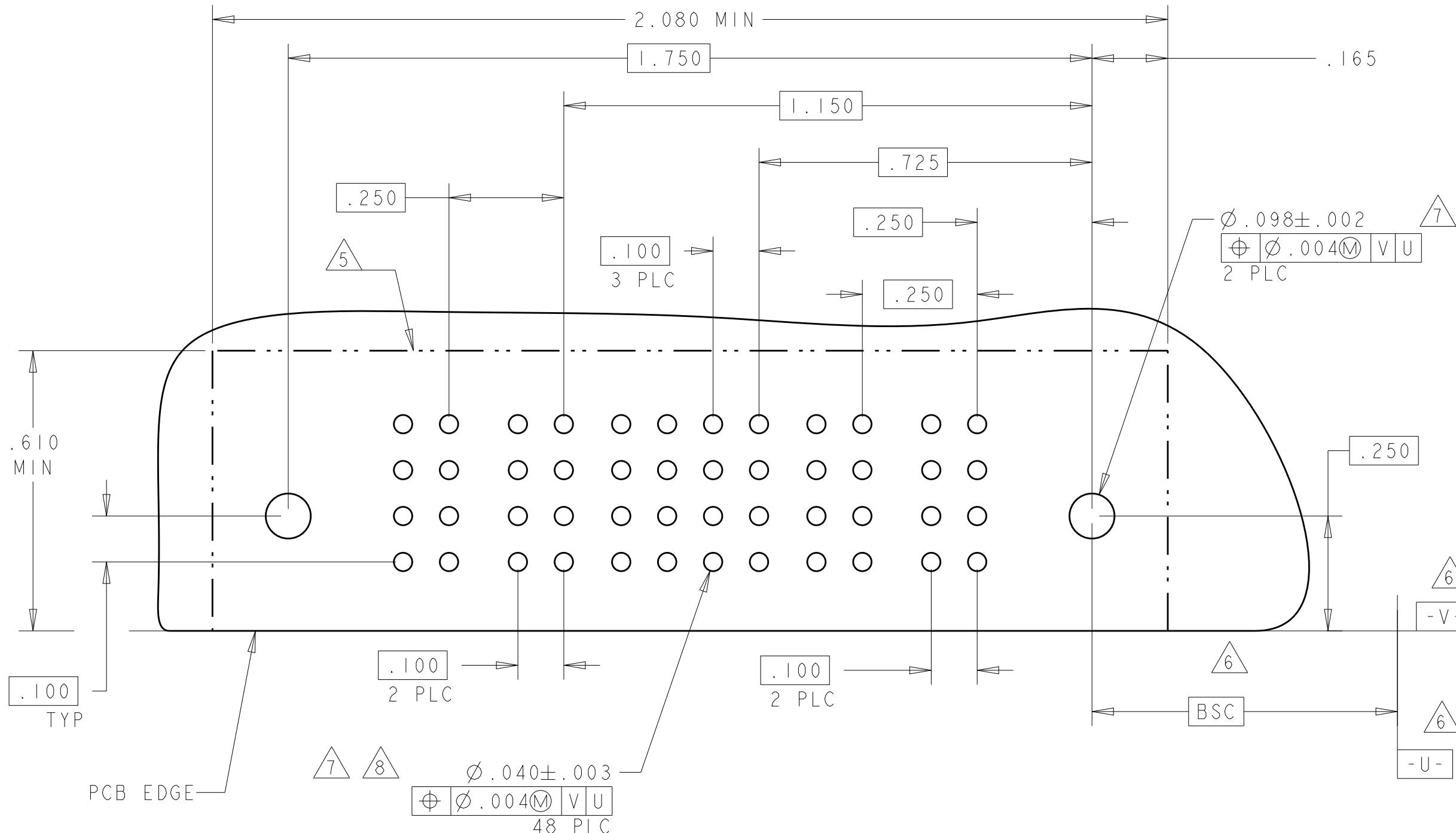
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R. GRZYBOWSKI	21FEB05	 TE Connectivity	
DIMENSIONS: INCHES		CHK M. PERCHERKE	21FEB05		
		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL	
		0 PLC ±.01 1 PLC ±.01 2 PLC ±.01 3 PLC ±.005 4 PLC ±.002 ANGLES ±.2°		PRODUCT SPEC 108-1973 APPLICATION SPEC 114-13038	
MATERIAL		FINISH		RESTRICTED TO	
				A100779C=6450160	
				Customer Drawing	
				SCALE 4:1 SHEET 6 OF 16 REV G1	

LOC		DIST		REVISONS			
P	LYR	DESCRIPTION		DATE	DWN	APVD	
-	-	SEE SHEET 1		-	-	-	

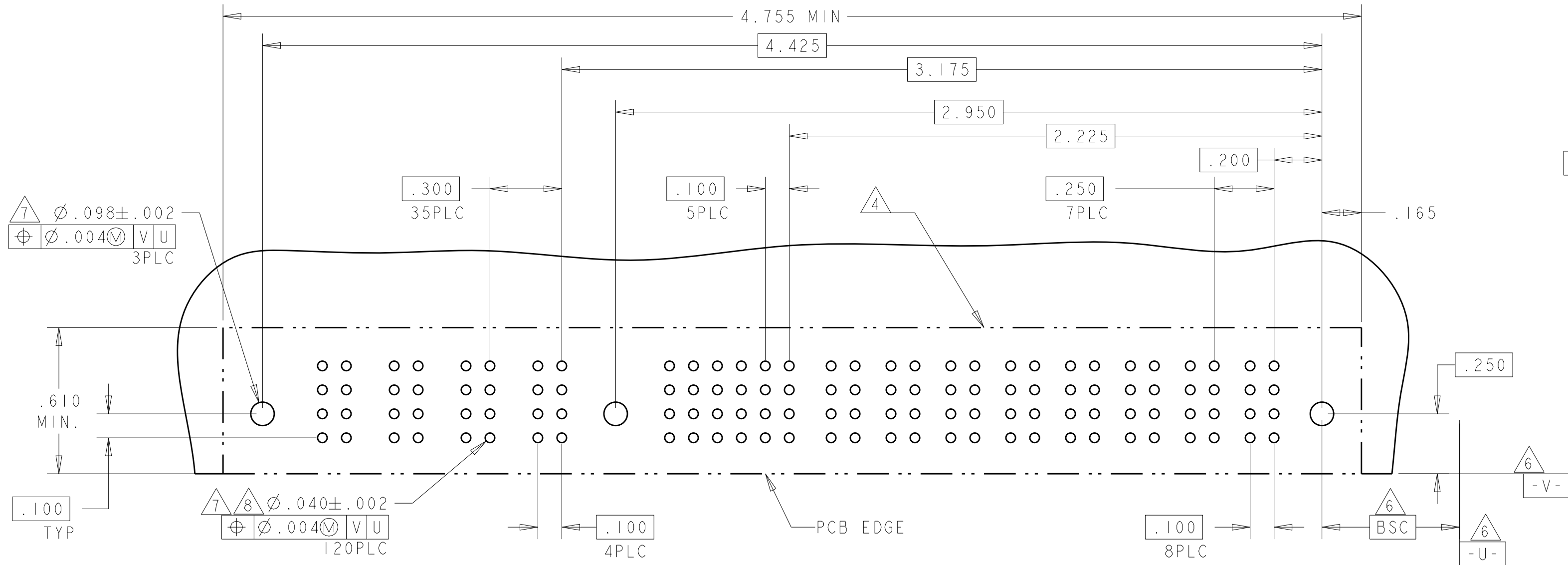
PART NUMBER	ROWS		POWER								SIGNAL						POWER				
			P12	P11	P10	P9	P8	P7	P6	P5	6	5	4	3	2	1	P4	P3	P2	P1	
2-6450160-9	D C B A									H	H	H	H	H	H						
										G	G	G	G	G	G						
										F	F	F	F	F	F						
										E	E	E	E	E	E						
4ACP + 24S + 8P																					



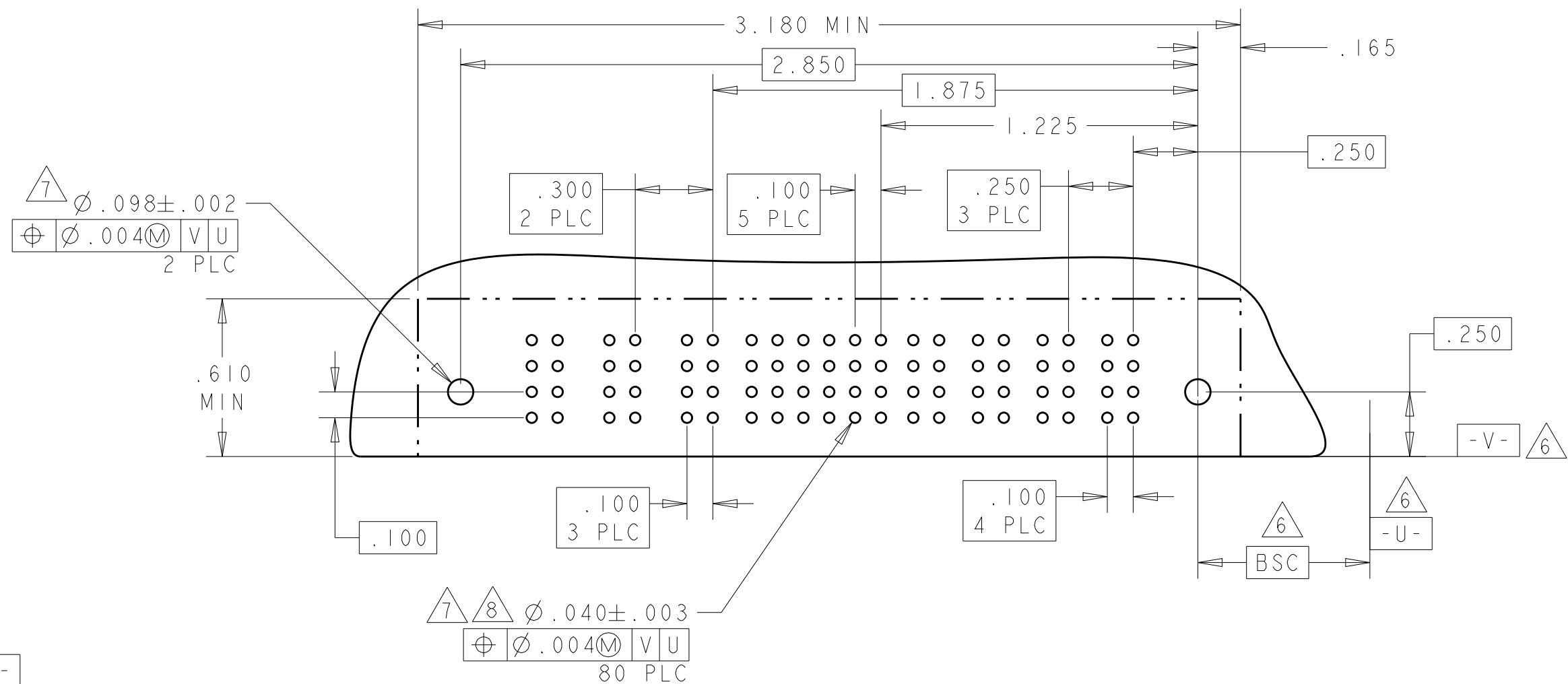
PART NUMBER	ROWS		POWER		SIGNAL				POWER				
			P4	P3	4	3	2	1	P2	P1			
3-6450160-1	D C B A												
2P + 16S + 2P													



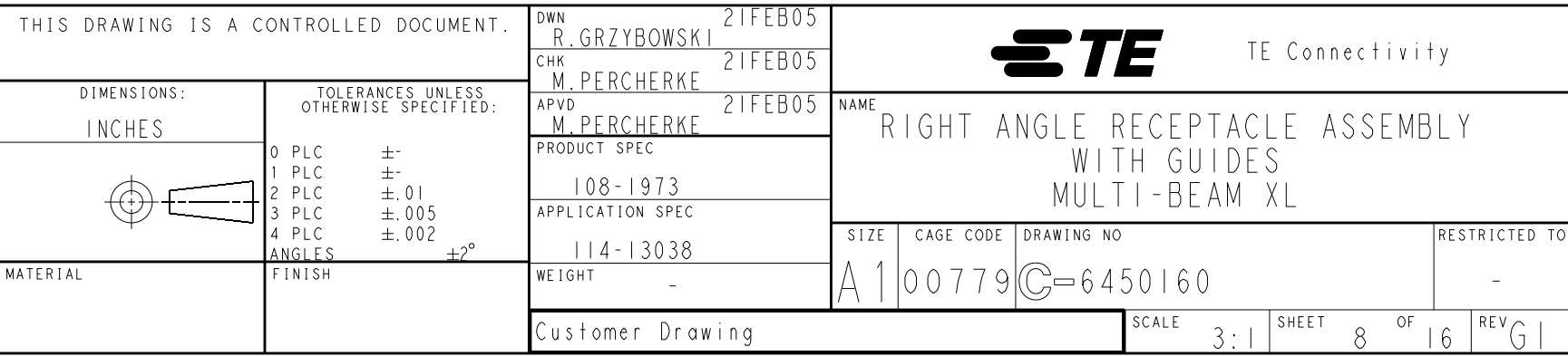
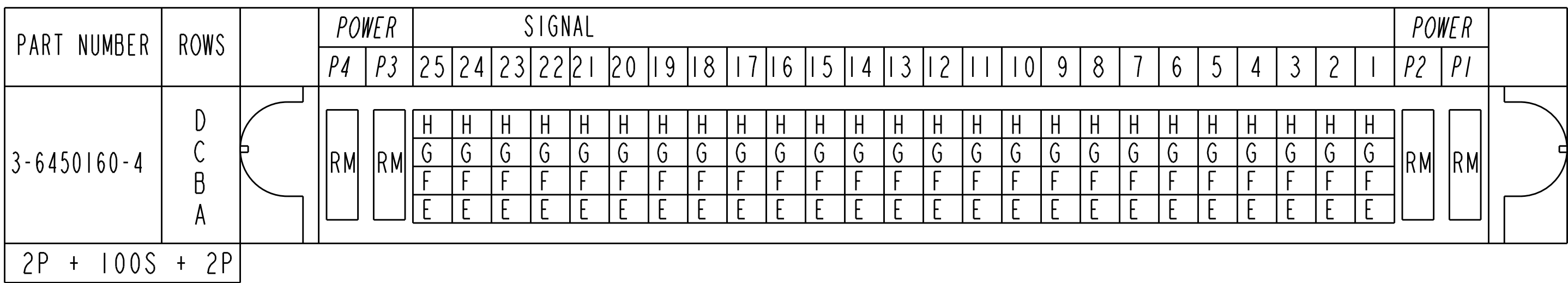
PART NUMBER	ROWS		POWER					SIGNAL							POWER								
			P12	P11	P10	P9		6	5	4	3	2	1	P8	P7	P6	P5	P4	P3	P2	P1		
3-6450160-0	D C B A							H	H	H	H	H	H										
								G	G	G	G	G	G										
								F	F	F	F	F	F										
								E	E	E	E	E	E										
8P + 24S + 1M + 4ACP																							



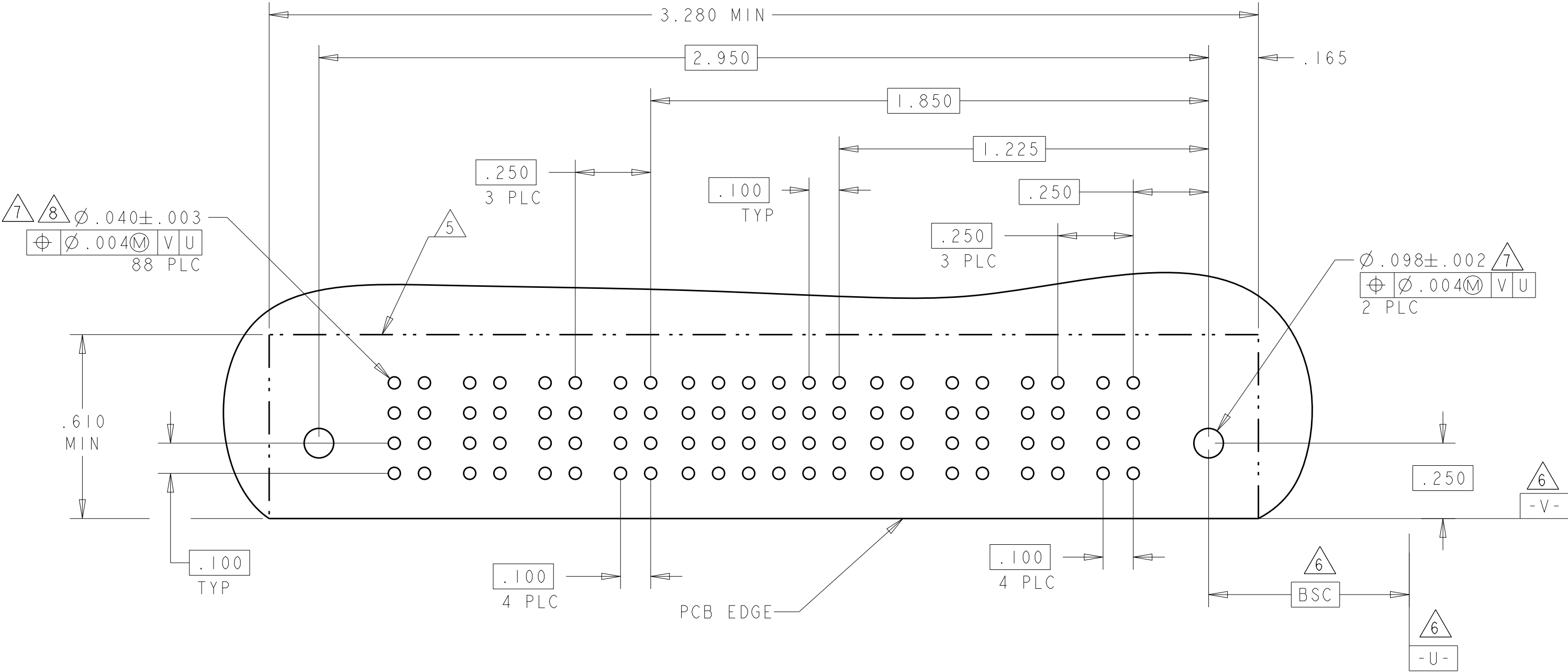
PART NUMBER	HOUSING P/N	ROWS		POWER			SIGNAL						POWER				
				P7	P6	P5	6	5	4	3	2	1	P4	P3	P2	P1	
3-6450160-2	3-1450190-2	D C B A		RM	RM	RM	H	H	H	H	H	H	RM	RM	RM	RM	
							G	G	G	G	G	G					
							F	F	F	F	F	F					
							E	E	E	E	E	E					
4P + 24S + 3ACP																	



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R. GRZYBOWSKI	21FEB05	TE Connectivity			
DIMENSIONS: INCHES		CHK M. PERCHERKE	21FEB05				
		APVD M. PERCHERKE	21FEB05	NAME RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL			
		PRODUCT SPEC 108-1973		APPLICATION SPEC 114-13038			
MATERIAL		FINISH		SIZE A1	CAGE CODE 100779	DRAWING NO. C=6450160	RESTRICTED TO -
				WEIGHT -	Customer Drawing		SCALE 3:1
						SHEET 7 OF 16	
						REV G1	

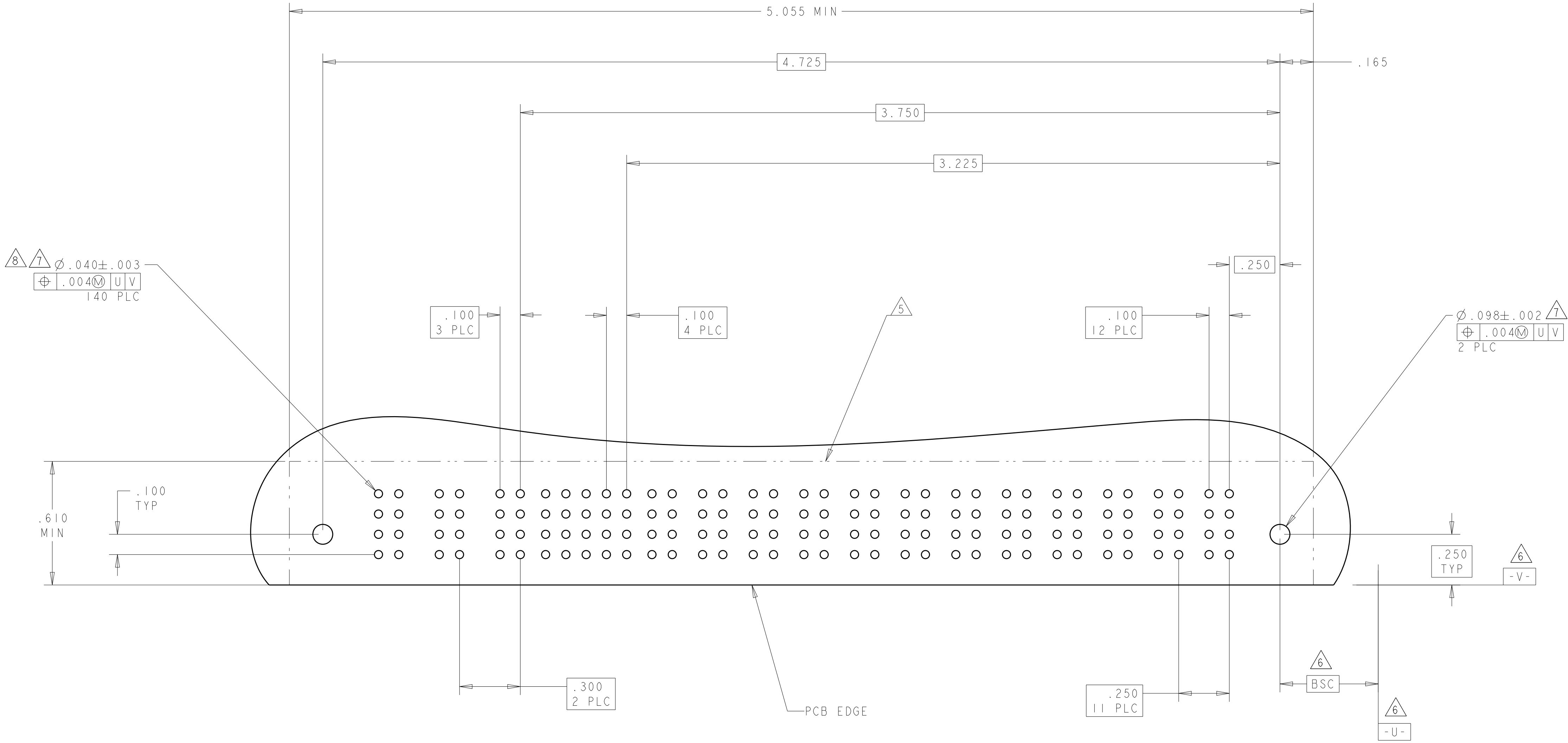


PART NUMBER	ROWS		POWER				SIGNAL					POWER				
			P8	P7	P6	P5	6	5	4	3	2	1	P4	P3	P2	
3-6450160-7	D C B A	HD														HD
4P + 24S + 4P																

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

PART NUMBER	ROWS		AC POWER			SIGNAL					POWER												
			P15	P14	P13	5	4	3	2	1	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	
1-6450160-8	D C B A		RA	RA	RA	H	H	H	H	H	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	
						G	G	G	G	G													
						F	F	F	F	F													
						E	E	E	E	E													
12P + 20S + 3ACP																							



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DWN

R. GRZYBOWSKI

21FEB05

CHK

M. PERCHERKE

21FEB05

APVD

M. PERCHERKE

21FEB05

DIMENSIONS:

INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±.01

1 PLC ±.01

2 PLC ±.01

3 PLC ±.005

4 PLC ±.002

ANGLES #2°

FINISH

MATERIAL

NAME

RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE

A1

CAGE CODE

100779

DRAWING NO

C=6450160

RESTRICTED TO

-

Customer Drawing

SCALE 3:1

SHEET 10 OF 16

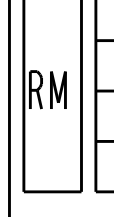
REV G1

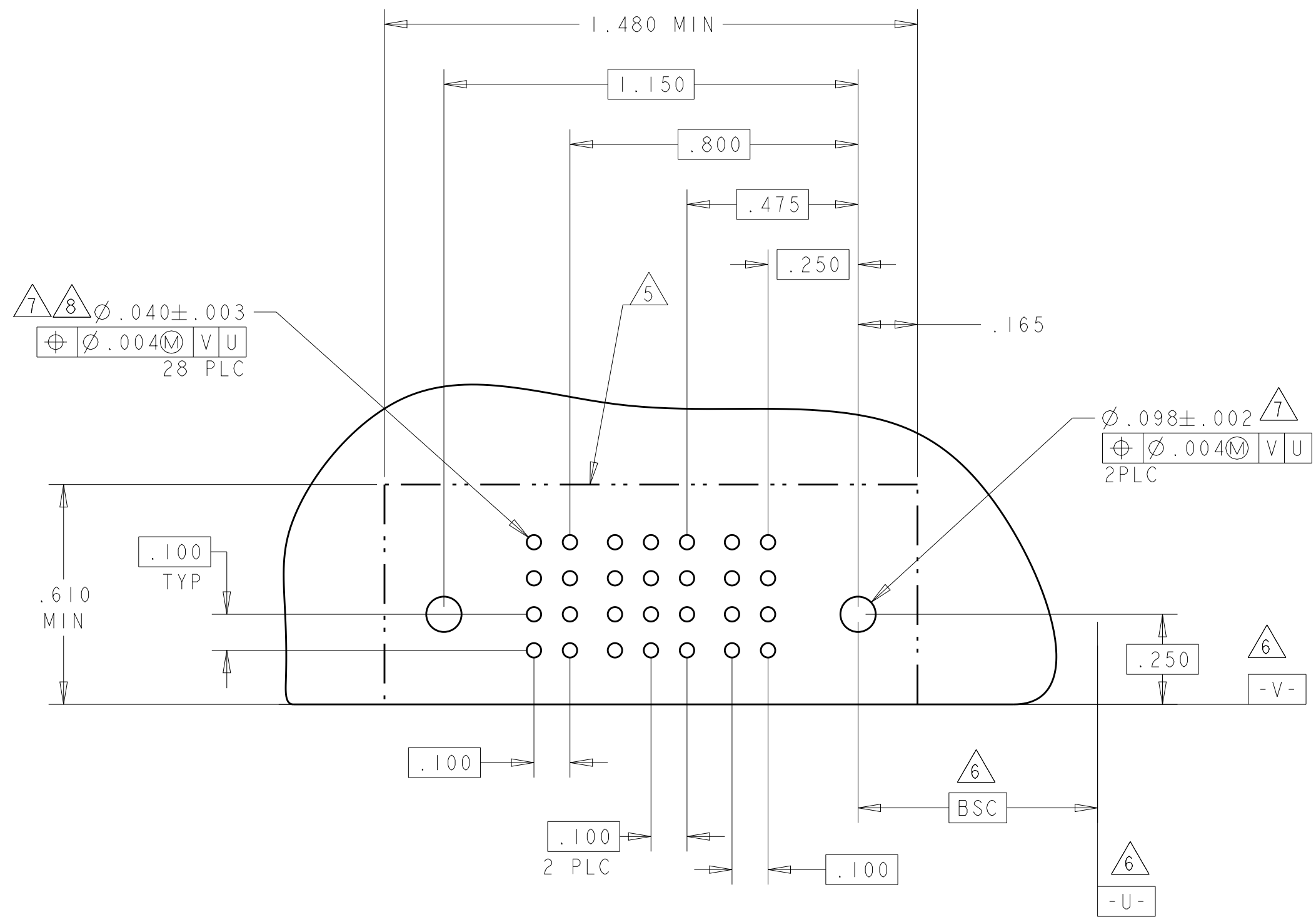
TE Connectivity

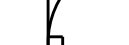
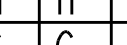
4805 (3/11)

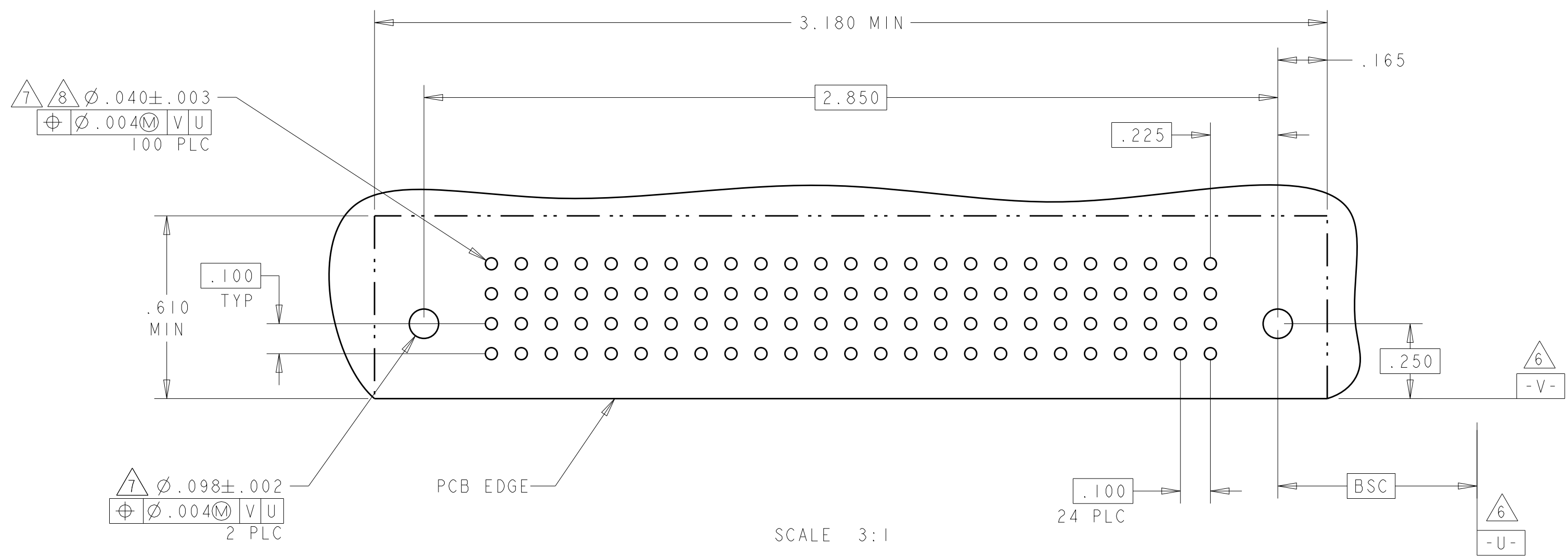
D5

4805 (3/11)

PART NUMBER	ROWS		POWER SIGNAL				POWER	
			P2	3	2	1	P1	
4-6450160-1	D C B A			H	H	H		
				G	G	G		
				F	F	F		
				E	E	E		
IP + 12S + IP								

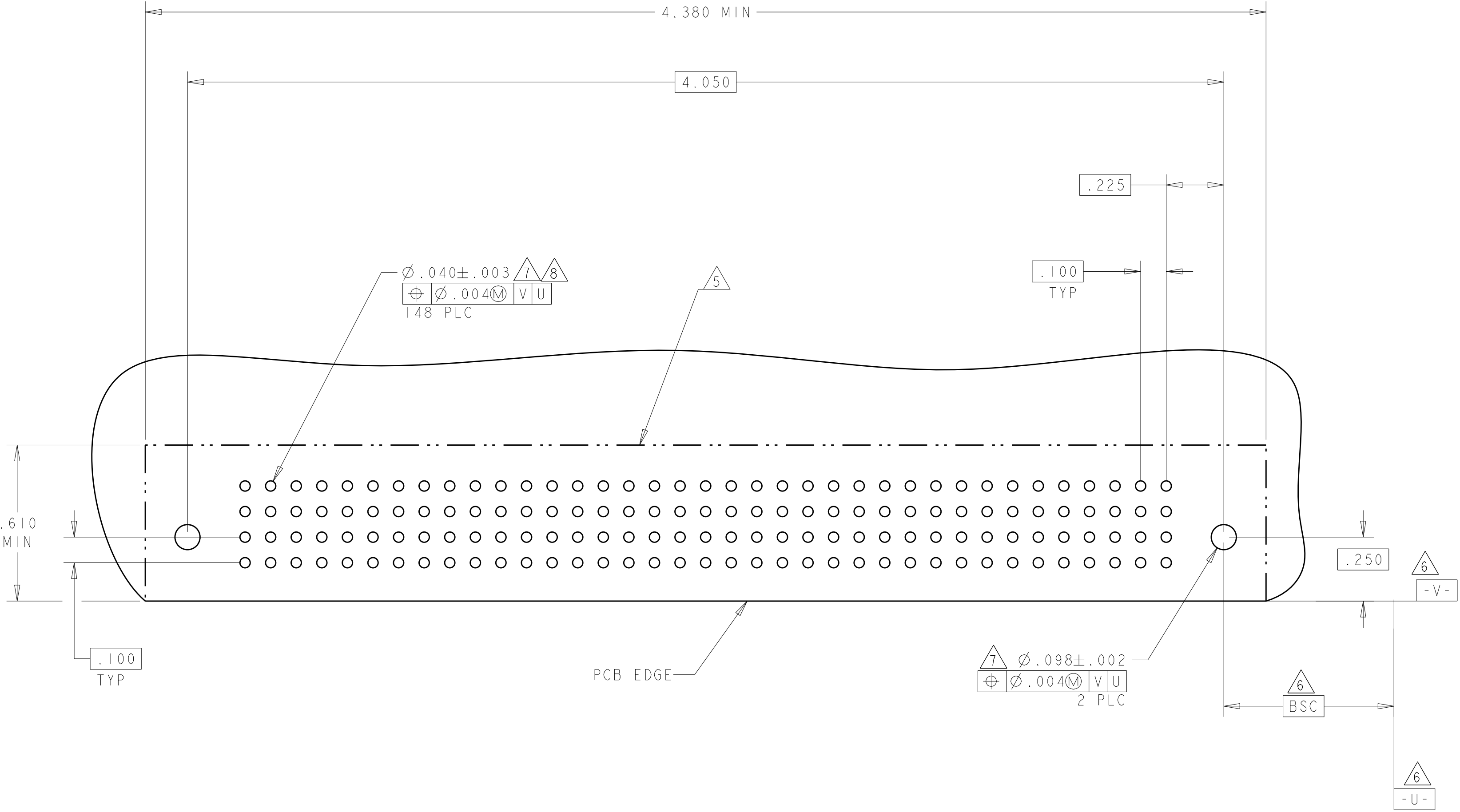
4805 (3/11)

PART NUMBER	ROWS		SIGNAL																									
			25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2		1
4-6450160-4	D		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H		
	G		G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G		
	F		F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		F
	E		E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		E
100S																												

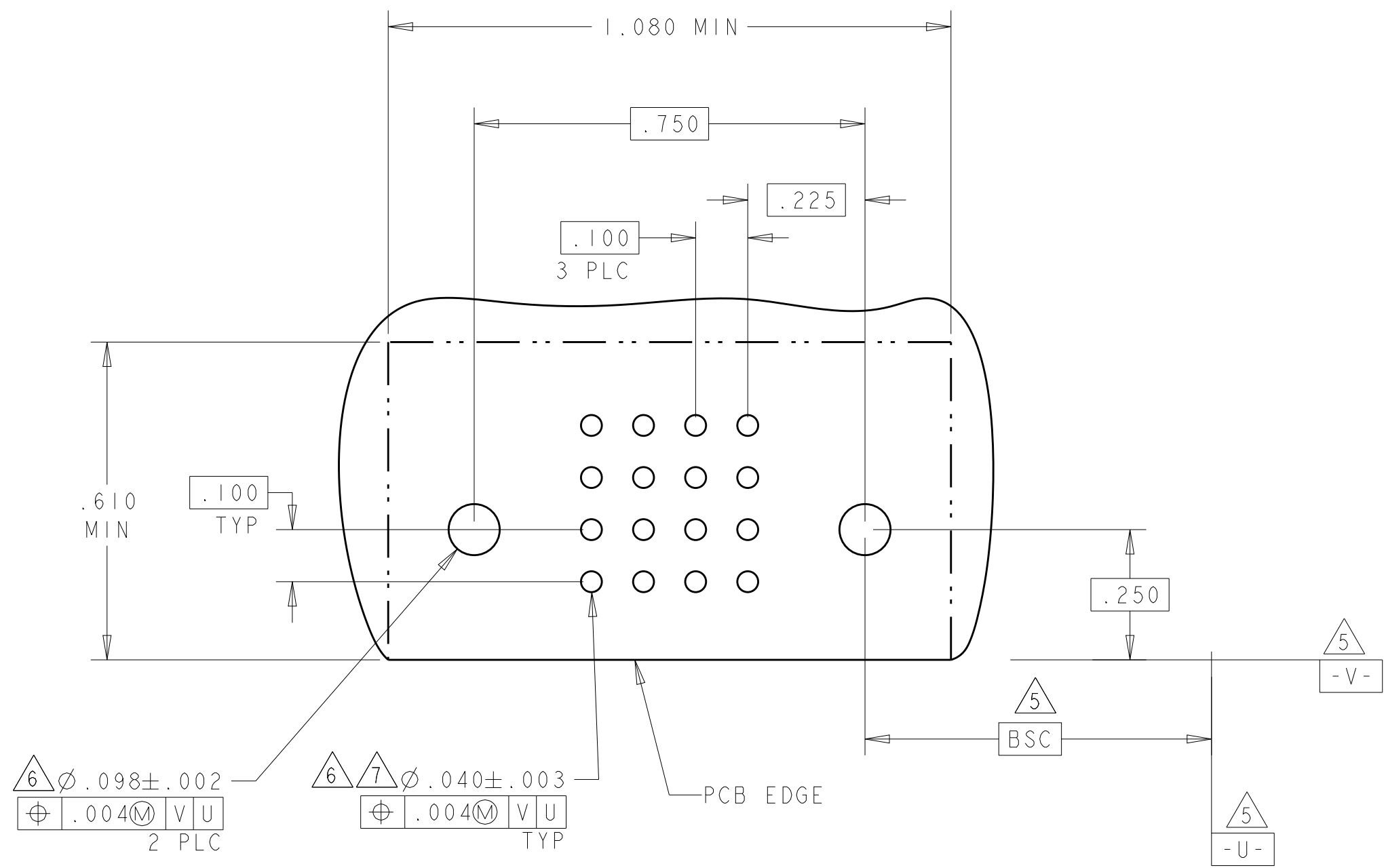


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R. GRZYBOWSKI 21FEB05		 TE Connectivity	
DIMENSIONS: INCHES		CHW M. PERCHERKE 21FEB05 APVD M. PERCHERKE 21FEB05 PRODUCT SPEC 108-1973 APPLICATION SPEC 114-13038			
TOLERANCES UNLESS OTHERWISE SPECIFIED: 		NAME RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL		RESTRICTED TO	
0 P/LC ±. 1 P/LC ±. 2 P/LC ±.01 3 P/LC ±.005 4 P/LC ±.002 ANGLES ±°		WEIGHT - Customer Drawing		SIZE CAGE CODE DRAWING NO. 00779 ©6450160 SCALE 3:1 SHEET 14 OF 16 REV G1	
MATERIAL		FINISH			

PART NUMBER	ROWS		SIGNAL																																			
			37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6		5	4	3
4-6450160-6	D		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
	C		G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
	B		F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
	A	HD	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
148S																																						

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PART NUMBER	ROWS		SIGNAL				
			4	3	2	1	
4-6450160-9	D		H	H	H	H	
	C		G	G	G	G	
	B		F	F	F	F	
	A		E	E	E	E	
16S		HD					HD

4805 (3/11)