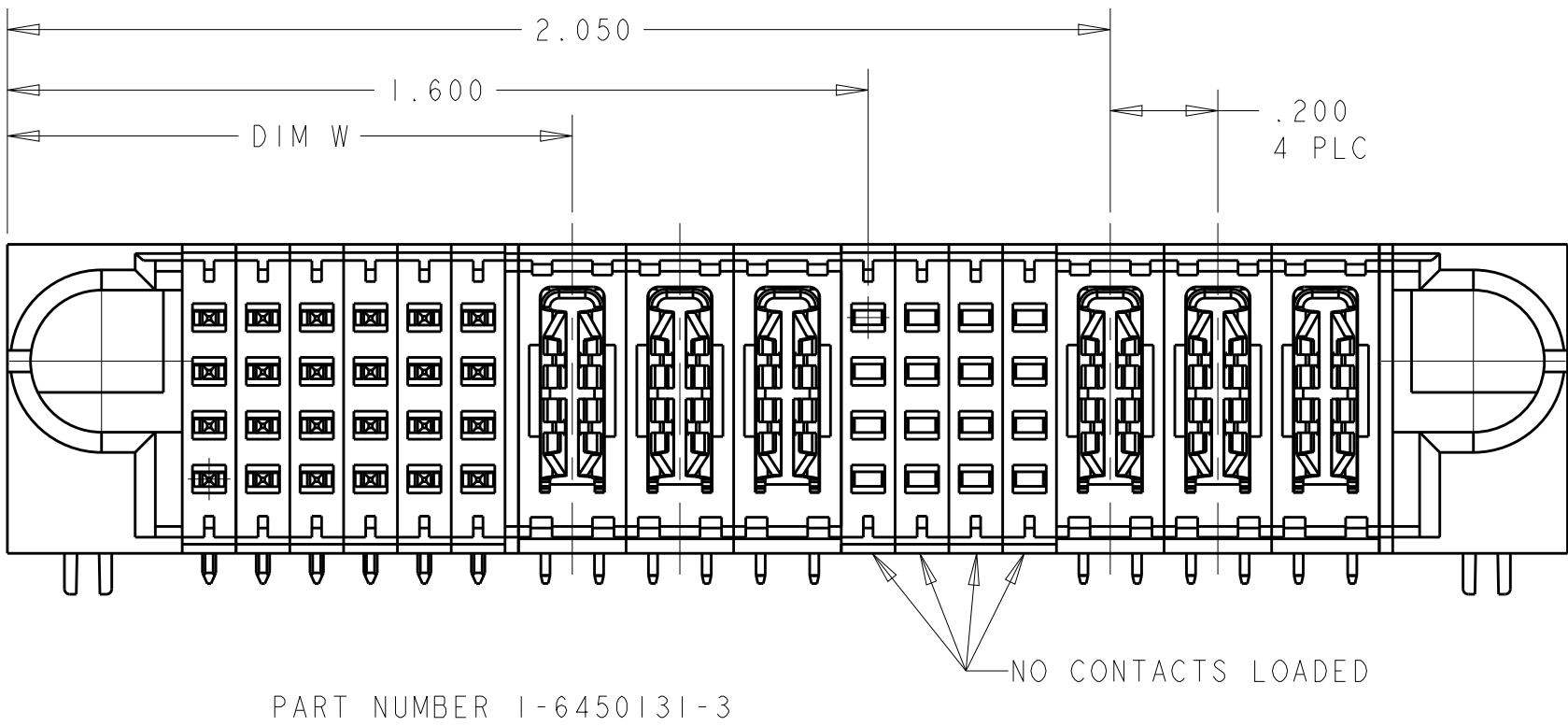
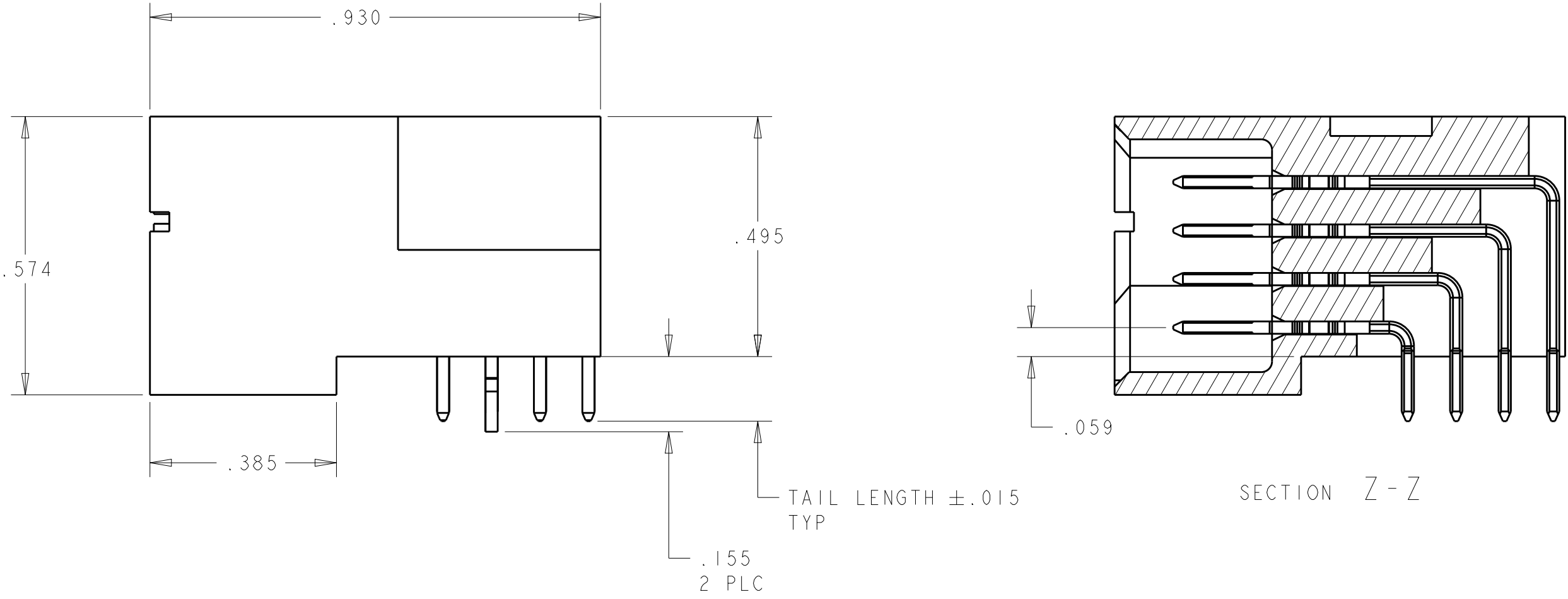
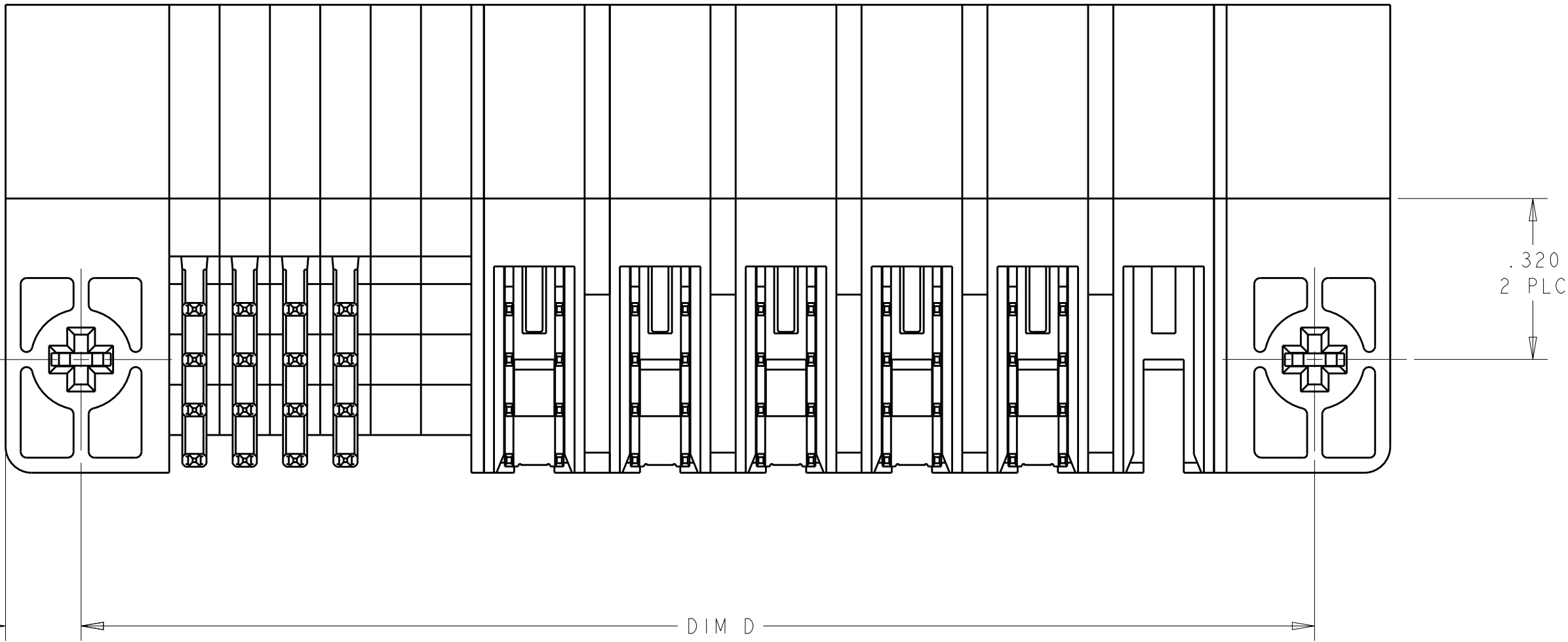
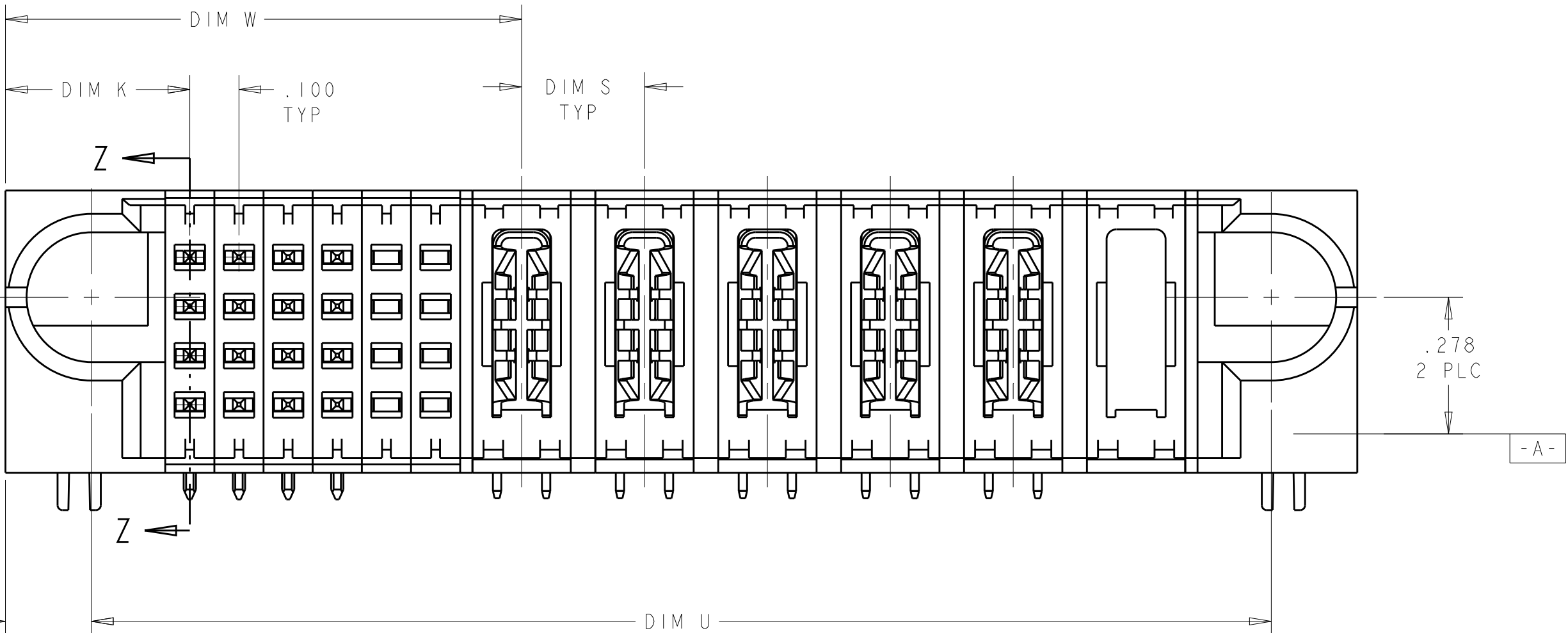
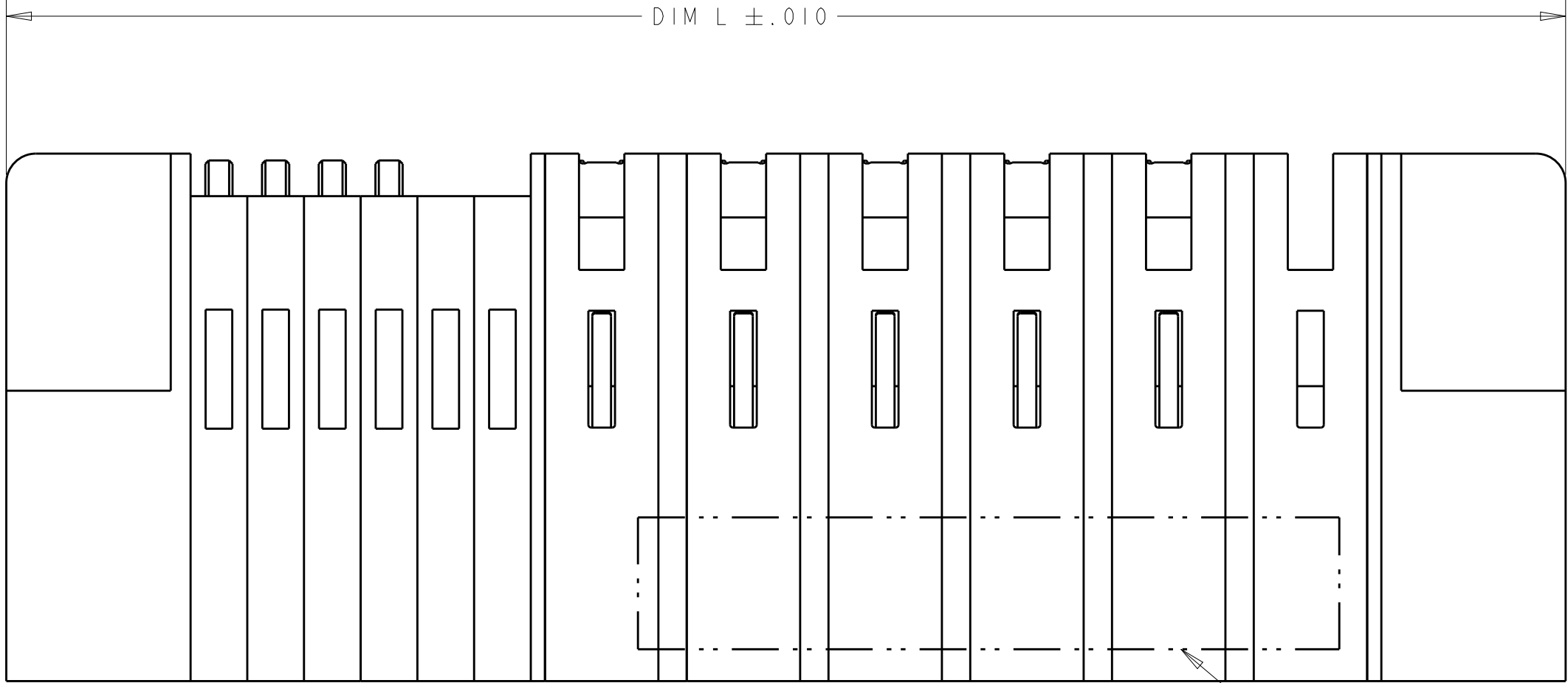


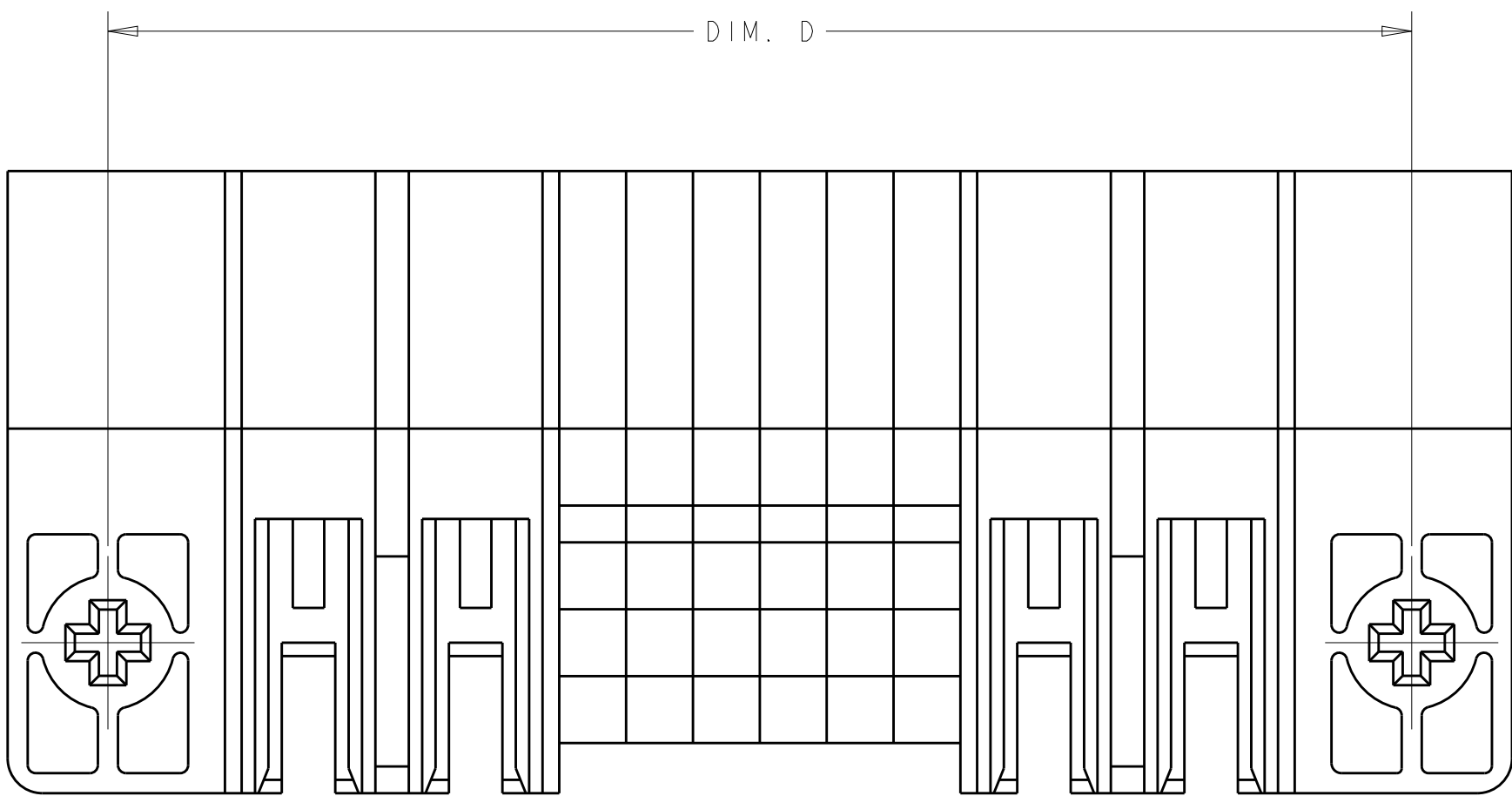
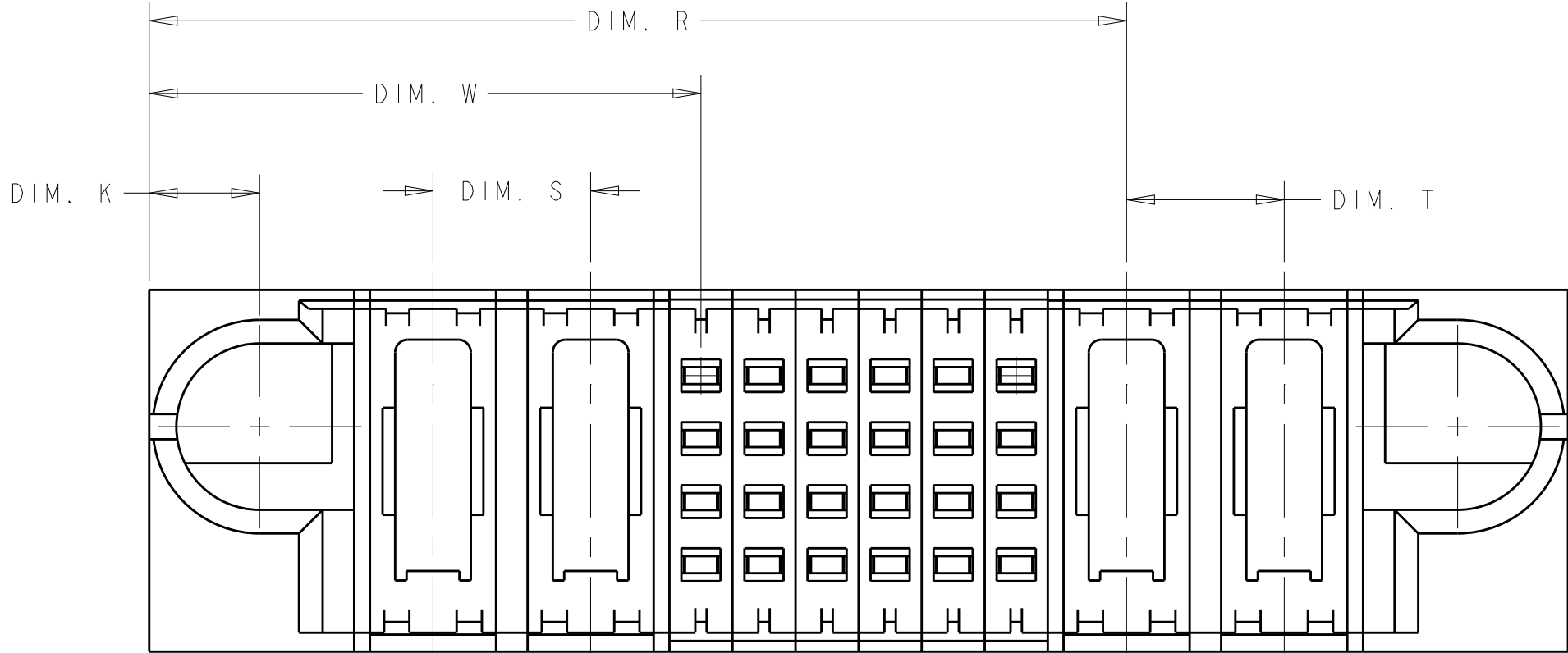
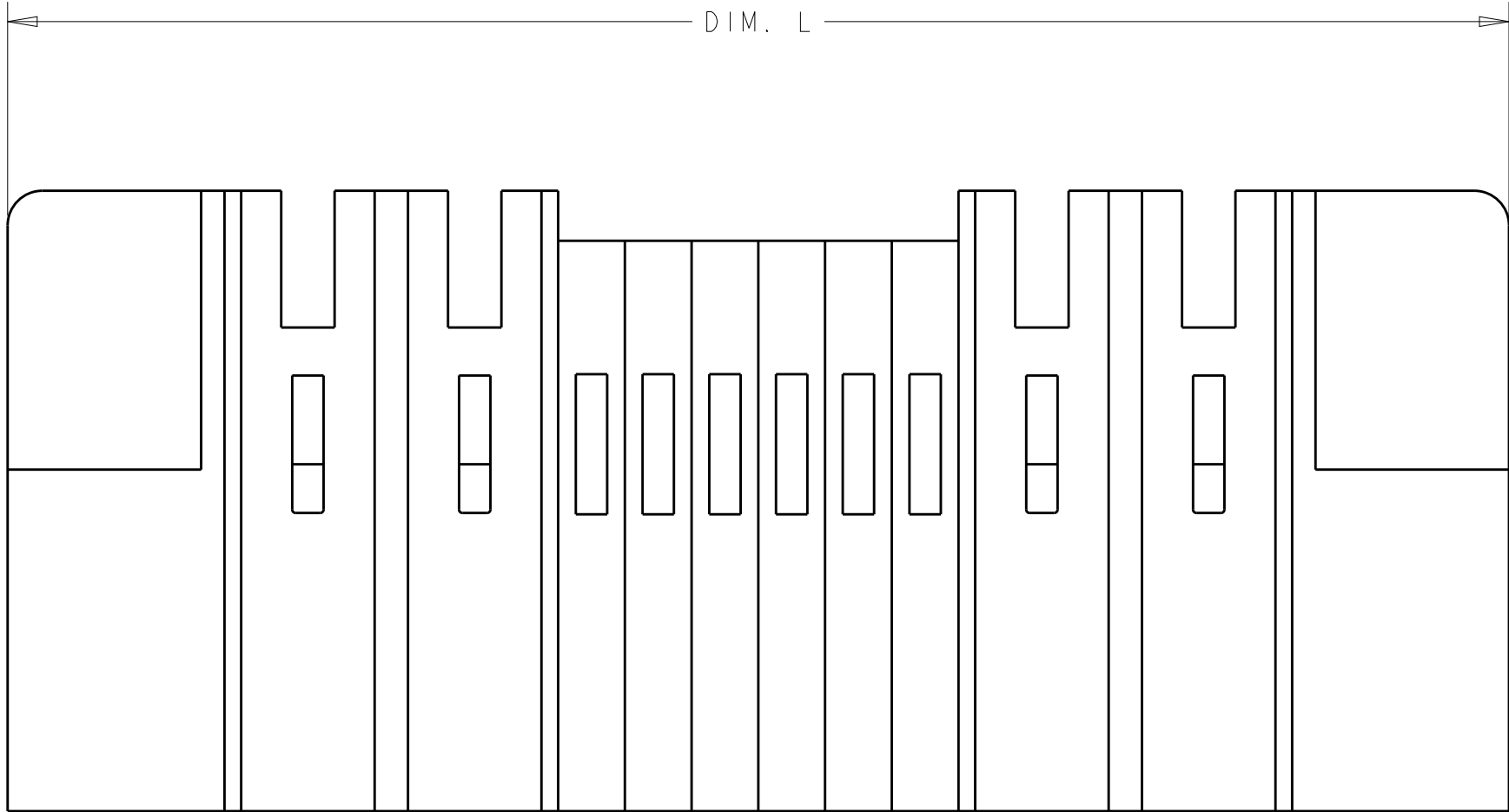
LOC		DIST		REVISIONS				
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD	
		E8		REV PER ECR-12-021802	04JAN2013	ML	SZ	
		E9		ADD NEW DASH NUMBER 2-3	21MAY2013	CZ	SZ	



PART NUMBER 1-6450131-3

- 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 - COPPER ALLOY
POWER CONTACT - HIGH CONDUCTIVITY COPPER ALLOY
- 3 CONTACT PLATING: NOBLE METAL PLATING ON CONTACT FUNCTIONAL AREA OF POWER CONTACTS 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 CU PLATING TO ACHIEVE A .040±.003 DIA HOLE

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



PART 2-6450131-1
(NO CONTACT VIEW)

E9	-	-	4.650	.250	.400	4.700	1.800	5.000	52S + 12P	2-6450131-3
	-	-	1.700	.250	.375	1.750	.850	2.050	16S + 4P	2-6450131-2
	1.550	.250	1.900	.250	.450	1.950	.875	2.250	24S	2-6450131-1
			1.600	.250	.375	1.650	.750	1.950	12S + 4P	1-6450131-9
			3.650	.250	.400	3.700	1.300	4.000	32S + 10P	1-6450131-8
			2.950	.200	.375	3.000	1.050	3.300	24S + 10HDP	1-6450131-7
			2.400	.250	.375	2.450	1.050	2.750	24S + 6P	1-6450131-6
			2.450	.200	.375	2.500	.950	2.800	20S + 8P	1-6450131-5
			2.400	.250	.375	2.450	1.050	2.750	24S + 6P	1-6450131-4
			2.550	.200	.375	2.600	1.050	2.900	24S + 3P + 16S + 3P	1-6450131-3
			2.500	.250	.425	2.550	.875	2.850	12S + 7P	1-6450131-1
			2.400	.250	.375	2.450	1.050	2.750	24S + 6P	6450131-7
			2.700	.300	.375	2.750	.775	3.050	12S + 7ACP	6450131-6
			2.400	.250	.375	2.450	1.050	2.750	24S + 6P	6450131-5
			4.400	.250	.375	4.450	1.050	4.750	24S + 14P	6450131-4
			1.950	.250	.375	2.000	.850	2.300	16S + 5P	6450131-3
	DIM R	DIM T	DIM U	DIM S	DIM K	DIM D	DIM W	DIM L	DESCRIPTION	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

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

-

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

15FEB05
15FEB05

NAME

PRODUCT SPEC
108-1973
APPLICATION SPEC
114-13038

WEIGHT

-

CUSTOMER DRAWING

TE Connectivity

RIGHT ANGLE HEADER ASSY
SOLDER CONTACTS, W/GUIDES
MULTI-BEAM XL

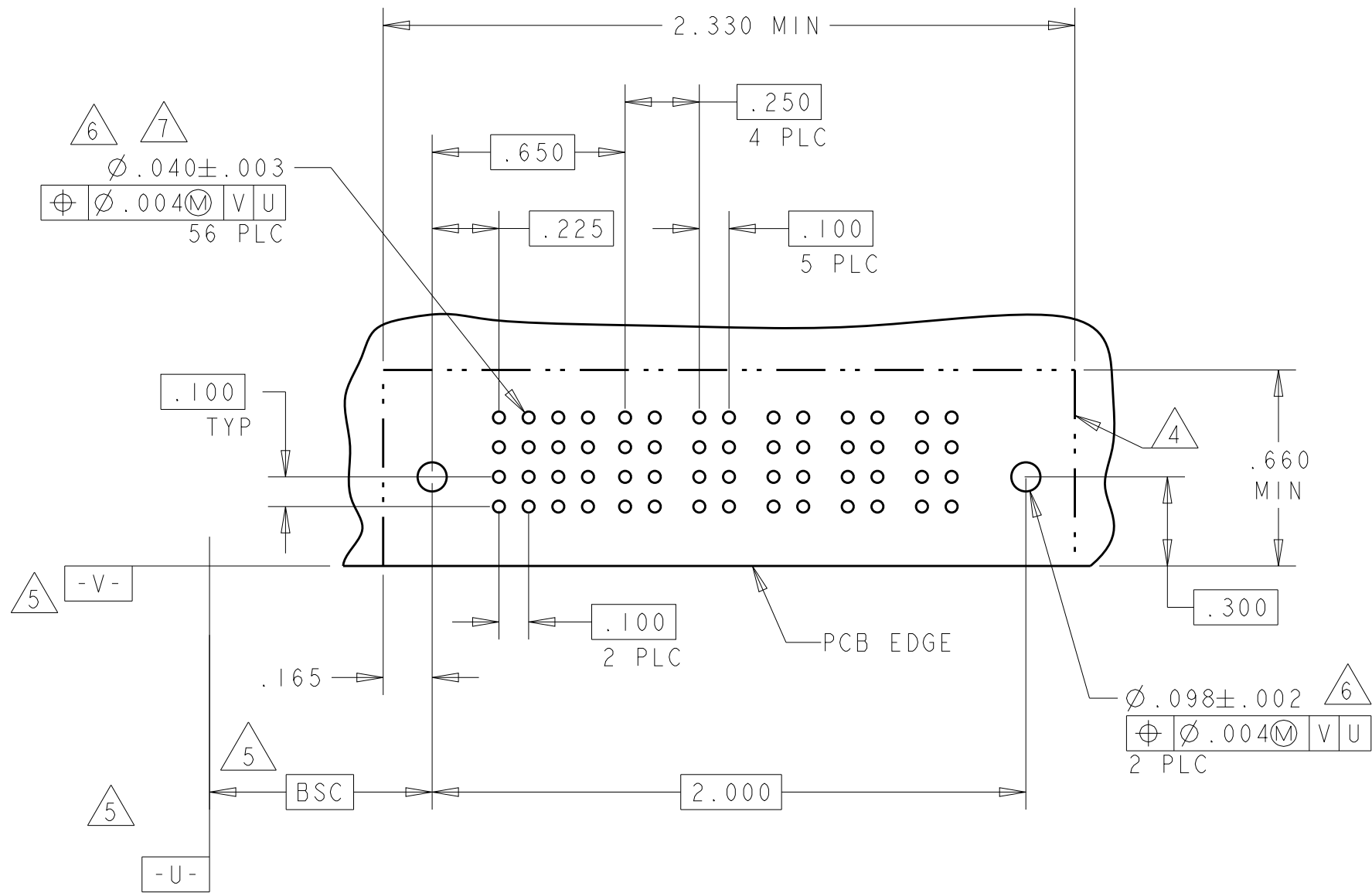
SIZE A1
CAGE CODE 00779
DRAWING NO. 6450131

RESTRICTED TO

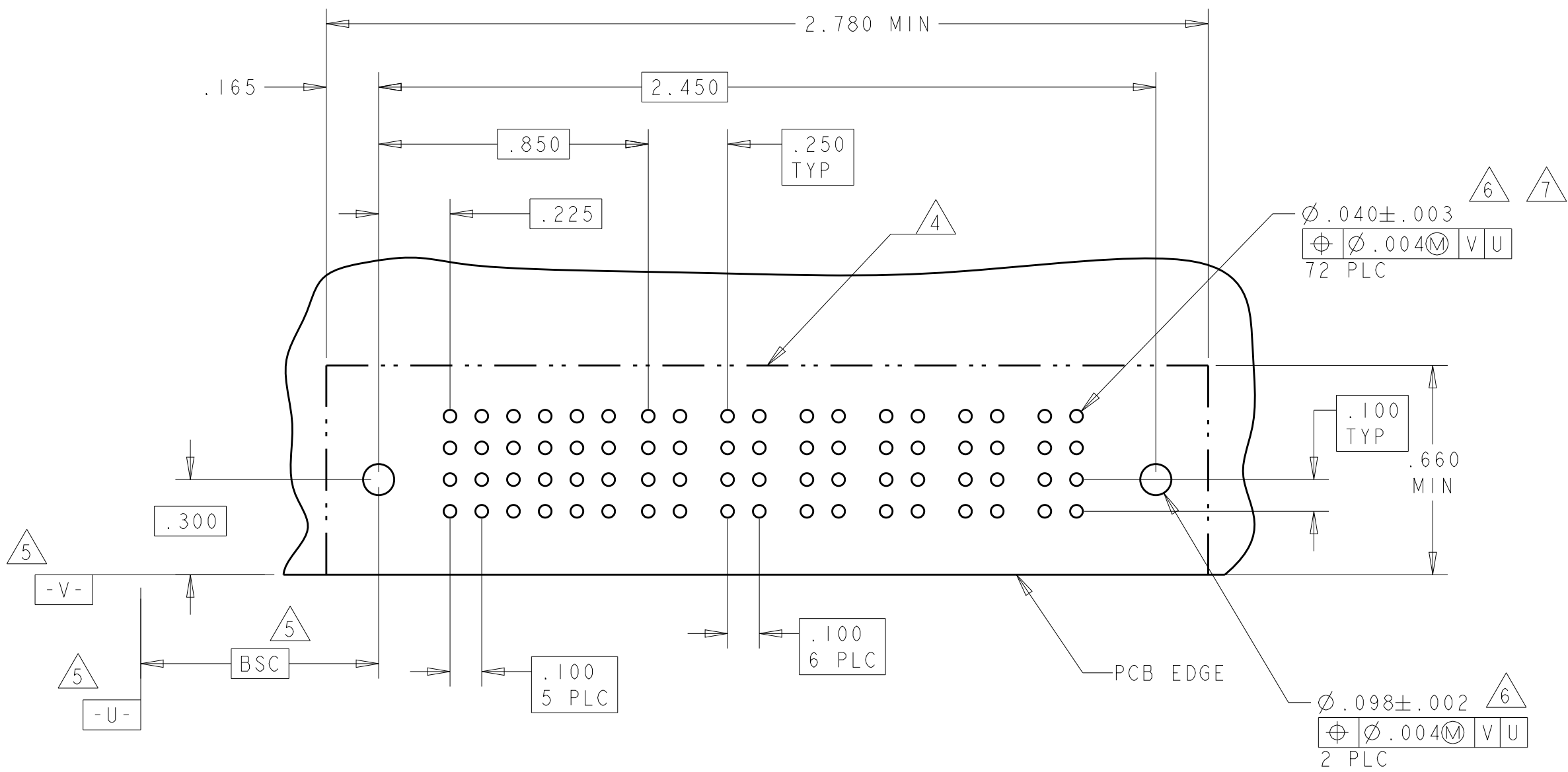
SCALE 1:1
SHEET 2 OF 9
REV E9

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

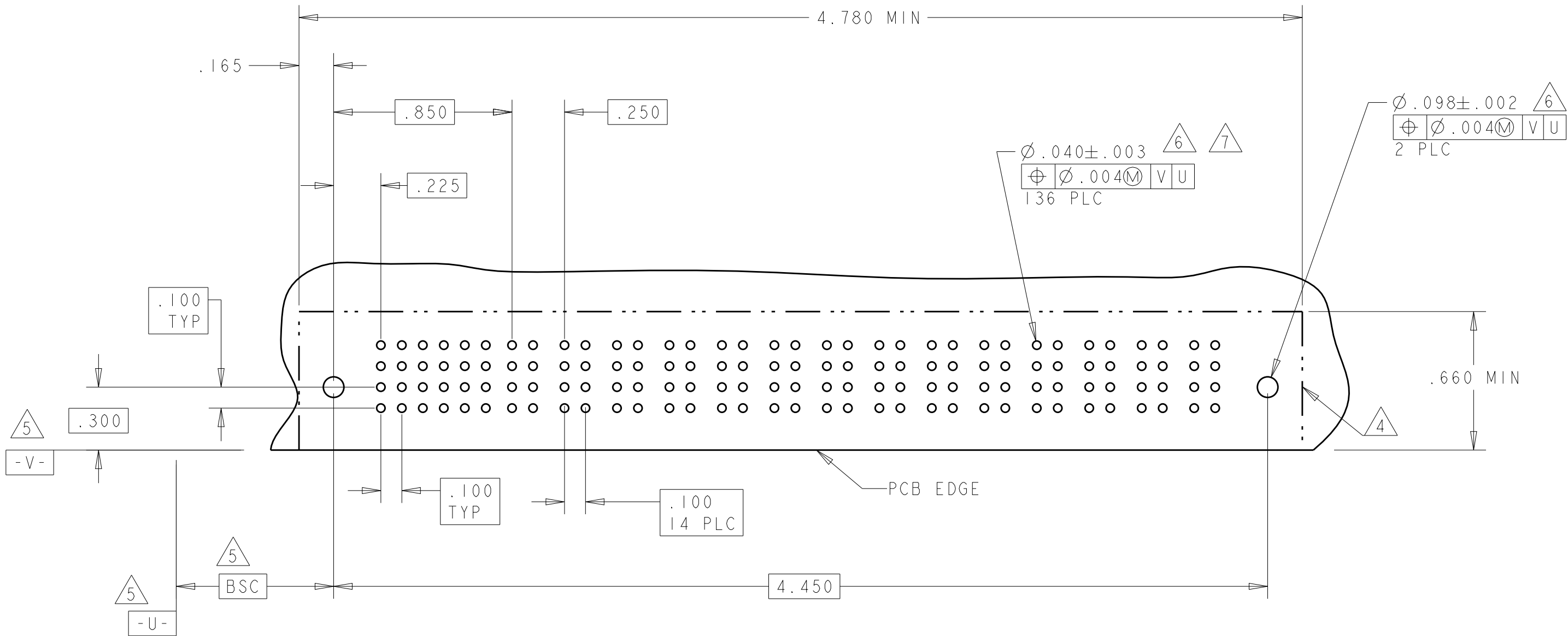
PART NUMBER	ROWS		SIGNAL				POWER					
			I	2	3	4	P1	P2	P3	P4	P5	
6450131-3	D C B A		J	J	J	J	PM	PM	PM	PM	PM	
			K	K	K	K						
			N	N	N	N						
			S	S	S	H						
16S + 5P												



PART NUMBER	ROWS		SIGNAL						POWER						
			I	2	3	4	5	6	P1	P2	P3	P4	P5	P6	
6450131-5	D C B A		J	J	J	J	J	E	PM	PM	PM	PM	PM	PM	
			K	K	K	K	K	K							
			N	N	N	N	N	N							
			H	S	S	S	S	S							
24S + 6P															



PART NUMBER	ROWS		SIGNAL						POWER															
			1	2	3	4	5	6	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14		
6450131-4	D C B A		J	J	J	J	J	J	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM		
			K	K	K	K	K	K																
			N	N	N	N	N	N																N
			S	S	H	H	S	S																
24S + 14P																								



PA	.090
PM	.135
CODE	TAIL LENGTH
POWER CONTACT	

Z	STD	.090	D
Y	STD	.090	C
R	STD	.090	B
O	STD	.090	A
A4	MLBF	.090	D
A3	MLBF	.090	C
A2	MLBF	.090	B
A1	MLBF	.090	A
E	MLBF	.135	D
F	MLBF	.135	C
G	MLBF	.135	B
H	MLBF	.135	A
FJ	MFBF	.135	D
J	STD	.135	D
K	STD	.135	C
N	STD	.135	B
S	STD	.135	A

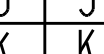
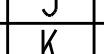
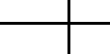
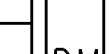
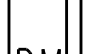
CODE	MATING SEQUENCE	TAIL LENGTH	ROW
SIGNAL CONTACT			

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R. GRZYBOWSKI	15FEB05	 TE Connectivity	
DIMENSIONS: INCHES		CHK M. PERCHERKE	15FEB05		
		APVD M. PERCHERKE		RIGHT ANGLE HEADER ASSY	
		PRODUCT SPEC		SOLDER CONTACTS, W/GUIDES	
		108-1973		MULTI-BEAM XL	
		APPLICATION SPEC			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		114-13038		SIZE	
0 PLC ±.01		WEIGHT		CAGE CODE	
1 PLC ±.01		-		DRAWING NO	
2 PLC ±.01		CUSTOMER DRAWING		RESTRICTED TO	
3 PLC ±.005		SCALE		-	
4 PLC ±.0020		1:1		9	
ANGLES ±.020		SHEET		3 OF	
FINISH		REV		E9	
-		CAGE CODE		00779	
-		DRAWING NO		C6450131	

PART NUMBER	ROWS		SIGNAL			POWER											
			1	2	3	P1	P2	P3	P4	P5	P6	P7					
1-6450131-1	D C B A		J	J	J	PM		PM		PM		PM		PM		PM	
			K	K	K												
			N	N	N												
			S	S	S												
12S + 7P																	

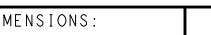
This mechanical drawing illustrates the layout of a PCB, detailing dimensions, tolerances, and material specifications. The drawing includes the following features:

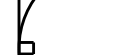
- Overall Dimensions:**
 - Length: 2.880 MIN
 - Width: .660 MIN
- Internal Dimensions and Tolerances:**
 - Top edge: .675, .275, .500 (3 PLC)
 - Bottom edge: .300, .100 (TYP), .100 (4 PLC)
 - Right edge: .100 (TYP)
- Material and Surface Finish Specifications:**
 - Top surface: $\phi .098 \pm .002$ (2 PLC)
 - Bottom surface: $\phi .004 \text{ M}$ (2 PLC)
 - Internal features: $\phi .040 \pm .003$ (6, 7), $\phi .004 \text{ M}$ (44 PLC), V, U, 5
- Other Features:**
 - PCB EDGE
 - PCB MATERIAL: BSC
 - PCB FINISH: -V-, -U-

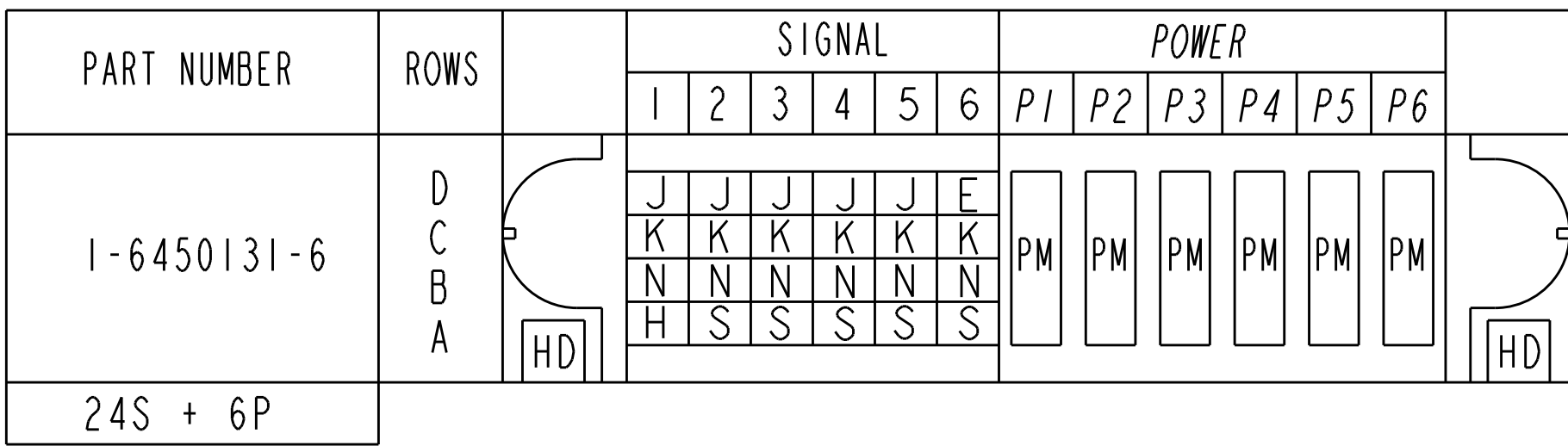
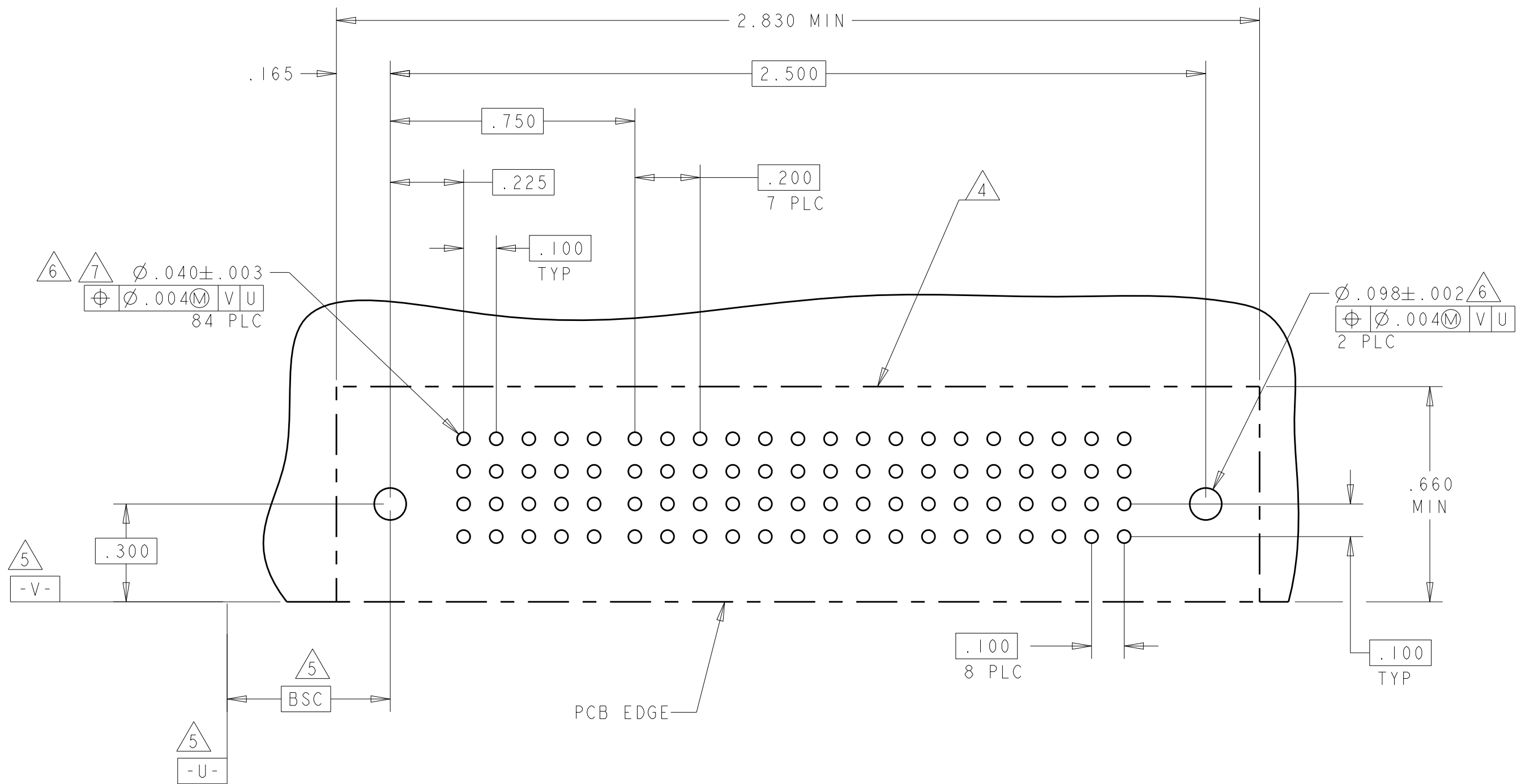
PART NUMBER	ROWS		SIGNAL						POWER			SIGNAL				POWER										
			1	2	3	4	5	6	P1	P2	P3	7	8	9	10	P4	P5	P6								
1-6450131-3	D		J	J	J	J	J	E																		
	K		K	K	K	K	K	PM										PM	PM					PM	PM	PM
	N		N	N	N	N	N																			
	H		S	S	S	S	S																			
24S + 3P + 16S + 3P			NO CONTACTS LOADED																							

The drawing is a mechanical layout of a PCB. It features a central rectangular area with a rounded right side, containing a grid of 40 circular holes (4 rows by 10 columns). The overall dimensions are 2.930 MIN in width and .660 MIN in height. Key dimensions and tolerances include:

- Top width: 2.930 MIN
- Top hole spacing: 1.850, .850, .200 (2 PLC), .225
- Right side hole spacing: .200 (2 PLC), .098 ± .002 (2 PLC), .004 (V|U)
- Bottom hole spacing: .100 (3 PLC), .100 (5 PLC), .100 (3 PLC)
- Left side hole spacing: .300
- Material specifications: 6, 7, 5, -V-, -U-, BSC, .040 ± .003, .004 (V|U) 72 PLC, .098 ± .002 (2 PLC), .004 (V|U), .100 TYP
- Labels: PCB EDGE, 2.930 MIN, .660 MIN, 1.850, .850, .200 2 PLC, .225, .300, .100 5 PLC, .100 3 PLC, .100 3 PLC, BSC, .040 ± .003, .004 (V|U) 72 PLC, .098 ± .002 (2 PLC), .004 (V|U), .100 TYP

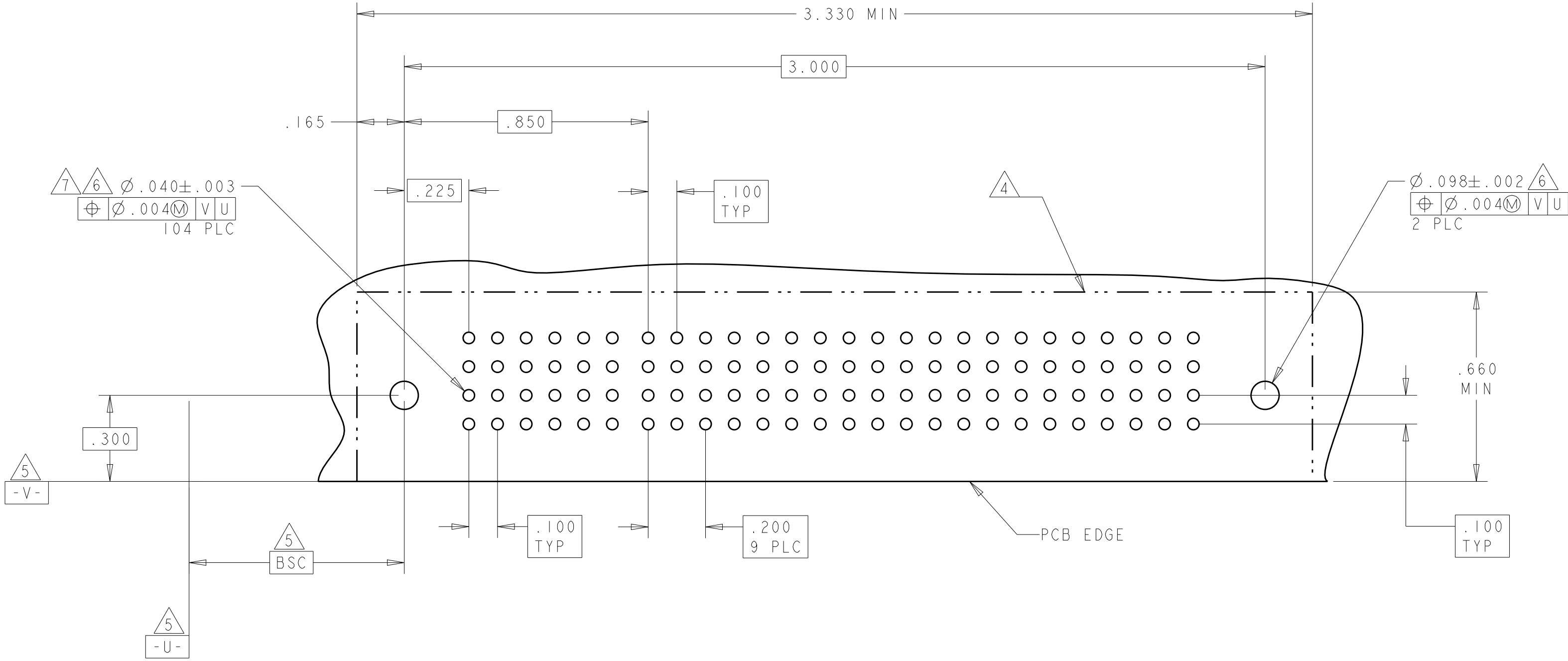
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWA R. GRZYBOWSKI		15FEB05	 TE Connectivity	
		CHP M. PERCHERKE		15FEB05		
DIMENSIONS: INCHES		TOLERANCES, UNLESS OTHERWISE SPECIFIED:		NAME		
		0 PLOC ±.1		RIGHT ANGLE PERCHERKE ASSY SOLDER CONTACTS, W/GUIDES MULTI-BEAM XL		
		1 PLOC ±.1				
		2 PLOC ±.1				
		3 PLOC ±.005				
4 PLOC ±.0020		PRODUCT SPEC		SIZE CASE CODE DRAWING NO		
ANGLES ±.2°		108-1973				
FINISH		APPLICATION SPEC		RESTRICTED TO		
		114-13038				
MATERIAL		WEIGHT		A1 100779 C-6450131		
-		-		-		
		CUSTOMER DRAWING		SCALE 1:1 SHEET 4 OF 9 REV E		

PART NUMBER	ROWS		SIGNAL					POWER								
			1	2	3	4	5	P1	P2	P3	P4	P5	P6	P7	P8	
1-6450131-5	D C B A		J	J	J	J	J									
			K	K	K	K	K									
			N	G	N	N	N									
			S	S	S	S	S									
20S + 8P																

4805 (3/11)

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

PART NUMBER	ROWS		SIGNAL						POWER										
			1	2	3	4	5	6	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	
I-6450131-7	D C B A		J	J	J	J	J	J	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	
			K	K	K	F	K	K											
			N	N	N	N	N	N											
			S	S	S	S	S	S											
24S + 10HDP																			HD



THIS DRAWING IS A CONTROLLED DOCUMENT.

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

DIMENSIONS:
INCHES

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

MATERIAL: -

15FEB05
15FEB05

NAME: -

PRODUCT SPEC: 108-1973

APPLICATION SPEC: 114-13038

WEIGHT: -

CUSTOMER DRAWING

RIGHT ANGLE HEADER ASSY
SOLDER CONTACTS, W/GUIDES
MULTI-BEAM XL

SIZE: A1
CAGE CODE: 100779
DRAWING NO: 6450131

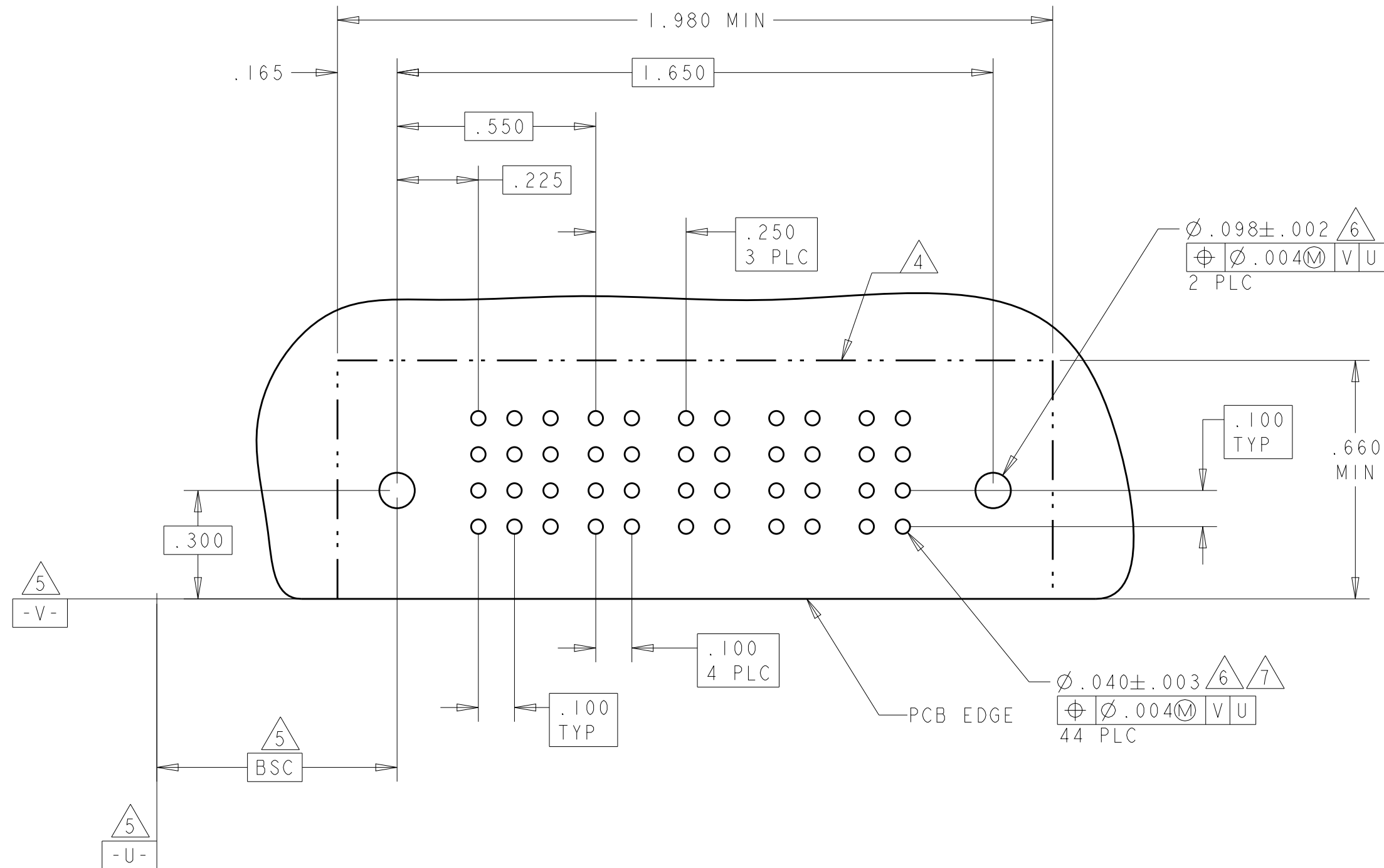
RESTRICTED TO: -

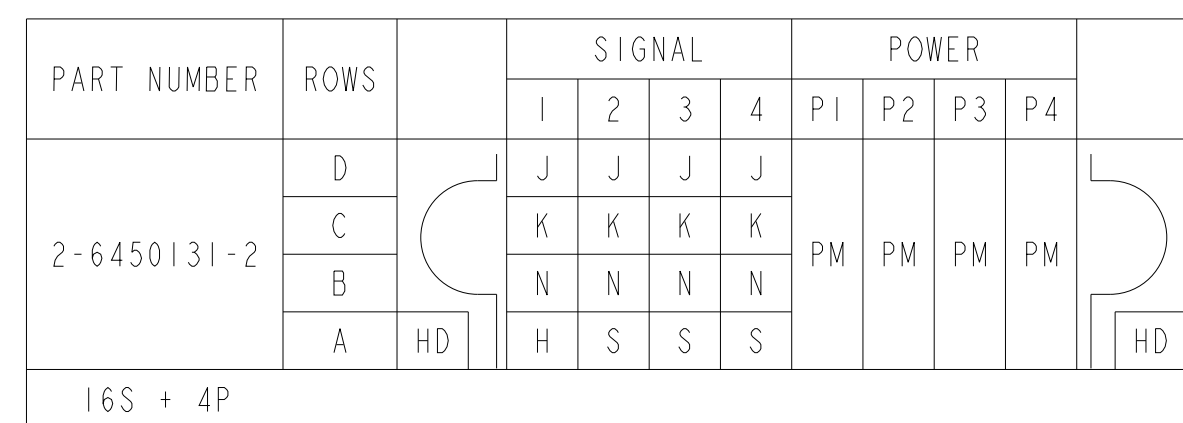
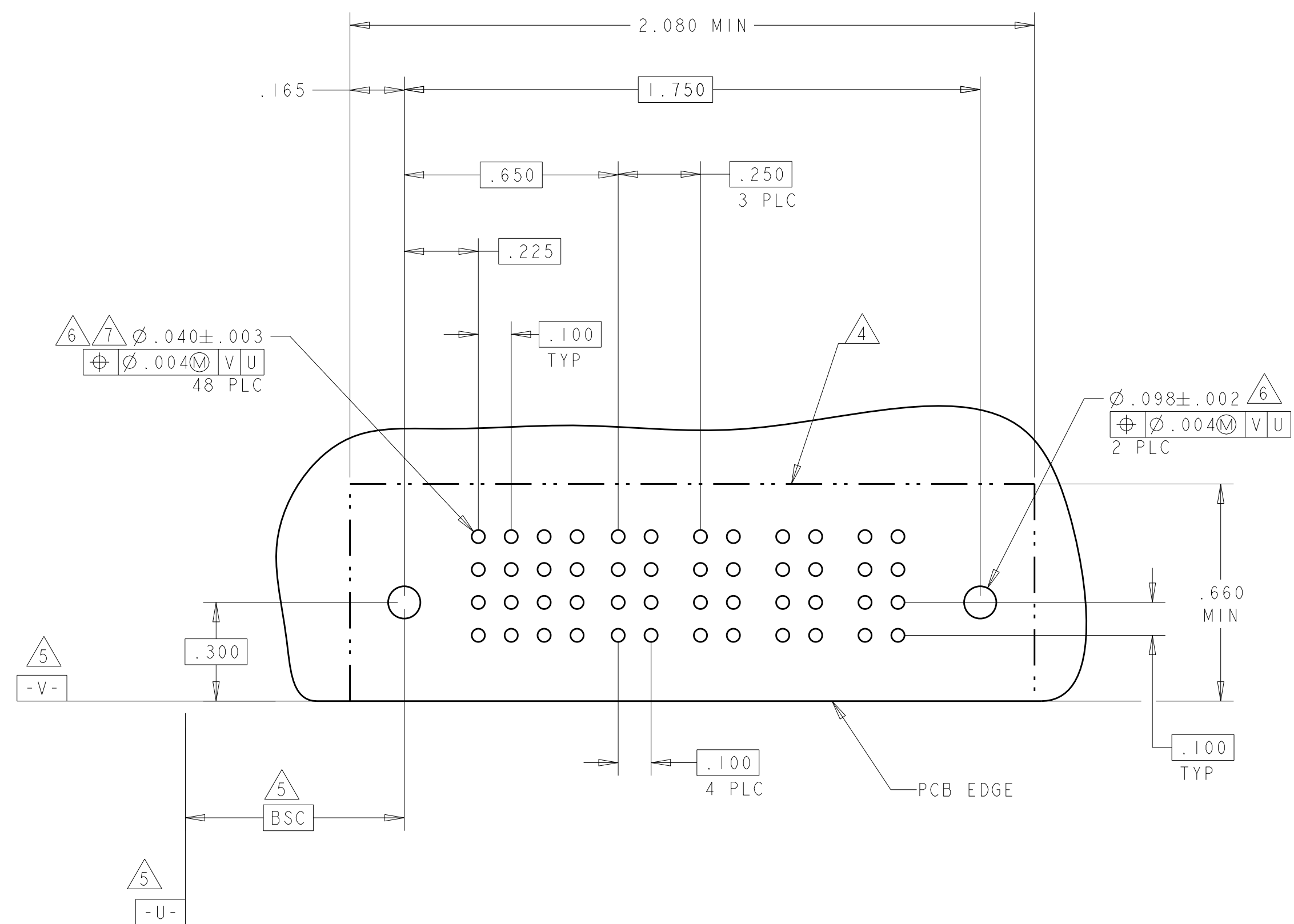
SCALE: 1:1

SHEET: 6 OF 9

REV: E9

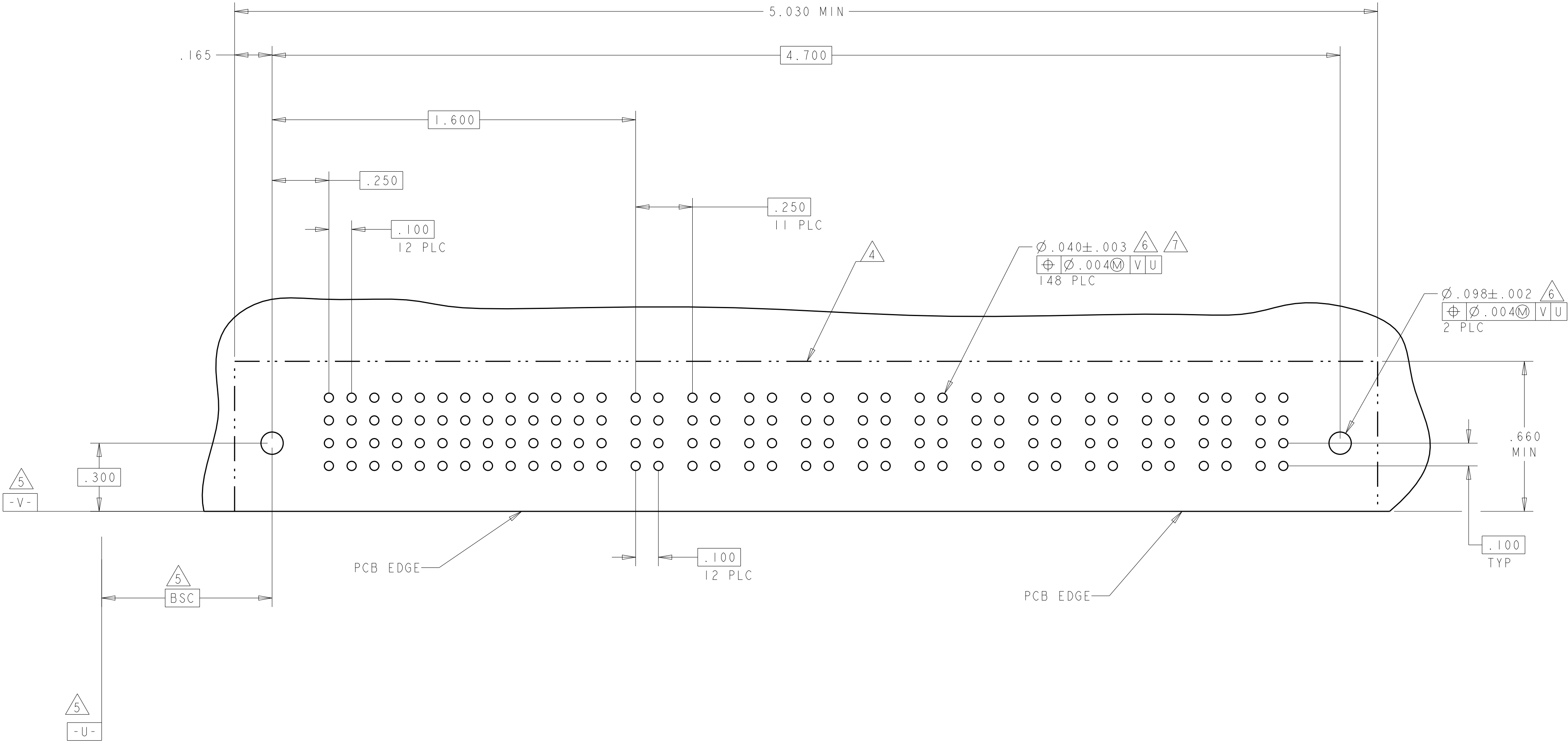
PART NUMBER	ROWS		SIGNAL			POWER				
			I	2	3	P1	P2	P3	P4	
I-6450131-9	D		J	FJ	FJ	PM	PM	PM	PM	
	C		K	K	K					
	B		N	N	N					
	A		H	H	S					
12S + 4P										

4805 (3/11)



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

PART NUMBER	ROWS		SIGNAL													POWER													
			1	2	3	4	5	6	7	8	9	10	11	12	13	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12		
2-6450131-3	D		J	J	J	J	J	J	J	J	J	J	J	J		PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	
	K		K	K	K	K	F	F	K	K	K	K	K	K															
	N		N	N	N	N	G	G	N	N	N	N	N	N															N
	S		S	S	S	S	S	S	S	S	S	S	S	S															S
52S + 12P																													



THIS DRAWING IS A CONTROLLED DOCUMENT.

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

15FEB05
15FEB05
-

DIMENSIONS:
INCHES

0 PLC ±"
1 PLC ±.01
2 PLC ±.01
3 PLC ±.005
4 PLC ±.0020
ANGLES ±2°
FINISH

TOLERANCES UNLESS
OTHERWISE SPECIFIED:

15FEB05
15FEB05
-

PRODUCT SPEC
108-1973
APPLICATION SPEC
114-13038
WEIGHT
-

15FEB05
15FEB05
-

MATERIAL
-

15FEB05
15FEB05
-

CUSTOMER DRAWING

SCALE
1:1

SHEET
9

OF
9

REV
E

TE Connectivity

RIGHT ANGLE HEADER ASSY
SOLDER CONTACTS, W/GUIDES
MULTI-BEAM XL

SIZE
A1

CAGE CODE
00779

DRAWING NO
6450131

RESTRICTED TO
-