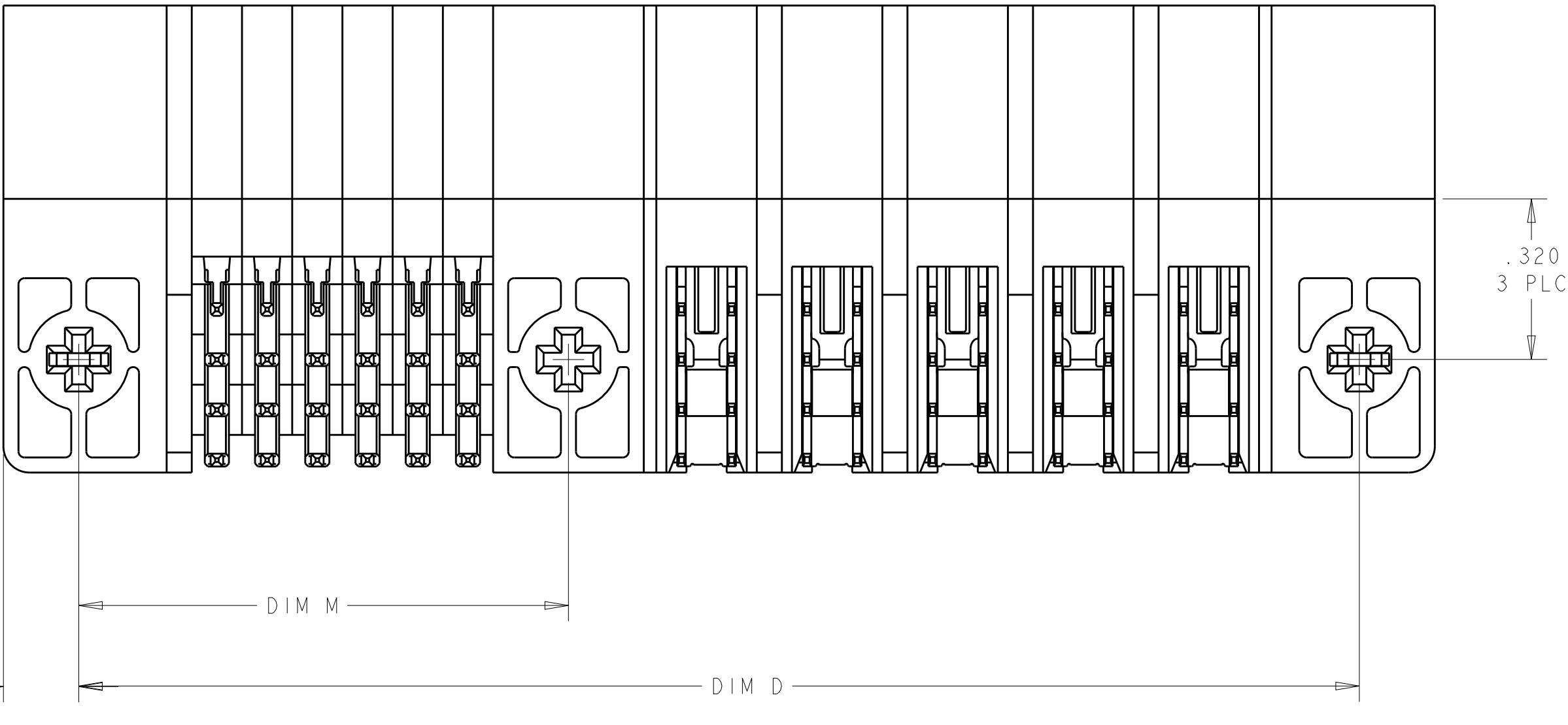
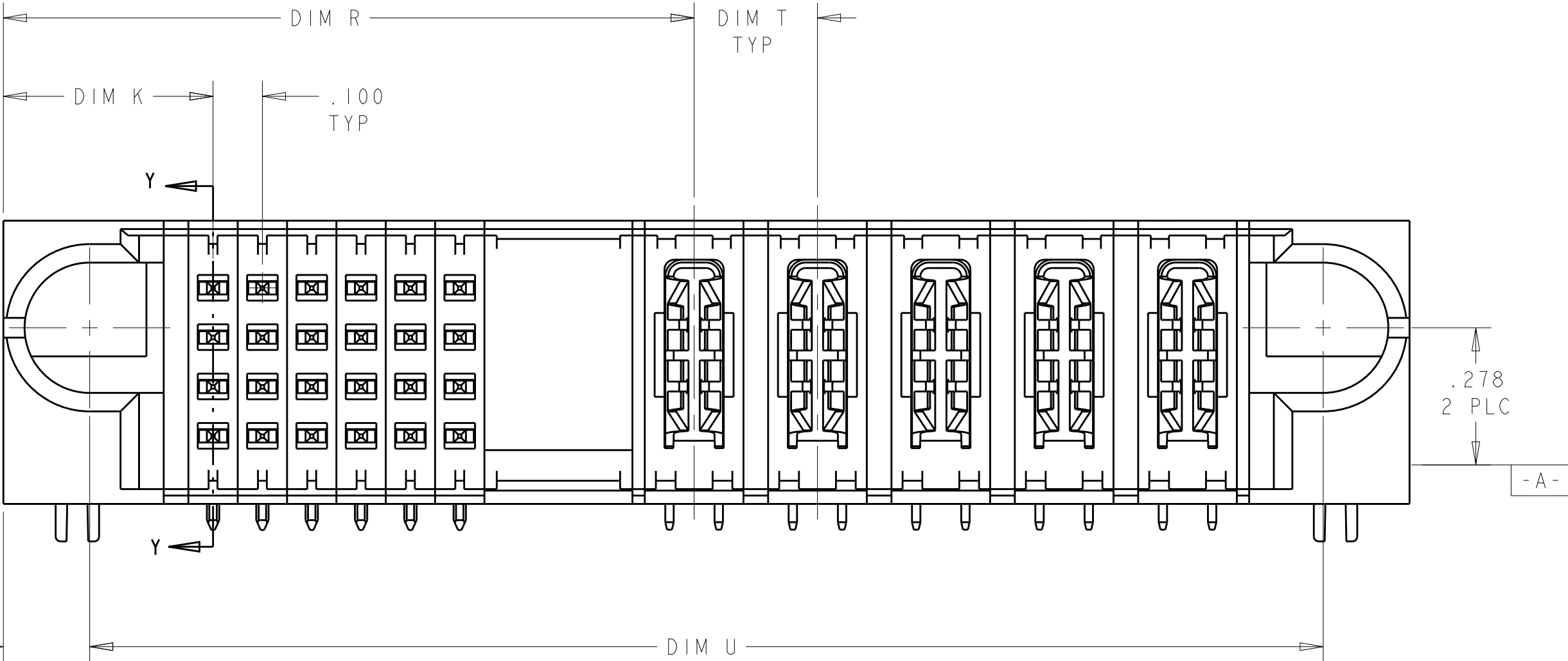
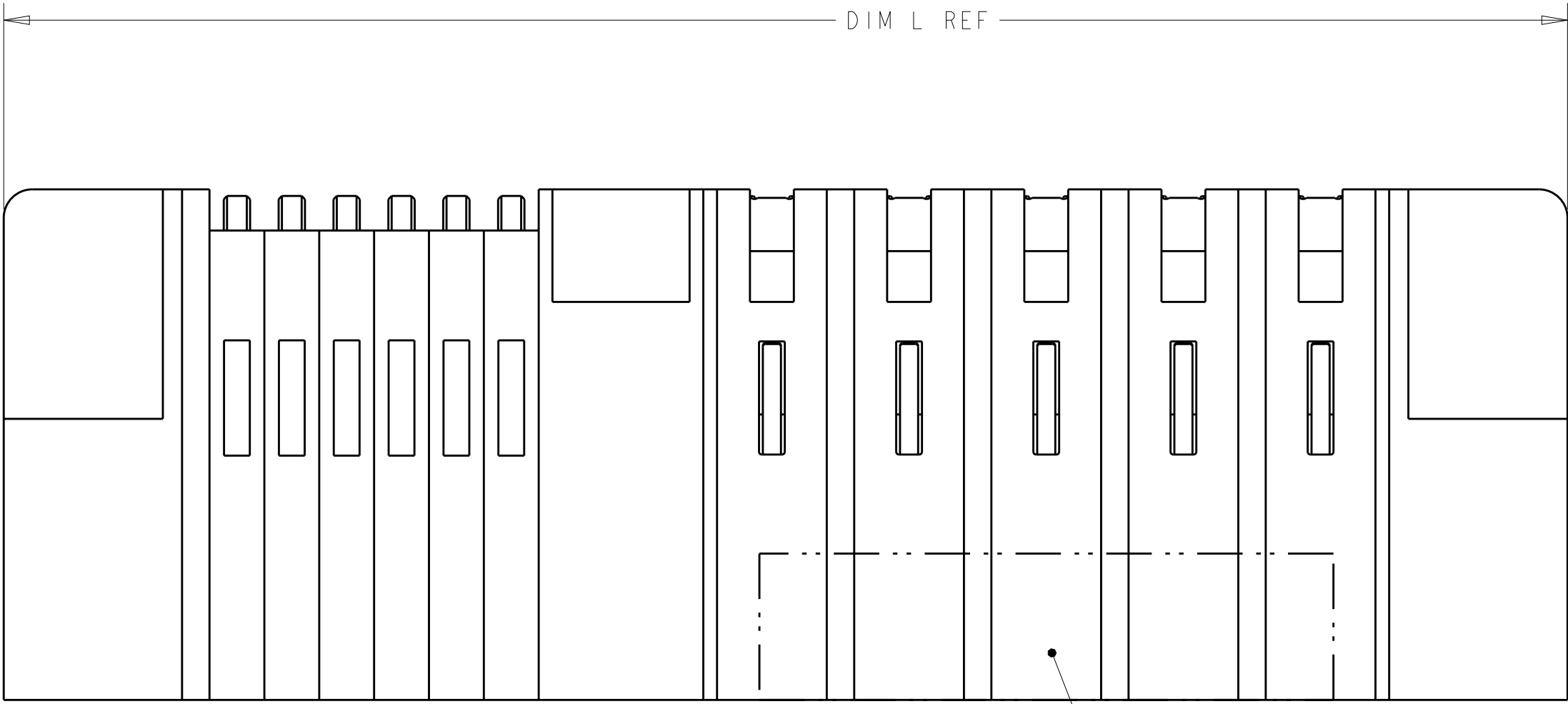
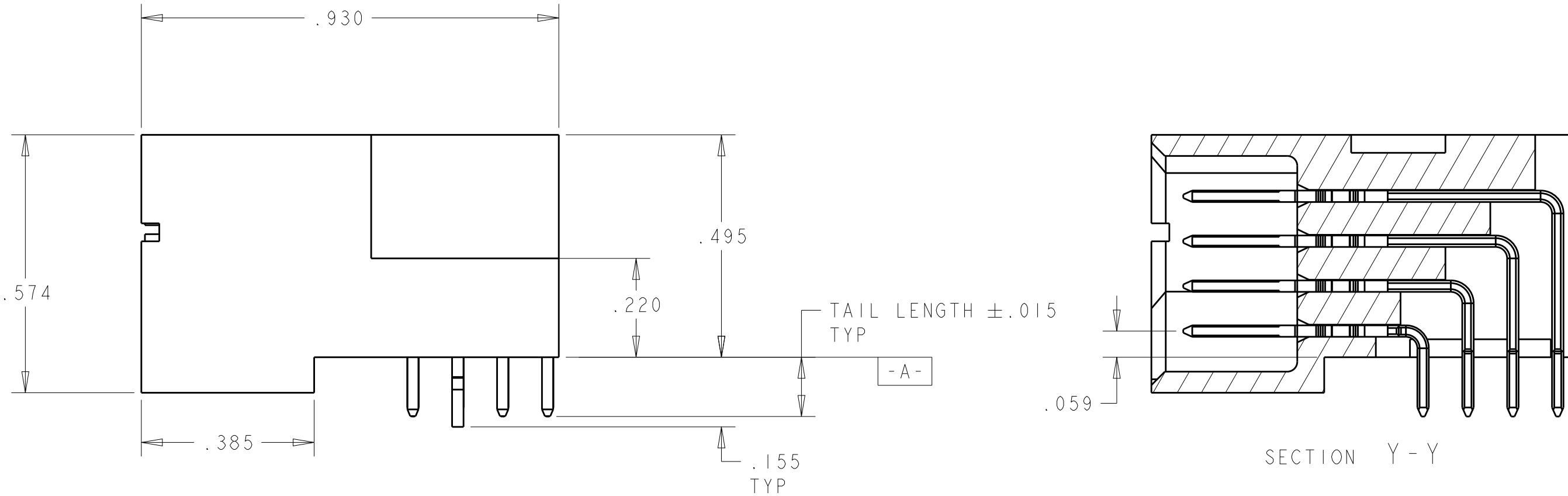


LOC	DIST	REVISIONS						
		P	LTR	DESCRIPTION	DATE	DWN	APVD	
ES	00		G	ADD NEW DASH NUMBER 2-8	15DEC2014	CZ	SZ	
			G1	ADD NEW DASH NUMBER 2-9	13FEB2015	CZ	SZ	
			G2	REV PER ECO-17-013298	11SEP2017	WY	SZ	



1. CENTER MODULE OPTION AVAILABLE
- 2 "AMP", PART NUMBER, AND DATECODE TO BE MARKED IN AREA SHOWN.
- 3 MATERIAL:
HOUSING - GLASS FILLED HIGH TEMP THERMO PLASTIC, UL94 V-0
SIGNAL CONTACT - COPPER ALLOY
POWER CONTACT - HIGH CONDUCTIVITY COPPER ALLOY
- 4 CONTACT PLATING:
NOBLE METAL PLATED ON THE 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±.003 DIA HOLE
- 9 VARIABLE DIMENSION, SEE SHEET 2
- 10 FOR DETAIL DIMENSION ,PLEASE REFER TO TABLE



SECTION Y-Y

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R.GRZYBOWSKI	02FEB05	TE Connectivity	
DIMENSIONS: INCHES		CHK M.PERCHEKKE	02FEB05		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD M.PERCHEKKE	-	NAME RIGHT ANGLE HEADER ASSY W/GUIDES MULTI-BEAM XL	
0 PLC ±.01		PRODUCT SPEC		SIZE A1	
1 PLC ±.01		APPLICATION SPEC		CAGE CODE 6450121	
2 PLC ±.005		DRAWING NO		RESTRICTED TO	
3 PLC ±.0020		WEIGHT		SHEET 1 OF 13	
4 PLC ±.0020		CUSTOMER DRAWING		REV G2	
ANGLES ±.2°		SCALE N/A			
FINISH					

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

G2	1.125	-	-	-	1.175	.400	1.475	32S	3-6450121-0
	.800	-	-	-	.850	.375	1.150	20S	2-6450121-9
	1.875	-	-	-	1.875	.400	2.175	60S	2-6450121-8
	2.950	.200	-	1.050	3.000	.375	3.300	24S + 10P	2-6450121-7
	2.650	.250	-	1.050	2.700	.375	3.000	24S + 7P	2-6450121-5
	2.400	.250	-	1.050	2.450	.375	2.750	24S + 6P	2-6450121-4
	2.900	.250	-	1.050	2.950	.375	3.250	24S + 8P	2-6450121-3
	2.000	-	-	-	2.050	.375	2.350	68S	2-6450121-2
	1.100	-	-	-	1.150	.375	1.450	32S	2-6450121-1
	6.075	.200	-	1.375	6.125	.375	6.425	36S + 24P	2-6450121-0
	4.025		-	2.125	4.075	.375	4.375	60S + 8P	1-6450121-9
	2.925	.200	-	1.025	2.975	.375	3.275	24S + 10P	1-6450121-8
	2.400	.250	-	1.050	2.450	.375	2.750	24S + 6P	1-6450121-6
	1.700	.250	-	.850	1.750	.375	2.050	16S+4P	1-6450121-5
	3.325	-	-	-	3.375	.400	3.675	120S	1-6450121-3
	4.400	.250	-	1.050	4.450	.375	4.750	24S + 14P	1-6450121-2
	1.900	.250	-	1.050	1.950	.375	2.250	24S + 4P	1-6450121-1
	1.800	.250	-	.950	1.850	.375	2.150	20S + 4P	1-6450121-0
	1.800	.250	-	.950	1.850	.375	2.150	20S + 4P	6450121-4
	1.850	.300	-	1.125	1.900	.375	2.200	24S + 3ACP	6450121-3
	2.400	.250	-	1.050	2.450	.375	2.750	24S + 6P	6450121-2
	3.800		-	.900	3.850	.400	4.150	12S + 11P	6450121-1
	DIM U	DIM T	DIM M	DIM R	DIM D	DIM K	DIM L	DESCRIPTION	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
INCHES

MATERIAL
-

0 PLC
1 PLC
2 PLC
3 PLC
4 PLC

±"
±.01
±.005
±.0020

ANGLES
FINISH

±2°
-

-

DWN
R.GRZYBOWSKI

CHK
M.PERCHERKE

APVD
M.PERCHERKE

PRODUCT SPEC
108-1973

APPLICATION SPEC
114-13038

WEIGHT
-

CUSTOMER DRAWING

02FEB05

02FEB05

NAME
RIGHT ANGLE HEADER ASSY W/GUIDES
MULTI-BEAM XL

SIZE
A1

CAGE CODE
100779

DRAWING NO
6450121

RESTRICTED TO
-

SCALE
N/A

SHEET
2

OF
13

REV
G2

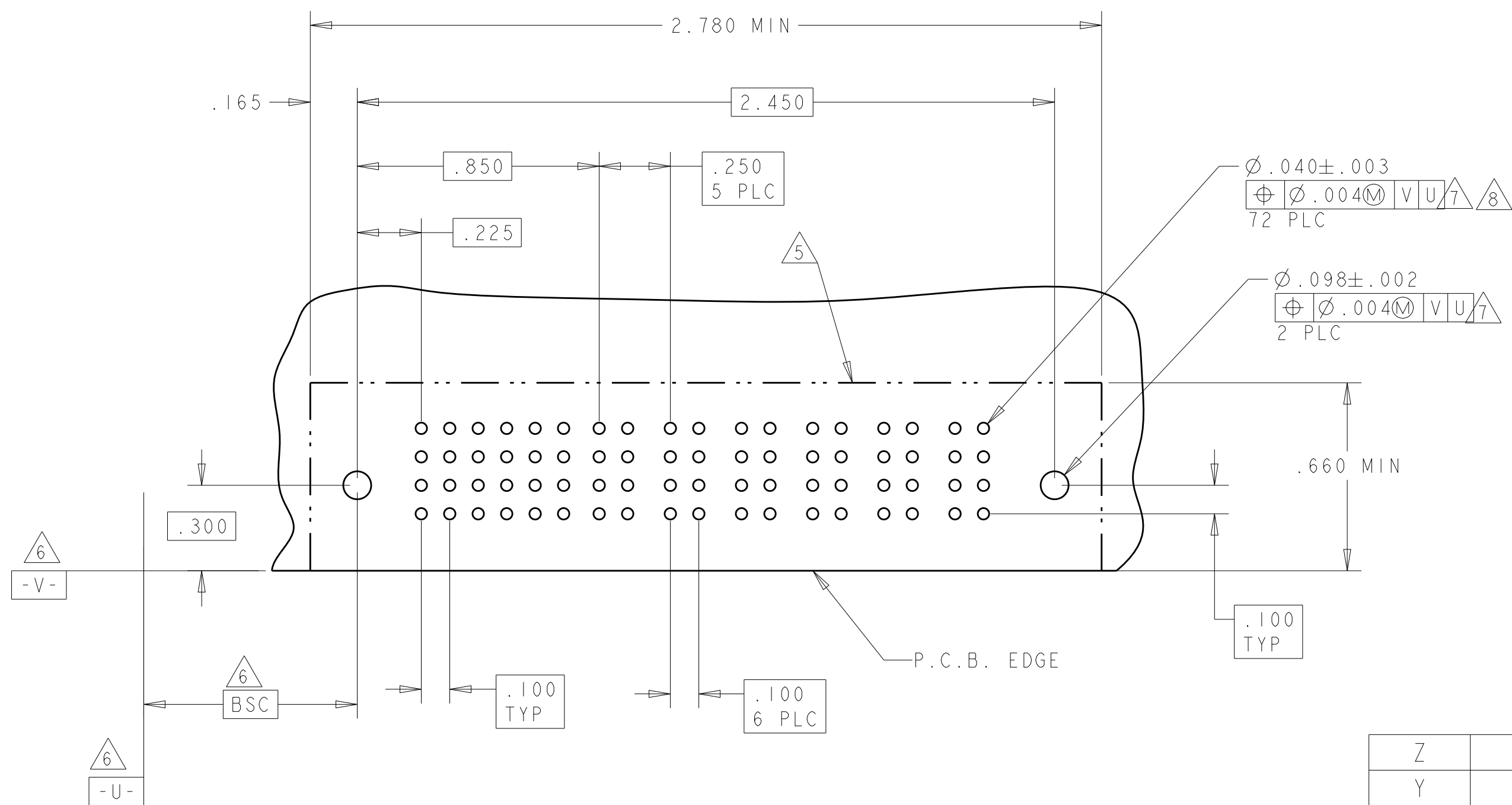
TE

TE Connectivity

4805 (3/11)

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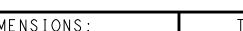
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6450121-2 & 2-6450121-4 RECOMMENDED PCB LAYOUT

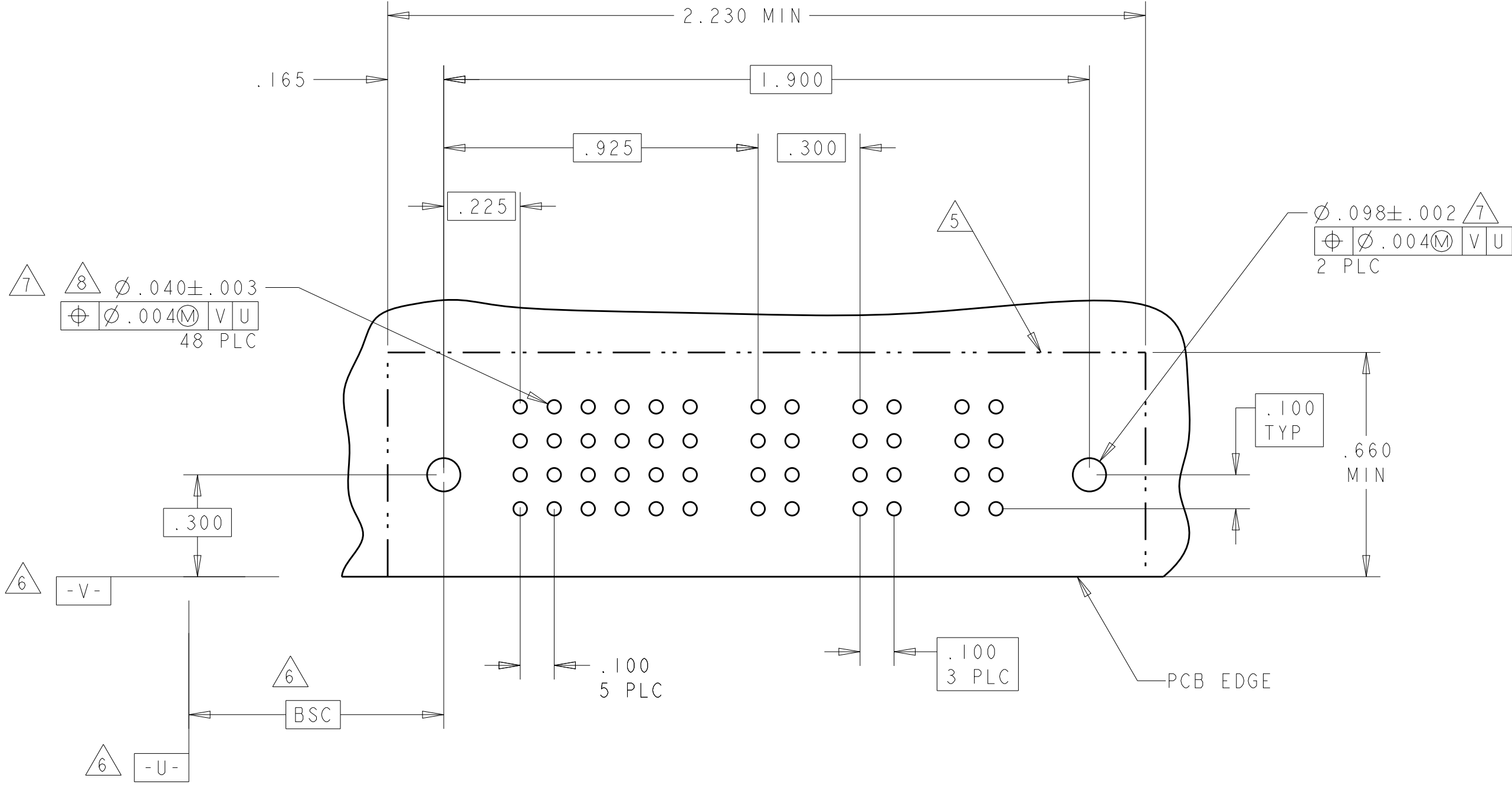
Z	STD	.090	D
Y	STD	.090	C
R	STD	.090	B
O	STD	.090	A
E	MLBF	.135	D
F	MLBF	.135	C
G	MLBF	.135	B
H	MLBF	.135	A
J	STD	.135	D
K	STD	.135	C
N	STD	.135	B
S	STD	.135	A
CODE	MATING SEQUENCE	TAIL LENGTH	ROW
SIGNAL CONTACT			

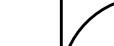
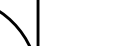
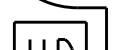
PA	.090
PM	.135
CODE	TAIL LENGTH
POWER CONTACT	

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWA D. GRZYBOWSKI 02FEB05		 TE Connectivity	
		CHG M. PERCHERKE 02FEB05			
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
		Ø PLC ±.01 P PLC ±.01 P PLC ±.005 P PLC ±.0020 ANGLES ±.0°		RIGHT ANGLE HEADER ASSY W/GUIDES MULTI-BEAM XL -	
		FINISH		PRODUCT SPEC 108-1973	
		MATERIAL -		APPLICATION SPEC 114-13038	
		WEIGHT -		SIZE CAGE CODE DRAWING NO A100779C6450121	
		CUSTOMER DRAWING		RESTRICTED TO -	
				SCALE N/A SHEET 3 OF 13 REV G2	

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

PART NUMBER	ROWS		SIGNAL						POWER					
			1	2	3	4	5	6	P1	P2	P3			
6450121-3	D		J	J	J	J	J	J						
	K		K	K	K	K	K	PM					PM	PM
	N		N	N	N	N	N							
	S		S	S	S	S	S							
24S + 3ACP														

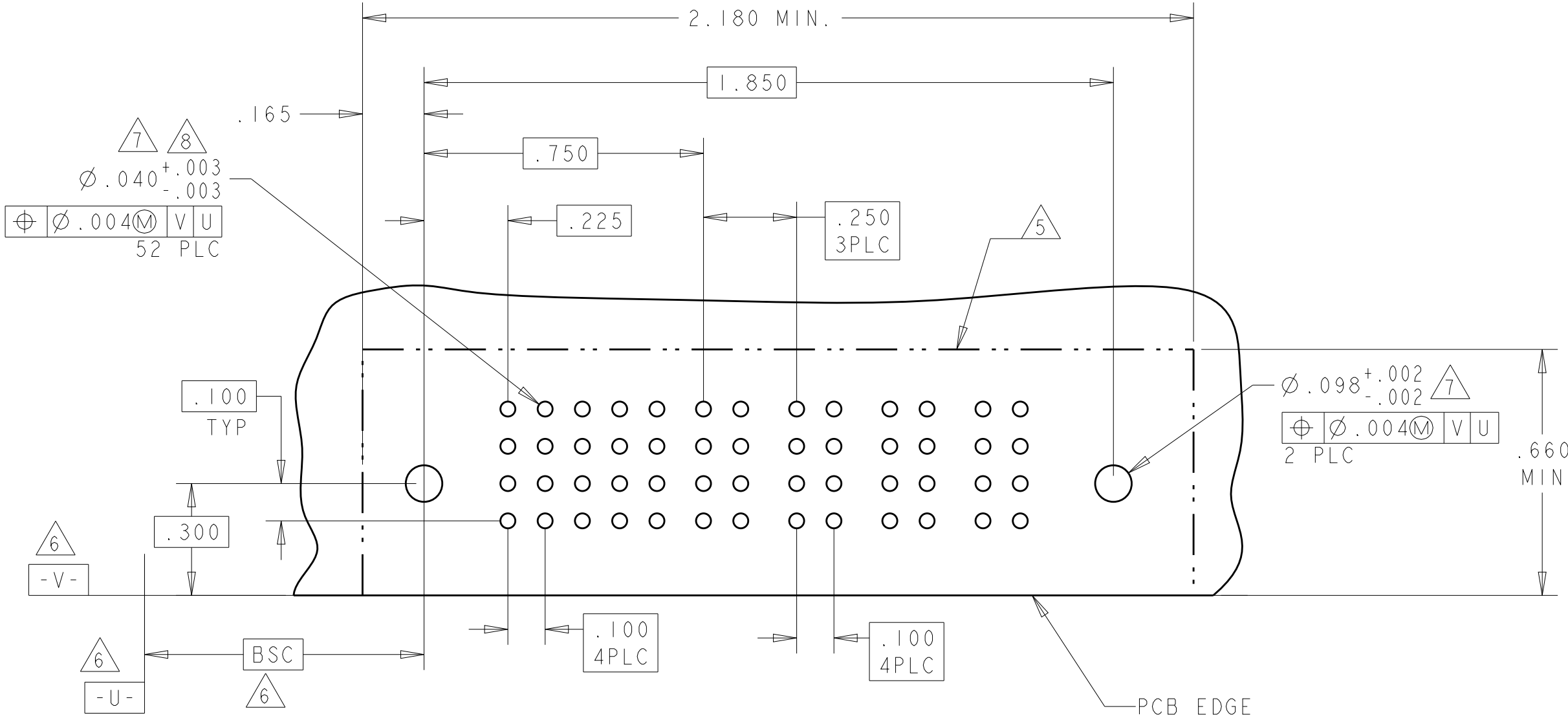
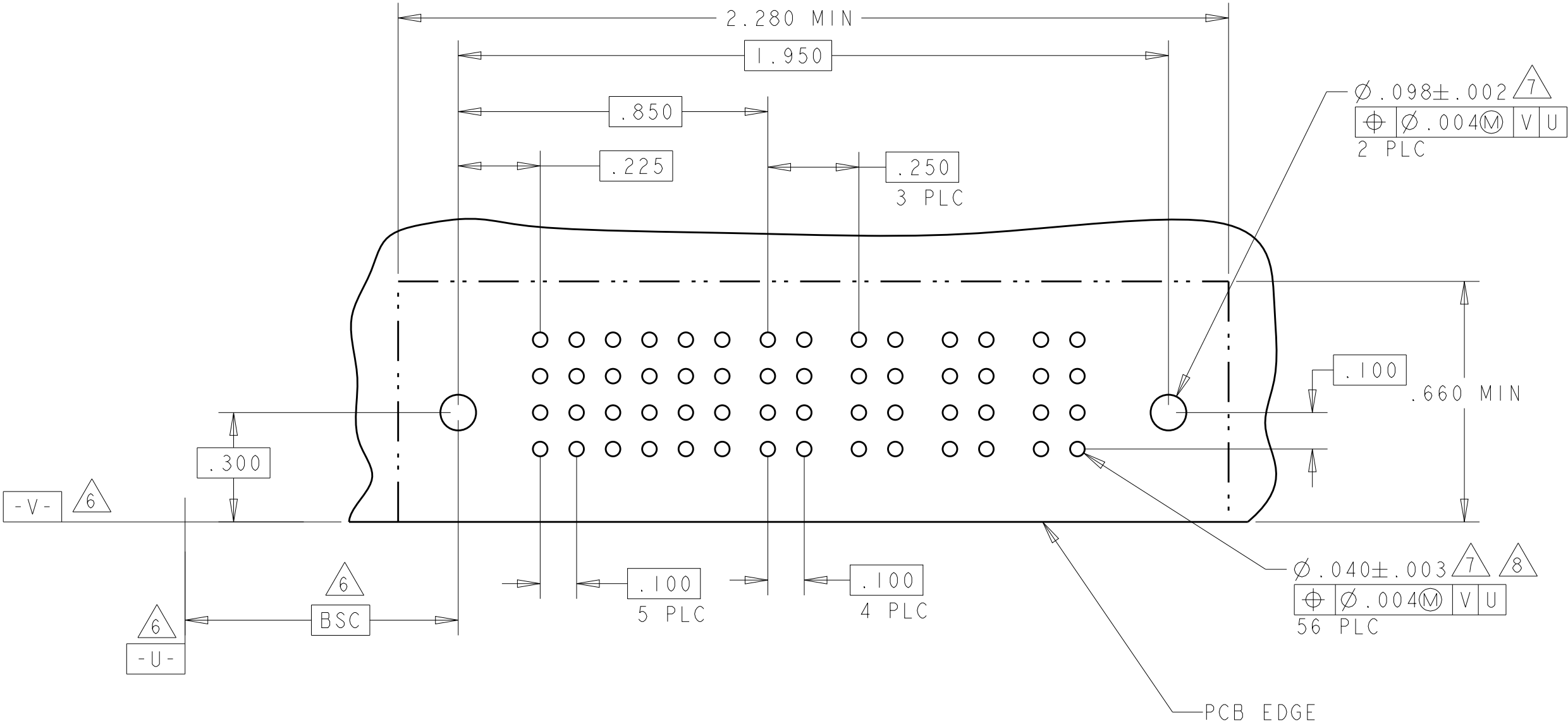


PART NUMBER	ROWS		SIGNAL					POWER				
			1	2	3	4	5	P1	P2	P3	P4	
6450121-4	D		J	J	J	J	J					
	K		K	K	K	K						
	N		N	N	N	N						
	S		S	S	S	S						
												
20S + 4P												

PART NUMBER	ROWS		SIGNAL					POWER					
			1	2	3	4	5	P1	P2	P3	P4		
I-6450121-0	D		J	J	J		J	PM	PM	PM	PM		
	C		K	K	K		K						
	B		N	N	N		N						
	A		S	S	S		S						
20S + 4P			HD										

NO CONTACT LOADED

PART NUMBER	ROWS		SIGNAL						POWER					
			1	2	3	4	5	6	P1	P2	P3	P4		
I-6450121-1	D		J	J	J	J	J	J	PM	PM	PM	PM		
	C		K	K	K	K	K	K						
	B		N	N	N	N	N	N						N
	A		S	S	S	S	S	S						S
24S + 4P														



PCB LAYOUT FOR P/N: 6450121-4, I-6450121-0

THIS DRAWING IS A CONTROLLED DOCUMENT.

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

02FEB05
02FEB05

DIMENSIONS:
INCHES

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

TOLERANCES UNLESS OTHERWISE SPECIFIED:

PRODUCT SPEC
108-1973
APPLICATION SPEC
114-13038
WEIGHT

NAME
RIGHT ANGLE HEADER ASSY W/GUIDES
MULTI-BEAM XL

SIZE
A100779

CAGE CODE
C=6450121

DRAWING NO
REV
G2

TE Connectivity

CUSTOMER DRAWING

SCALE
N/A

SHEET
4

OF
13

REV
G2

Technical drawing of a PCB layout for a 136-pin PLCC package. The drawing shows a rectangular layout with dimensions: overall width 4.780 MIN, pin pitch .100 TYP, and pin diameter .0040. The layout includes a central area for the package body and two circular mounting holes. Dimensions for the mounting holes are .165 and .100. The layout is labeled with "PCB EDGE" and "136PLC".

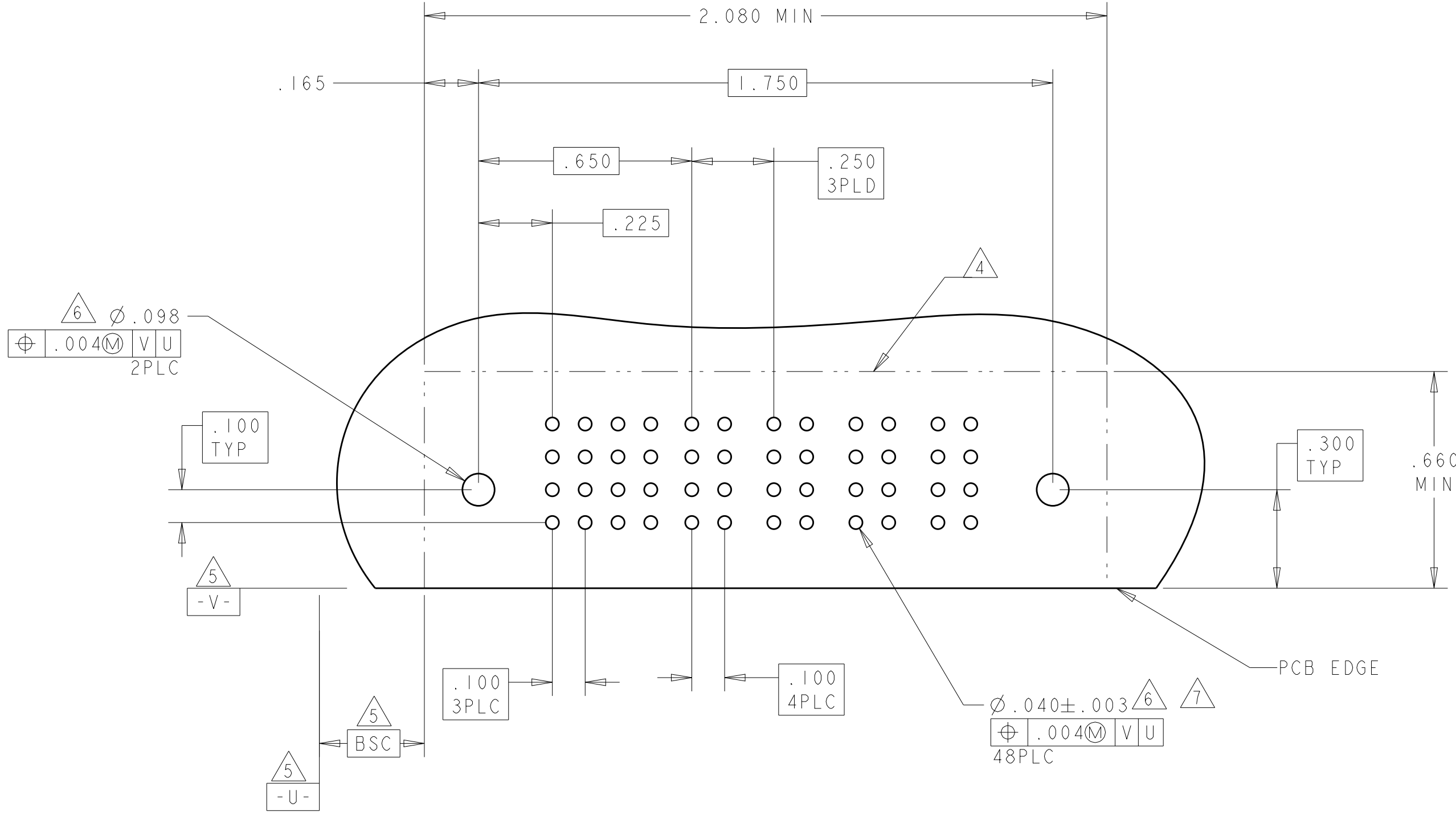
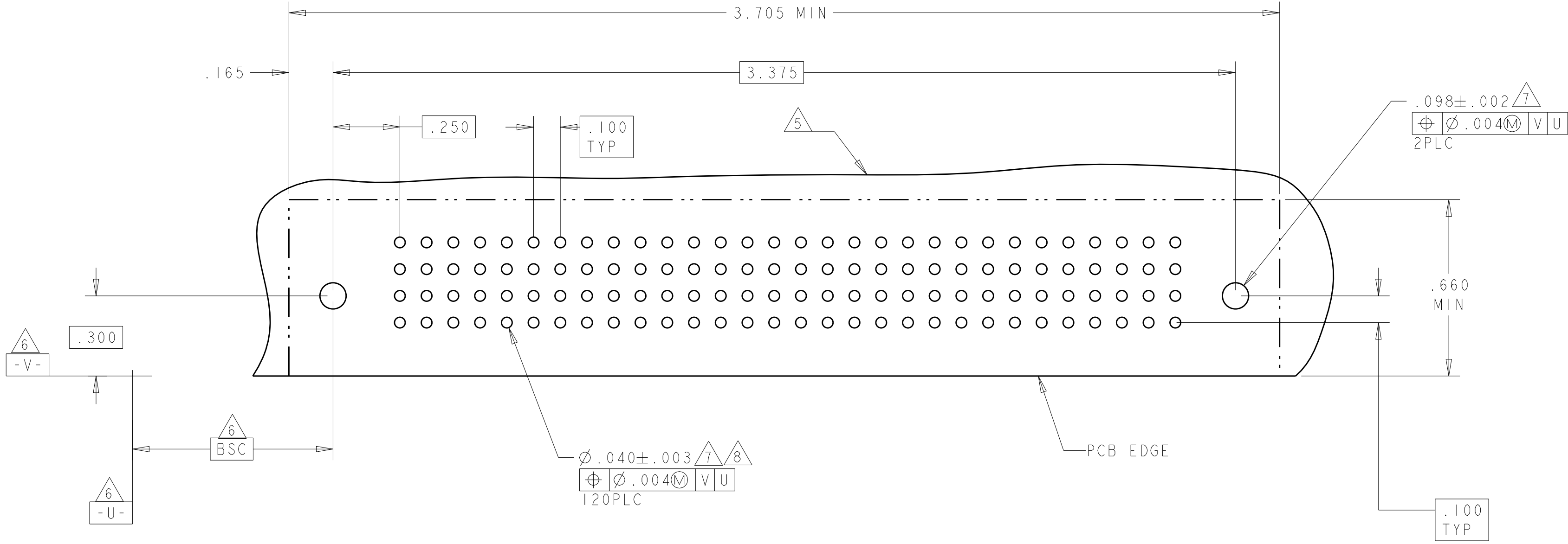
4805 (3/11)

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

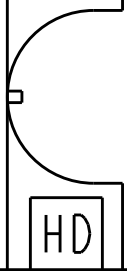
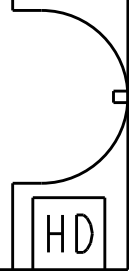
PART NUMBER	ROWS		SIGNAL																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
I-6450121-3	D		E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	J		
	C		F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
	B		G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
	A		S	S	H	H	H	H	H	H	H	H	H	S	S	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
120S																																	

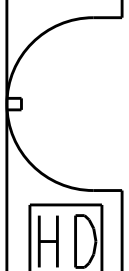
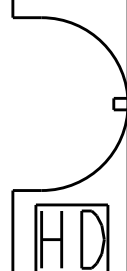
NO CONTACTS LOADED

PART NUMBER	ROWS		SIGNAL				POWER				
			1	2	3	4	P1	P2	P3	P4	
I-6450121-5	D		J	J	J	J	PM	PM	PM	PM	
	C		K	K	K	K					
	B		N	N	N	N					
	A		S	S	S	S					
	16S + 4P										



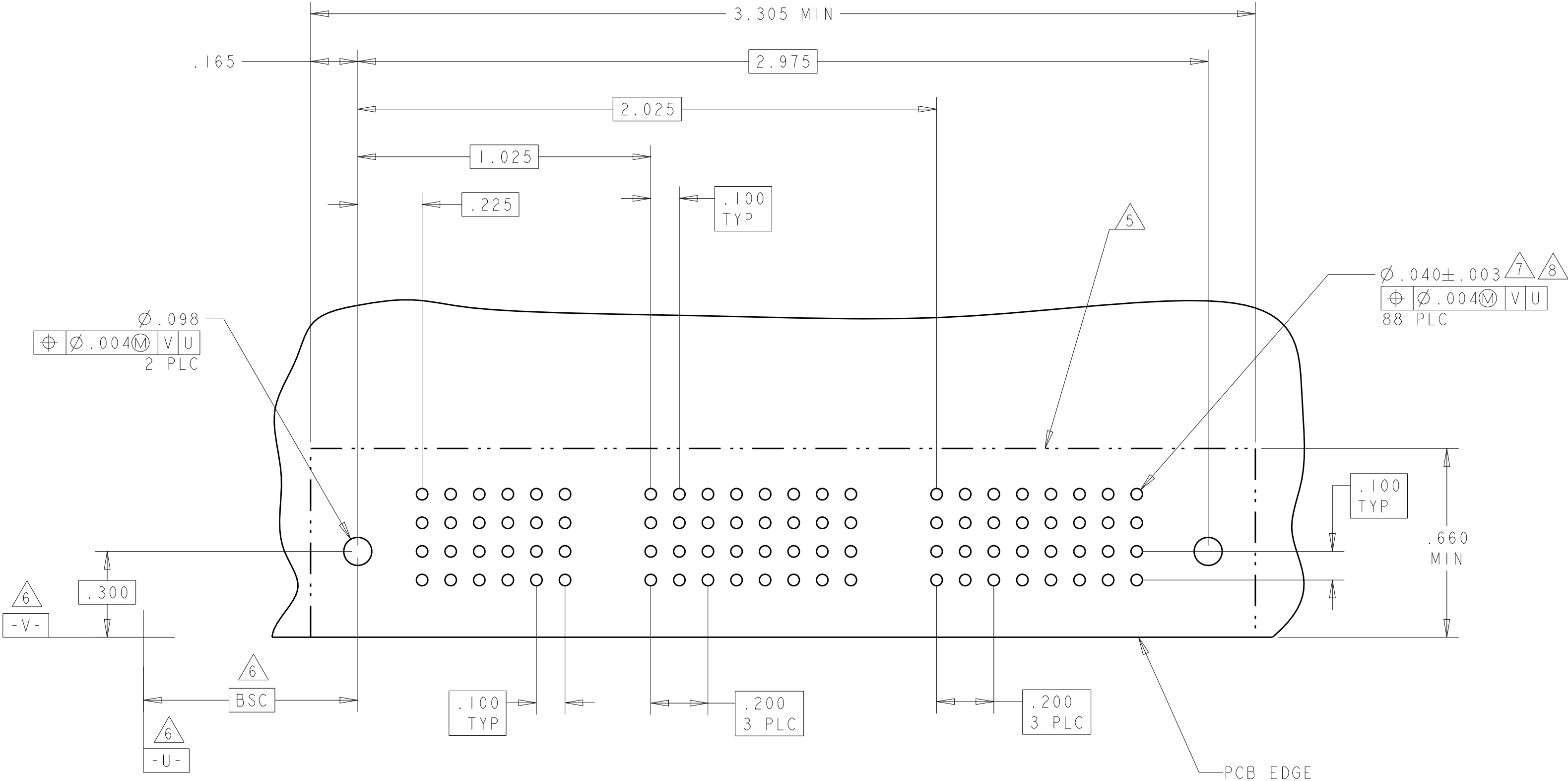
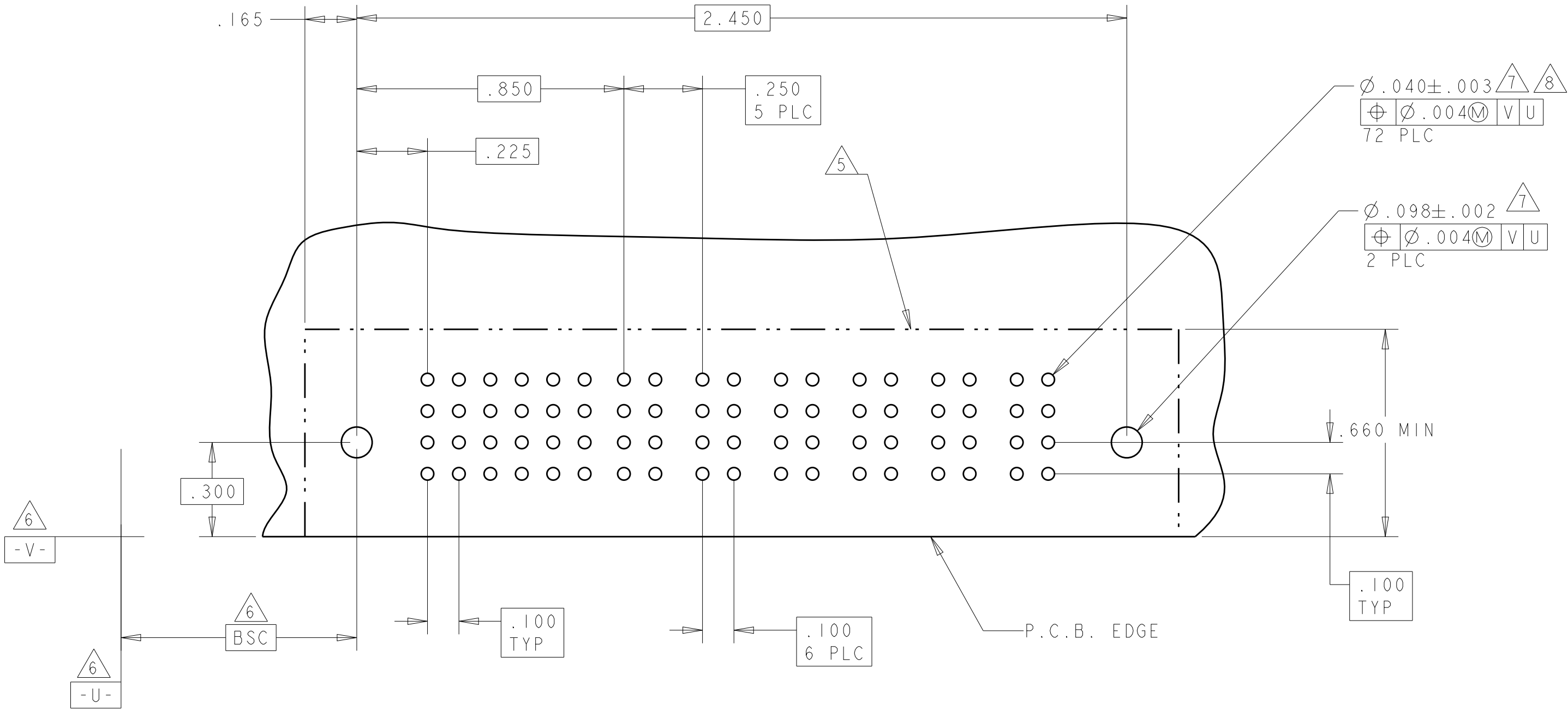
LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
ES	00	-	-	SEE SHEET 1	-	-	-

PART NUMBER	ROWS		SIGNAL						POWER						
			1	2	3	4	5	6	P1	P2	P3	P4	P5	P6	
I-6450121-6	D C B A		J	J	J	J	J	J	PM	PM	PM	PM	PM	PM	
			K	K	K	K	K	K							
			N	N	N	N	N	N							
24S + 6P		HD	S	S	S	S	S	S							HD

PART NUMBER	ROWS		SIGNAL						POWER										
			1	2	3	4	5	6	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	
I-6450121-8	D C B A		J	J	J		J		PM	PM	PM	PM			PM	PM	PM	PM	
			K	K	K		K												
			N	N	N		N												
24S + 10P		HD	S	S	S		S												HD

NO CONTACTS LOADED

NO CONTACTS LOADED



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DWN

R. GRZYBOWSKI

02FEB05

CHK

M. PERCHERKE

02FEB05

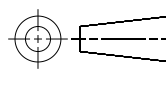
APVD

M. PERCHERKE

-

DIMENSIONS:

INCHES



MATERIAL

-

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±.01

1 PLC ±.01

2 PLC ±.01

3 PLC ±.005

4 PLC ±.0020

ANGLES ±.2°

FINISH

-

PRODUCT SPEC

108-1973

APPLICATION SPEC

114-13038

WEIGHT

-

CUSTOMER DRAWING

NAME

RIGHT ANGLE HEADER ASSY W/GUIDES MULTI-BEAM XL

SIZE

A1

CAGE CODE

00779

DRAWING NO

6450121

RESTRICTED TO

-

SCALE

N/A

SHEET

7

OF

13

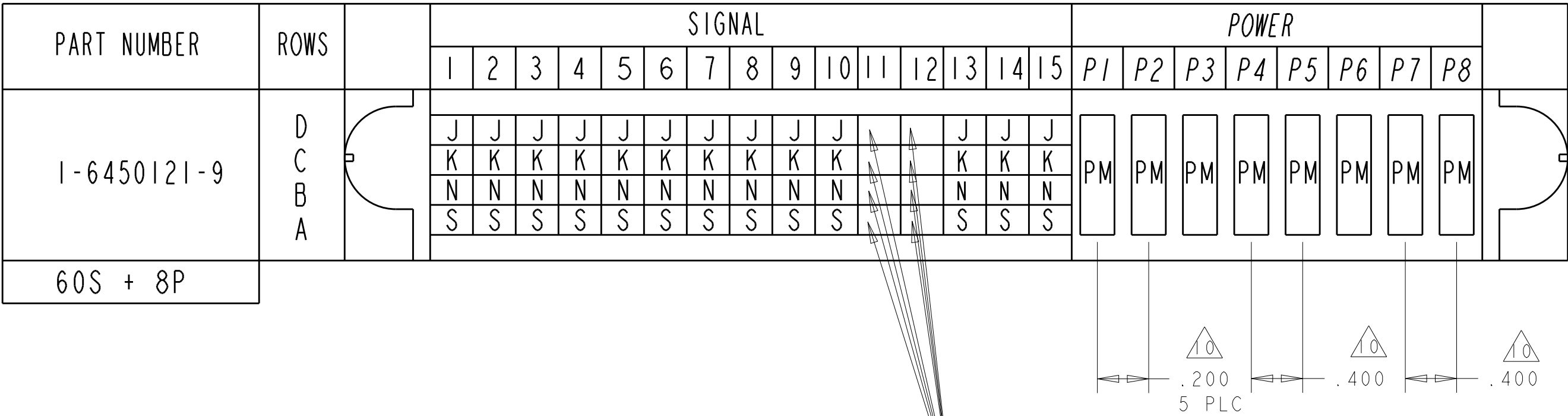
REV

G2

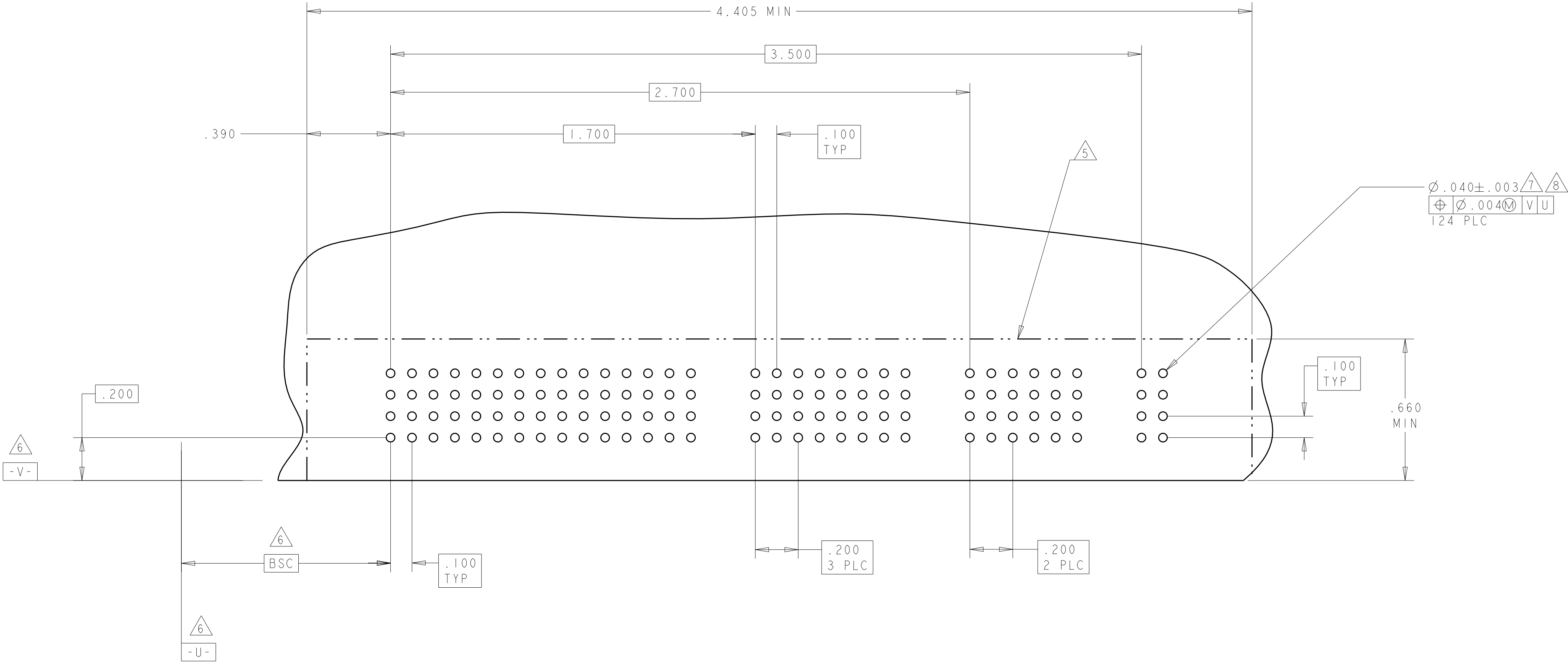
TE

TE Connectivity

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



NO CONTACTS LOADED



THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN R.GRZYBOWSKI 02FEB05
CHK M.PERCHERKE 02FEB05
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

-

CUSTOMER DRAWING

SCALE N/A

SHEET 8 OF 13

REV G2

TE Connectivity

NAME RIGHT ANGLE HEADER ASSY W/GUIDES
MULTI-BEAM XL

SIZE A100779C=6450121

RESTRICTED TO

—NO CONTACTS LOADED

-NO CONTACTS LOADED

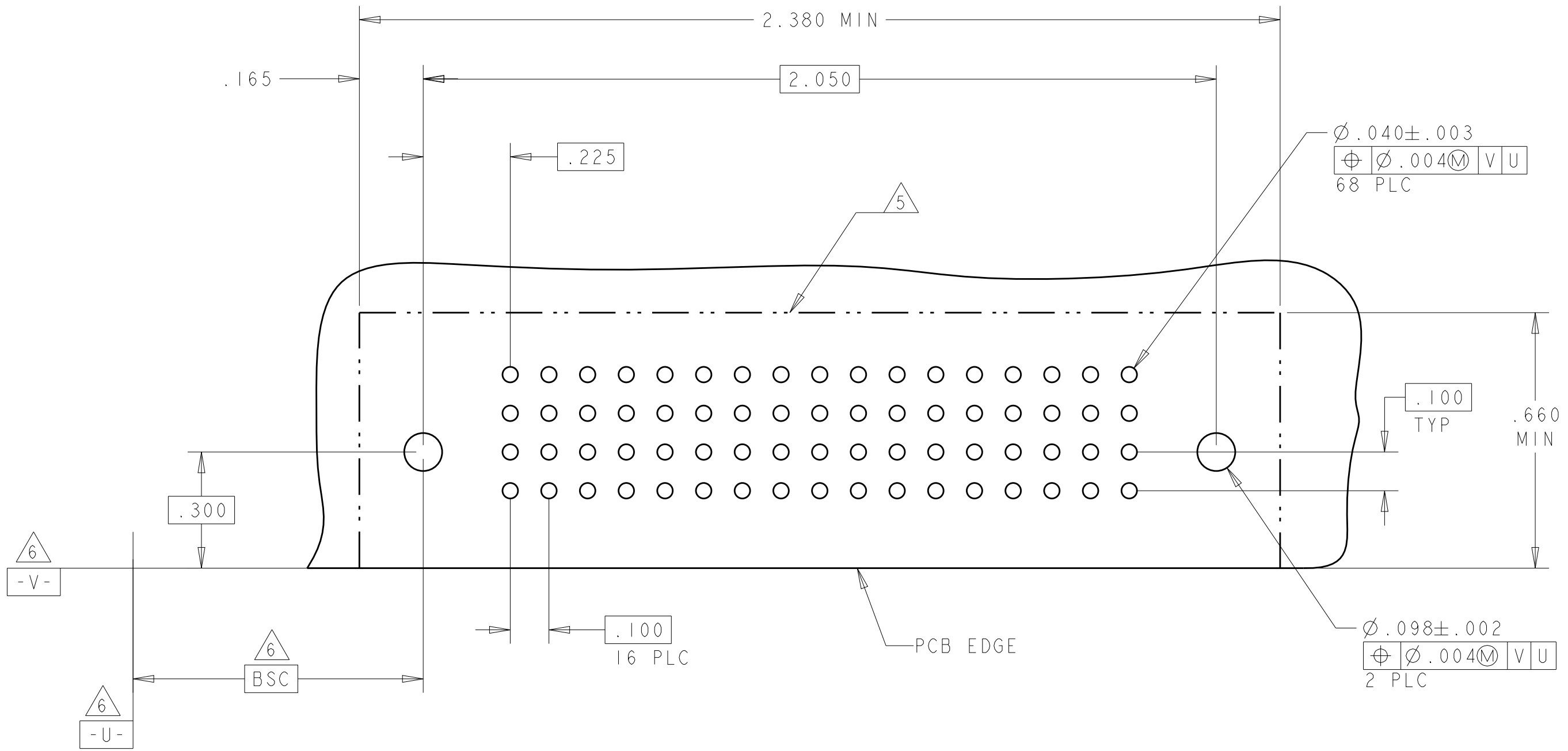
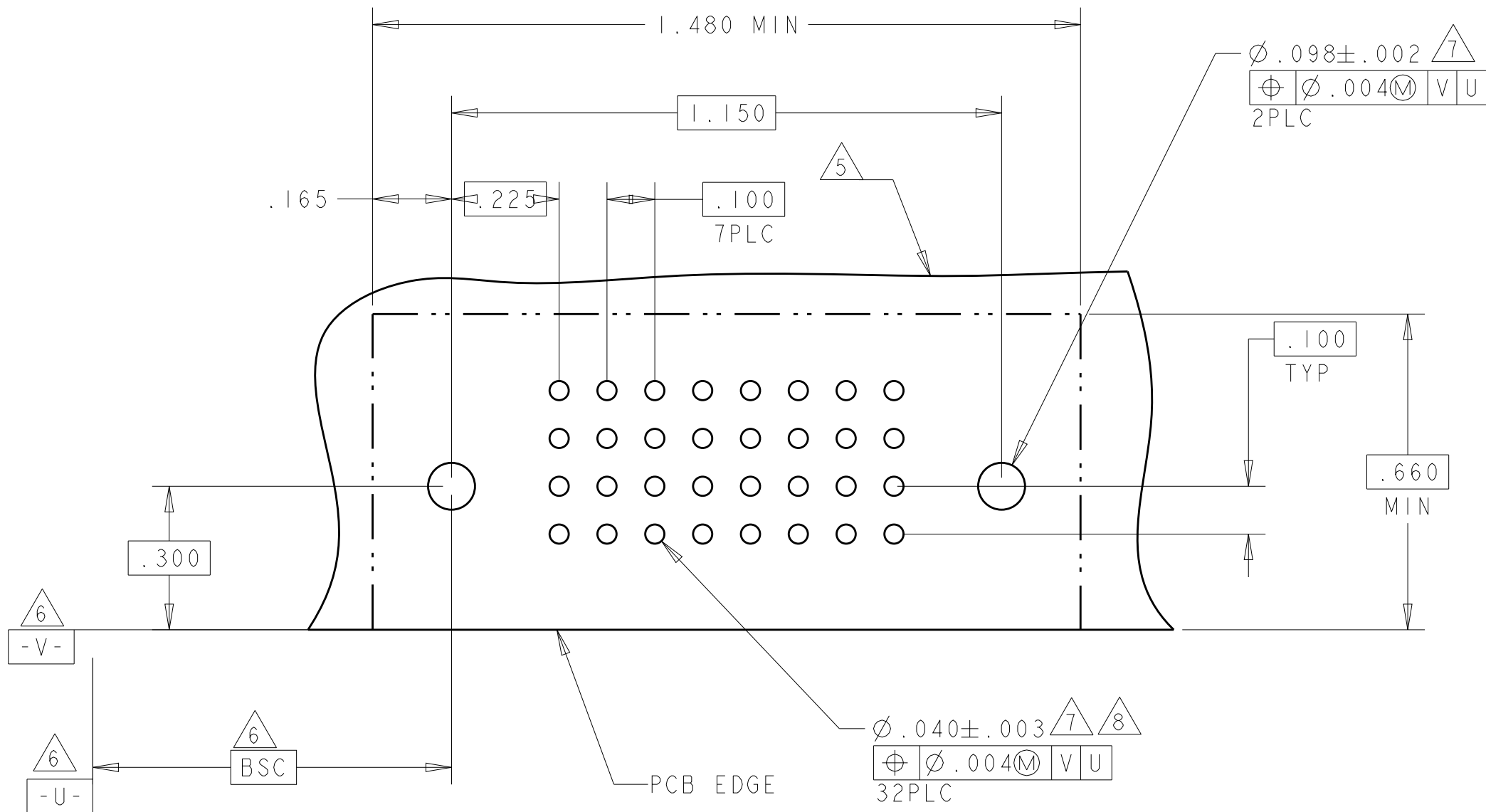
4805 (3/11)

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

PART NUMBER	ROWS		SIGNAL								
			1	2	3	4	5	6	7	8	
2-6450121-1	D		J	J	J	J	J	J	J	J	
	C		K	K	K	K	K	K	K	K	
	B		N	N	N	N	N	N	N	N	
	A		S	S	S	S	S	S	S	S	
32S		HD									HD

PART NUMBER	ROWS		SIGNAL																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
2-6450121-2	D		J		J			J		J		J		J		J		J		
	C																			
	B		N		N		N		N		N		N		N		N		N	
	A		HD																	
68S																				HD

NO CONTACTS LOADED
50 PLC



THIS DRAWING IS A CONTROLLED DOCUMENT.

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

02FEB05
02FEB05
-

DIMENSIONS:
INCHES

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

TOLERANCES UNLESS
OTHERWISE SPECIFIED:

108-1973
APPLICATION SPEC
114-13038
WEIGHT
CUSTOMER DRAWING

NAME
RIGHT ANGLE HEADER ASSY W/GUIDES
MULTI-BEAM XL

SIZE
A100779

CAGE CODE
C=6450121

DRAWING NO
-

RESTRICTED TO
-

SCALE
N/A

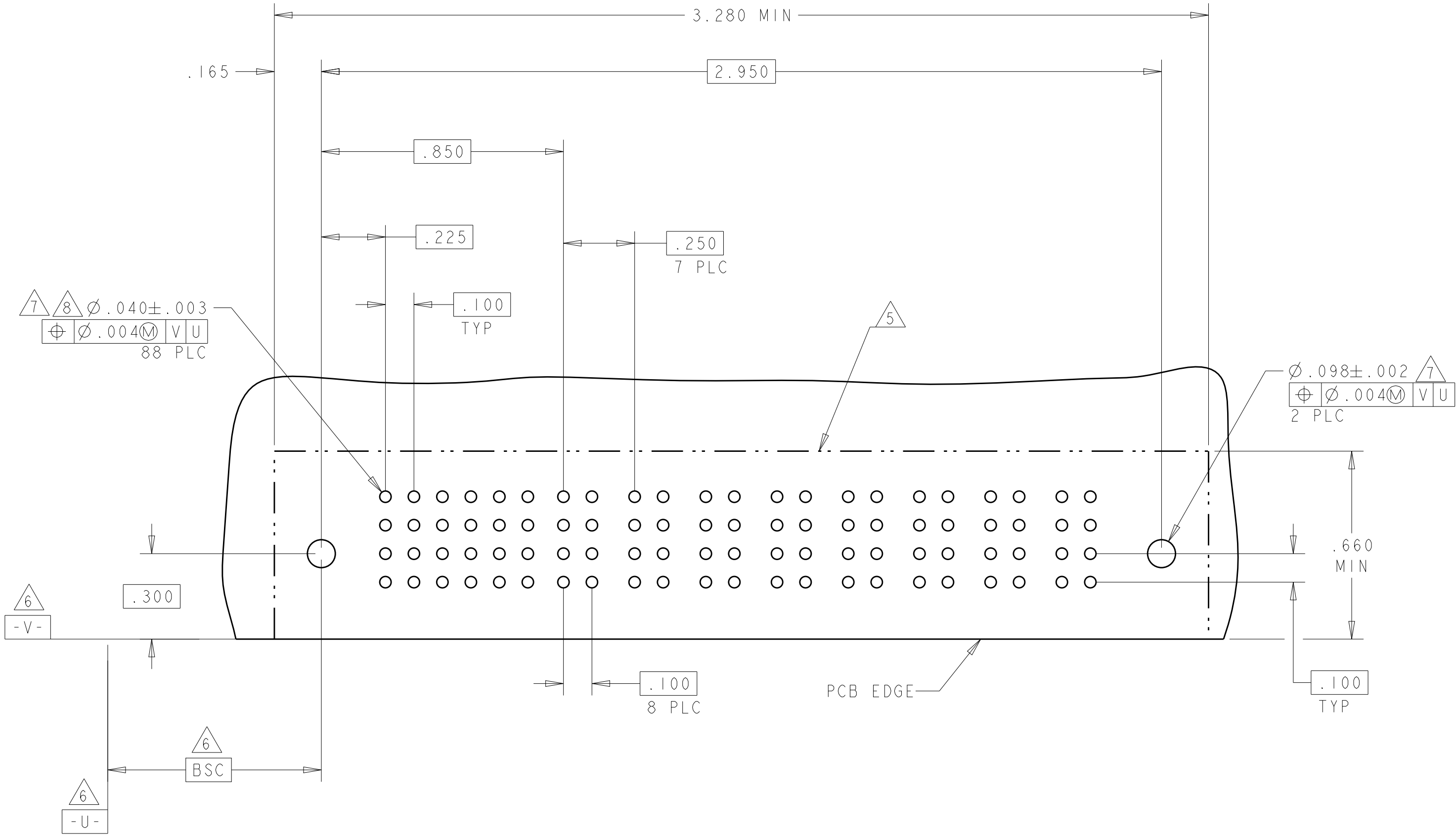
SHEET
10

OF
13

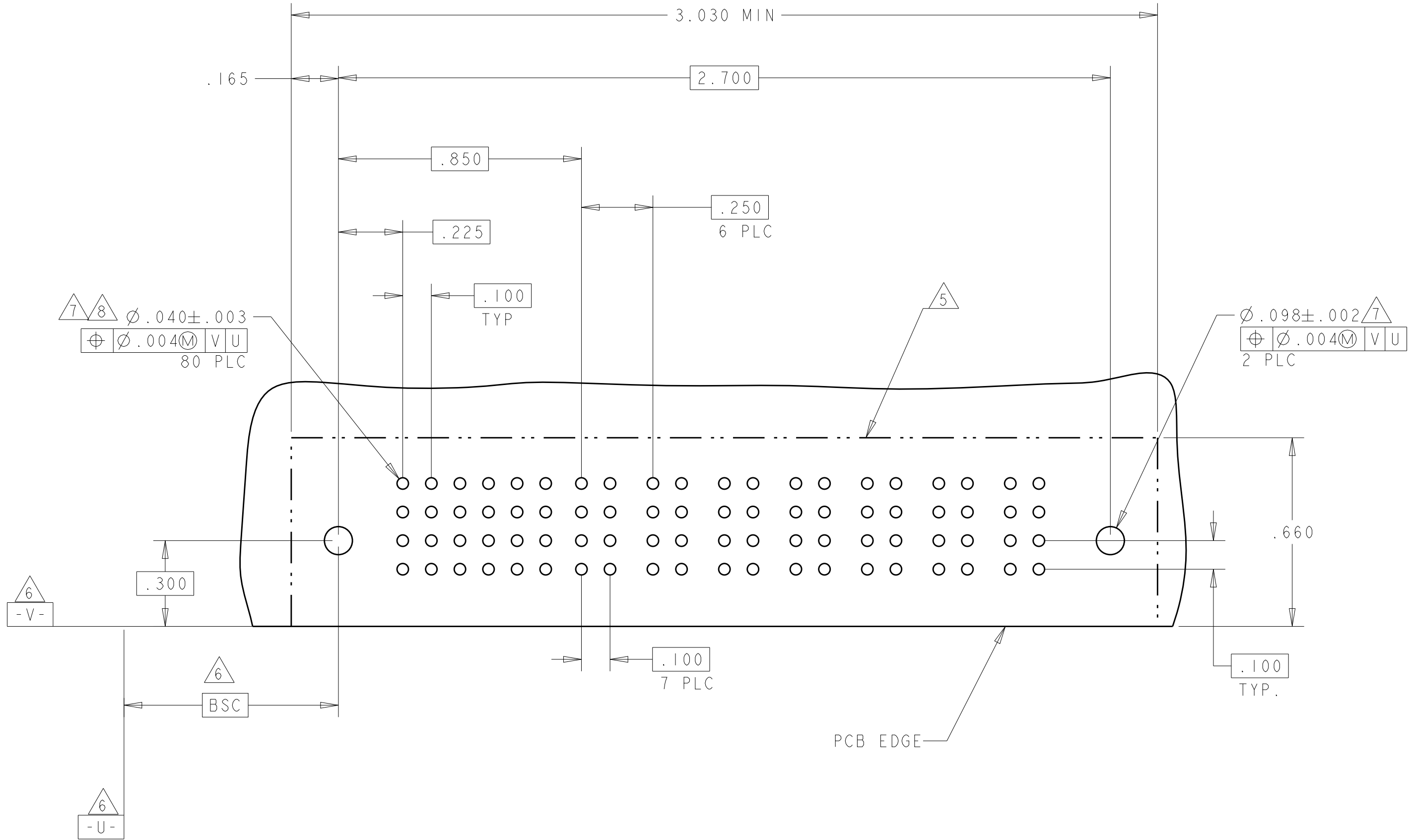
REV
G2

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	
2-6450121-3	D C B A	HD	J	J	J	J	J	J	PM	PM	PM	PM	PM	PM	PM	PM	HD
			K	K	K	K	K	K									
			N	N	N	N	N	N									
24S + 8P			S	S	S	S	S	S									

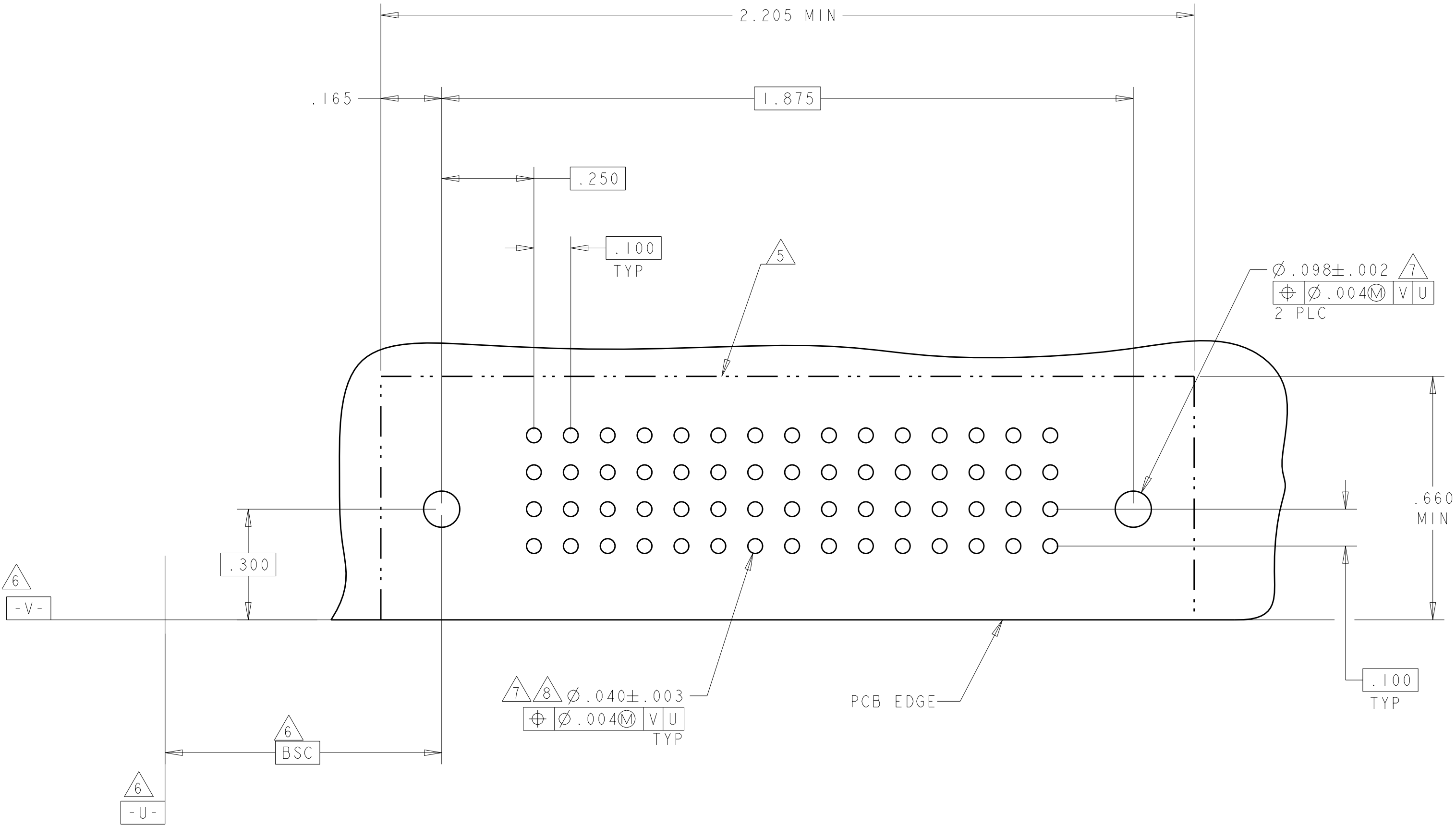


PART NUMBER	ROWS		SIGNAL						POWER							
			1	2	3	4	5	6	P1	P2	P3	P4	P5	P6	P7	
2-6450121-5	D C B A	HD	J	J	J	J	J	J	PM	PM	PM	PM	PM	PM	PM	HD
			K	K	K	K	K	K								
			N	N	N	N	N	N								
24S + 7P			S	S	S	S	S	S								

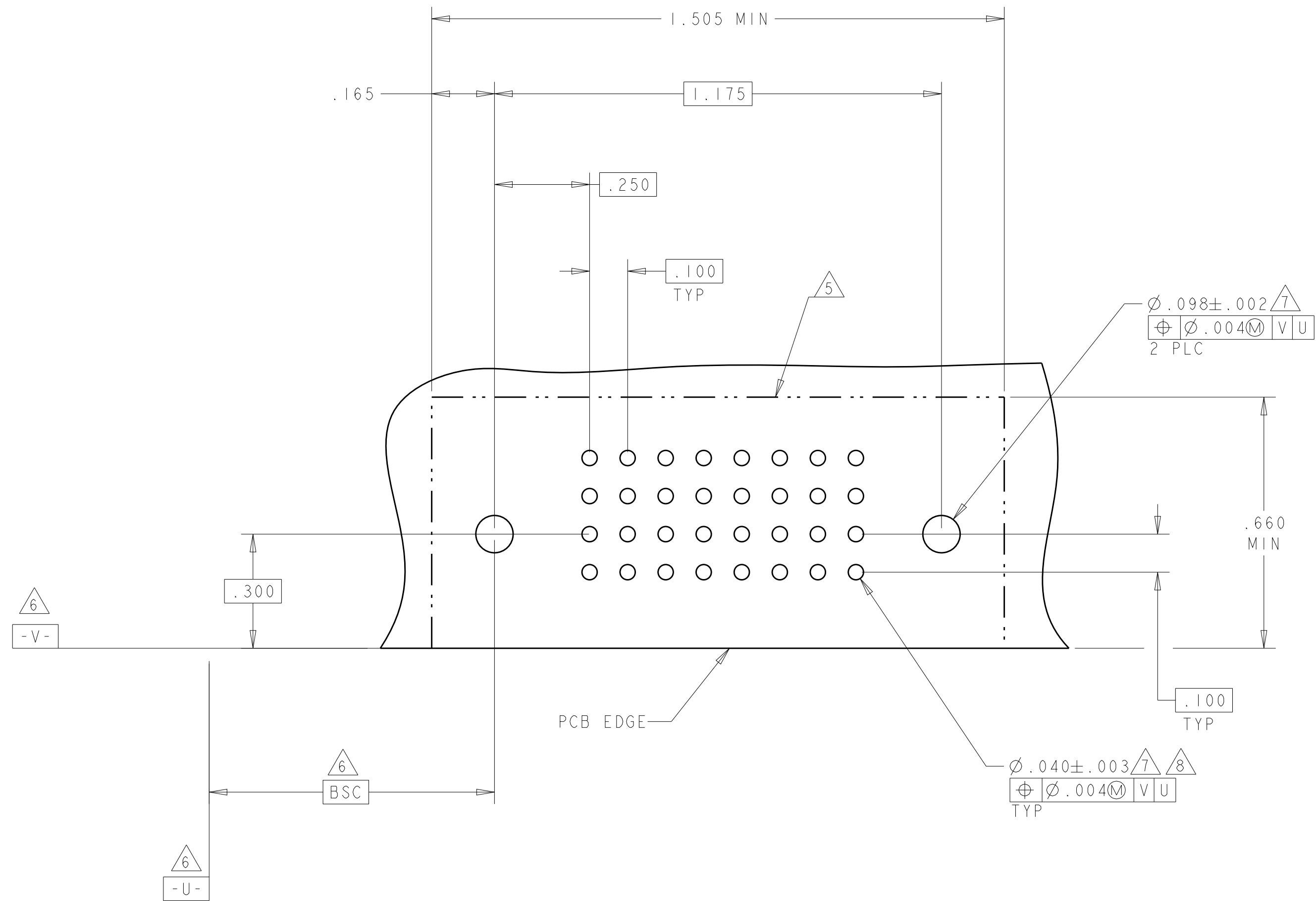


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R. GRZYBOWSKI 02FEB05	TE Connectivity	
DIMENSIONS:		CHK M. PERCHERKE 02FEB05		
INCHES		APVD M. PERCHERKE	NAME RIGHT ANGLE HEADER ASSY W/GUIDES MULTI-BEAM XL	
		PRODUCT SPEC 108-1973		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPLICATION SPEC 114-13038	SIZE CAGE CODE DRAWING NO	
0 PLC ±.01		WEIGHT	A100779C=6450121	
1 PLC ±.01		CUSTOMER DRAWING	SCALE N/A	
2 PLC ±.01			SHEET 11 OF 13	
3 PLC ±.005			REV G2	
4 PLC ±.0020				
ANGLES ±.2°				
FINISH				

PART NUMBER	ROWS		SIGNAL																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
2-6450121-8	D		J	J	J	J	J	J	J	J	J	J	J	J	J	J			
	C		K	K	K	K	K	K	K	K	K	K	K	K	K	K			
	B		N	N	N	N	N	N	N	N	N	N	N	N	N	N		N	
	A		S	S	S	S	S	S	S	S	S	S	S	S	S	S		S	
60S			HD																HD

4805 (3/11)

PART NUMBER	ROWS		SIGNAL								
			1	2	3	4	5	6	7	8	
3-6450121-0	D C B A										
			J	J	J	J	J	J	J	J	
			K	K	K	K	K	K	K	K	
			N	N	N	N	N	N	N	N	
			S	S	S	S	S	S	S	S	
32S											

4805 (3/11)

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