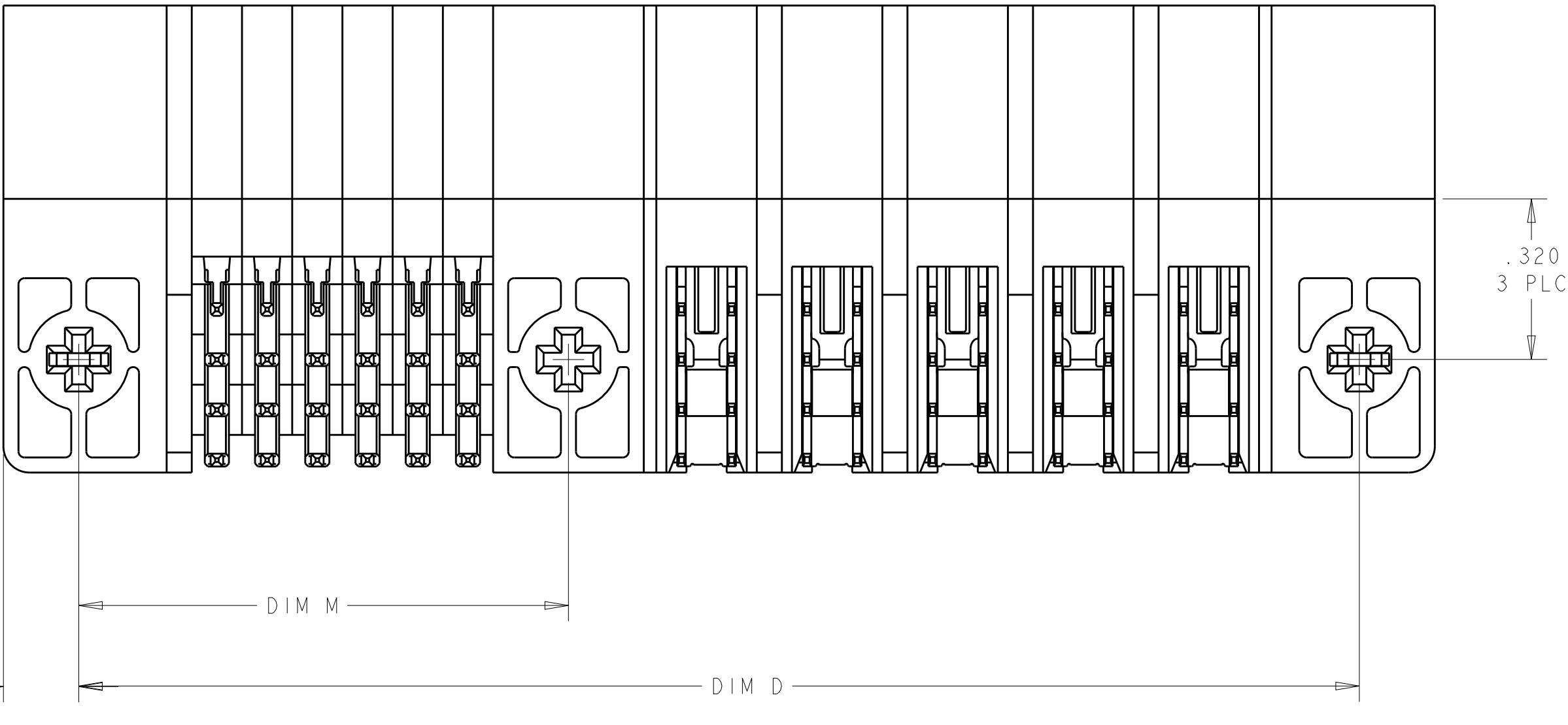
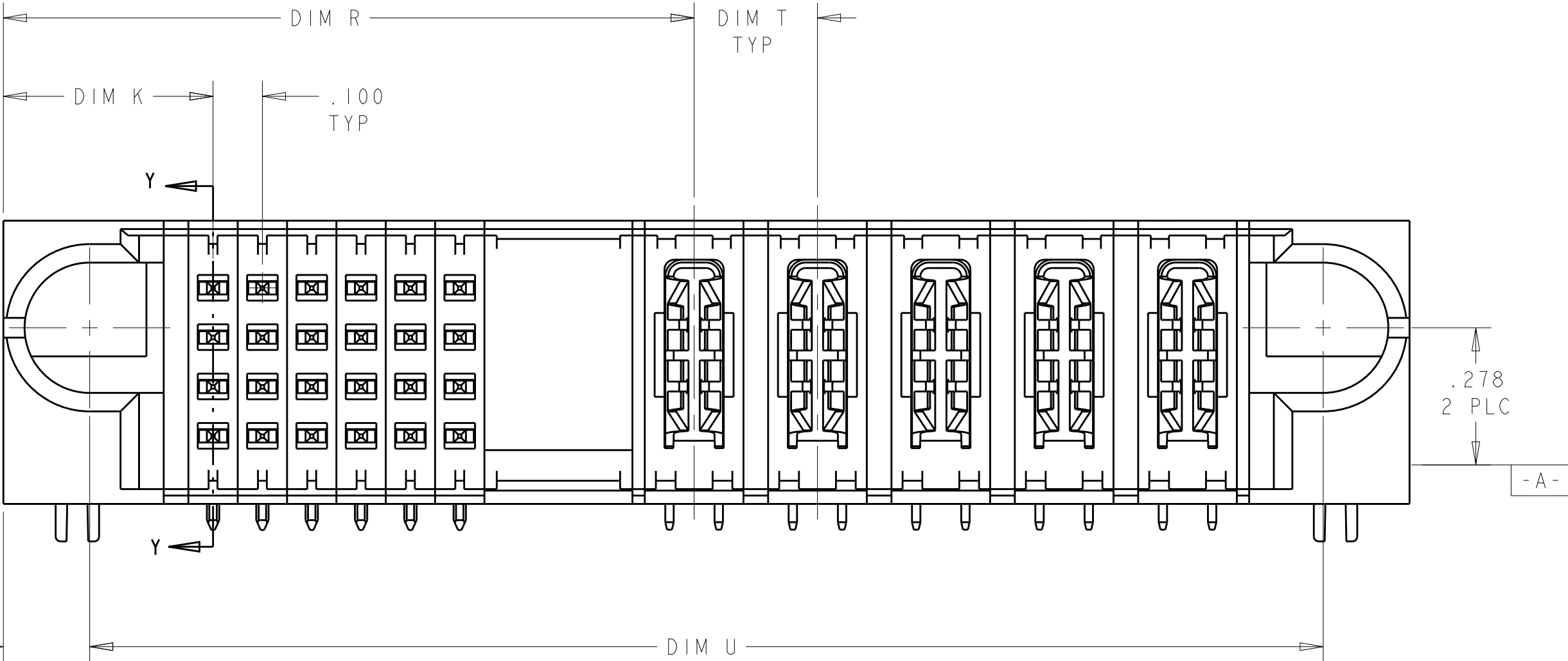
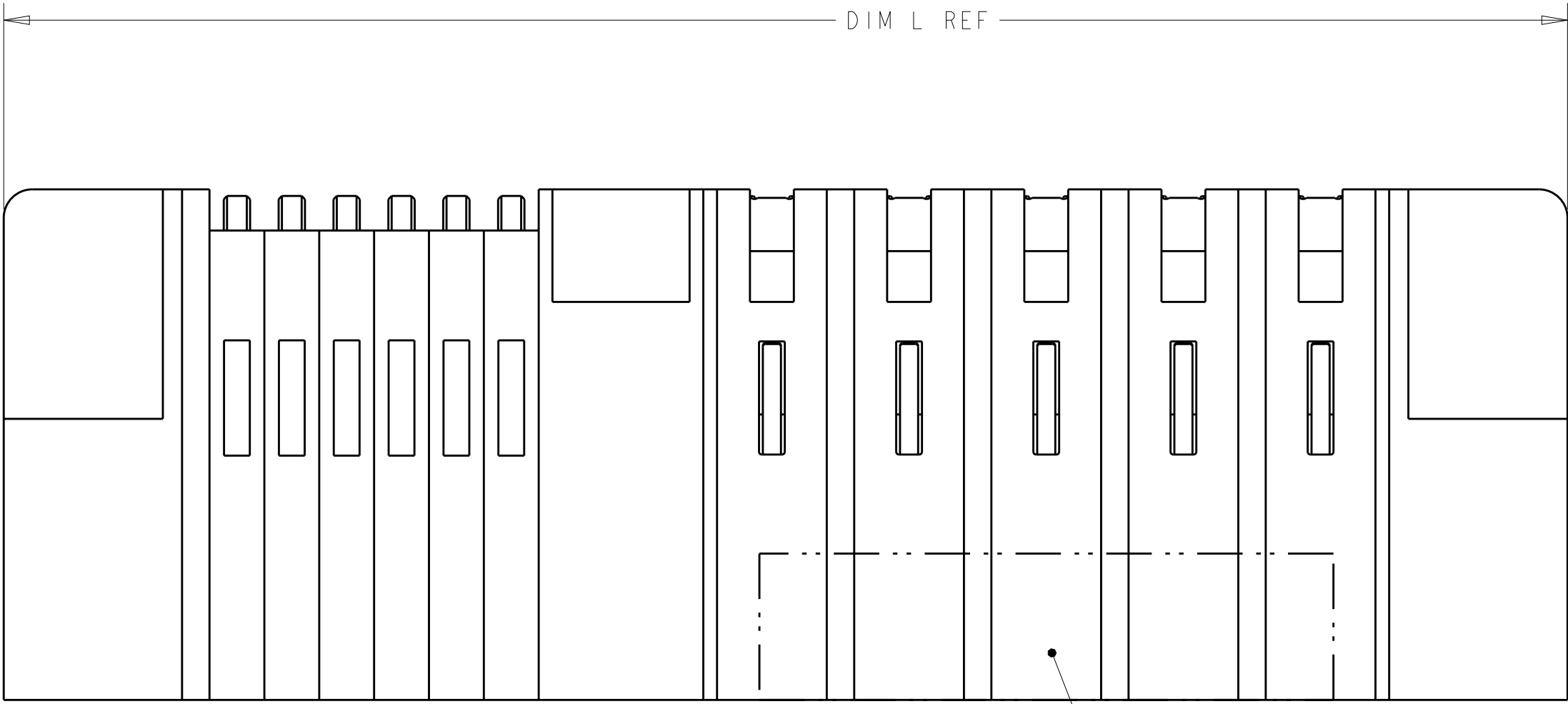
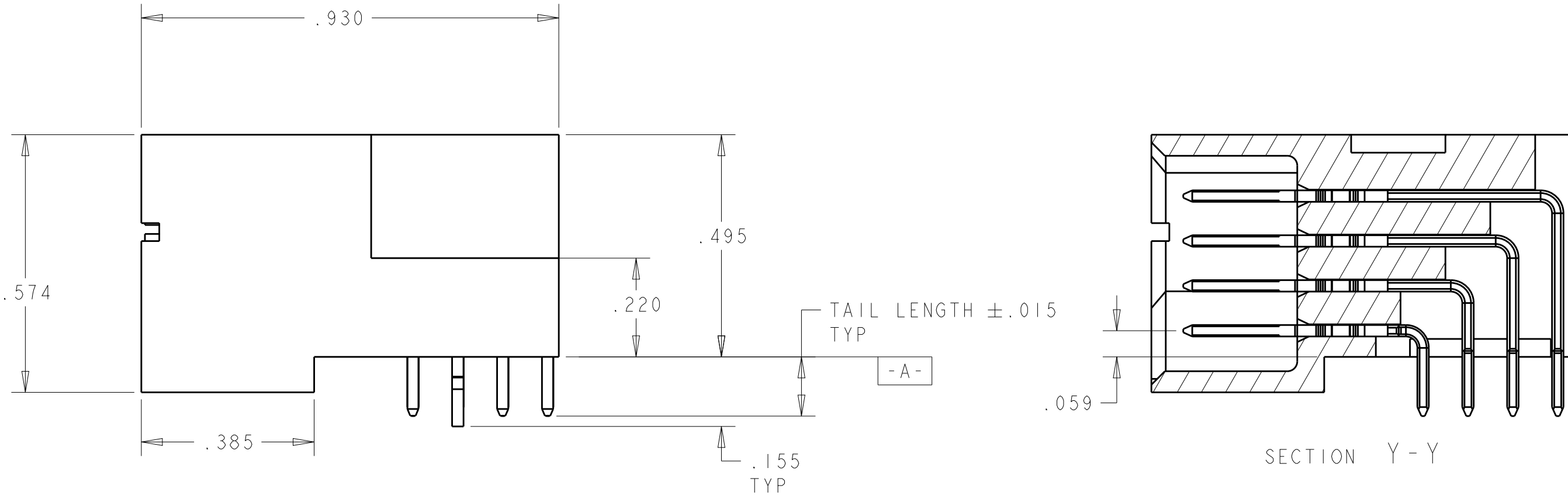


LOC	DIST	REVISIONS						
		P	LTR	DESCRIPTION	DATE	DWN	APVD	
ES	00		G	ADD NEW DASH NUMBER 2-8	15DEC2014	CZ	SZ	
			G1	ADD NEW DASH NUMBER 2-9	13FEB2015	CZ	SZ	
			G2	REV PER ECO-17-013298	11SEP2017	WY	SZ	



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



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

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

TOLERANCES UNLESS
OTHERWISE SPECIFIED:

±"
±.01
±.005
±.0020

±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

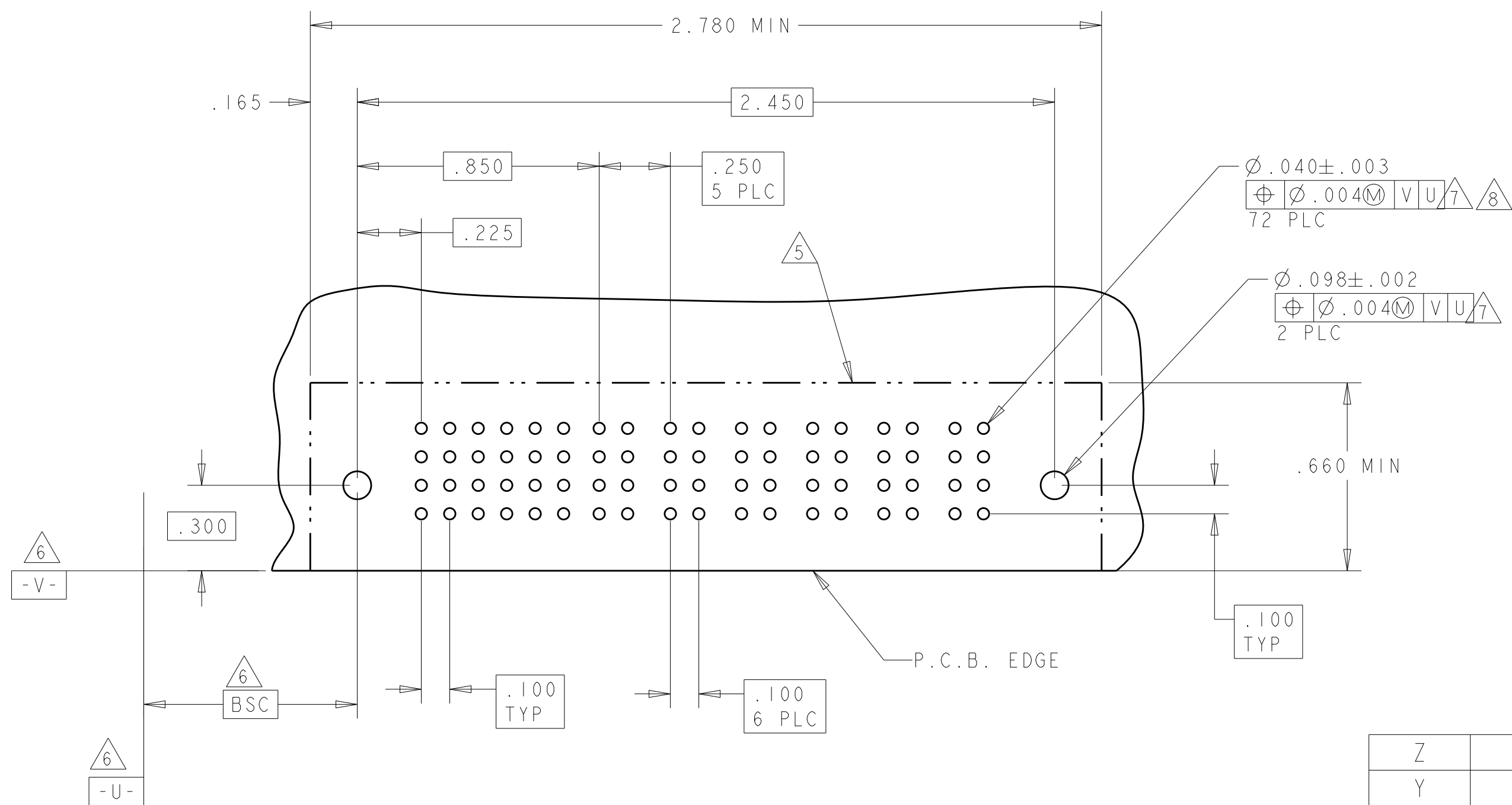
TE Connectivity

4805 (3/11)

[illegible]

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

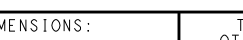
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6450121-2 & 2-6450121-4 RECOMMENDED PCB LAYOUT

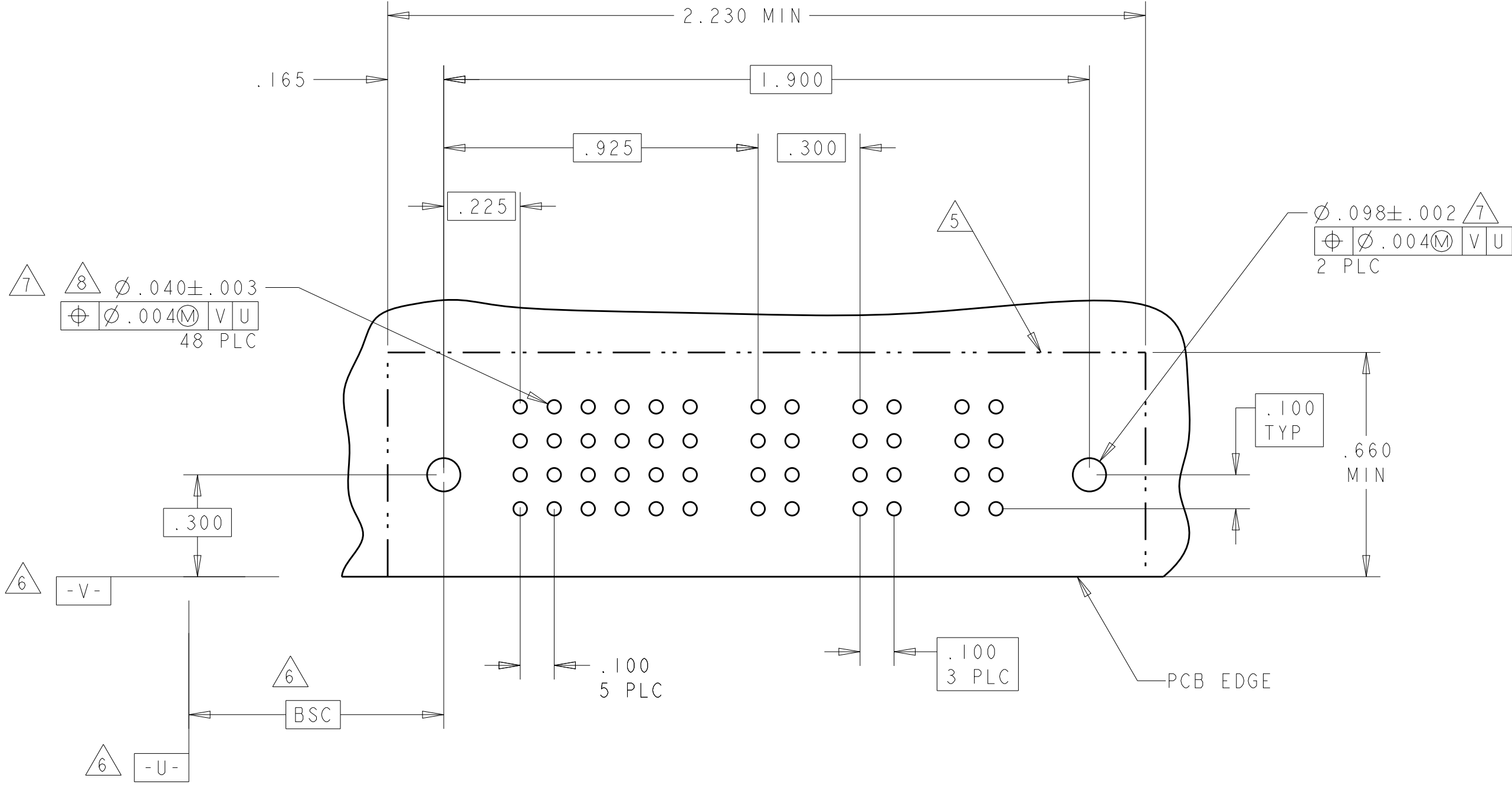
Z	STD	.090	D
Y	STD	.090	C
R	STD	.090	B
O	STD	.090	A
E	MLBF	.135	D
F	MLBF	.135	C
G	MLBF	.135	B
H	MLBF	.135	A
J	STD	.135	D
K	STD	.135	C
N	STD	.135	B
S	STD	.135	A
CODE	MATING SEQUENCE	TAIL LENGTH	ROW
SIGNAL CONTACT			

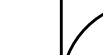
PA	.090
PM	.135
CODE	TAIL LENGTH
POWER CONTACT	

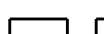
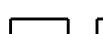
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWA D. GRZYBOWSKI 02FEB05		 TE Connectivity	
		CHG M. PERCHERKE 02FEB05			
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
		Ø PLC ±.01 P PLC ±.01 P PLC ±.005 P PLC ±.0020 ANGLES ±.0°		RIGHT ANGLE HEADER ASSY W/GUIDES MULTI-BEAM XL -	
		PRODUCT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

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

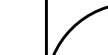
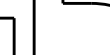
PART NUMBER	ROWS		SIGNAL						POWER					
			1	2	3	4	5	6	P1	P2	P3			
6450121-3	D		J	J	J	J	J	J						
	K		K	K	K	K	K	PM					PM	PM
	N		N	N	N	N	N							
	S		S	S	S	S	S							
24S + 3ACP														

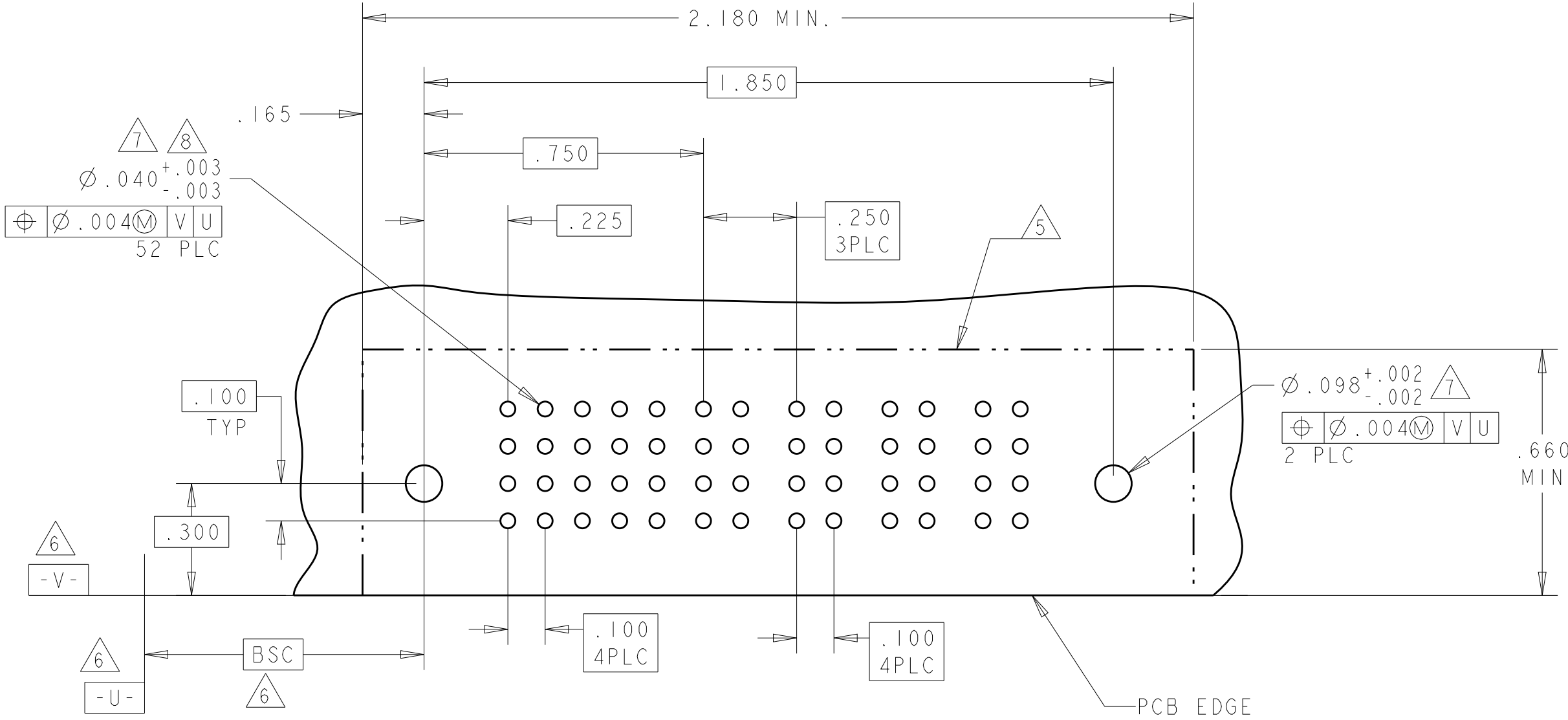
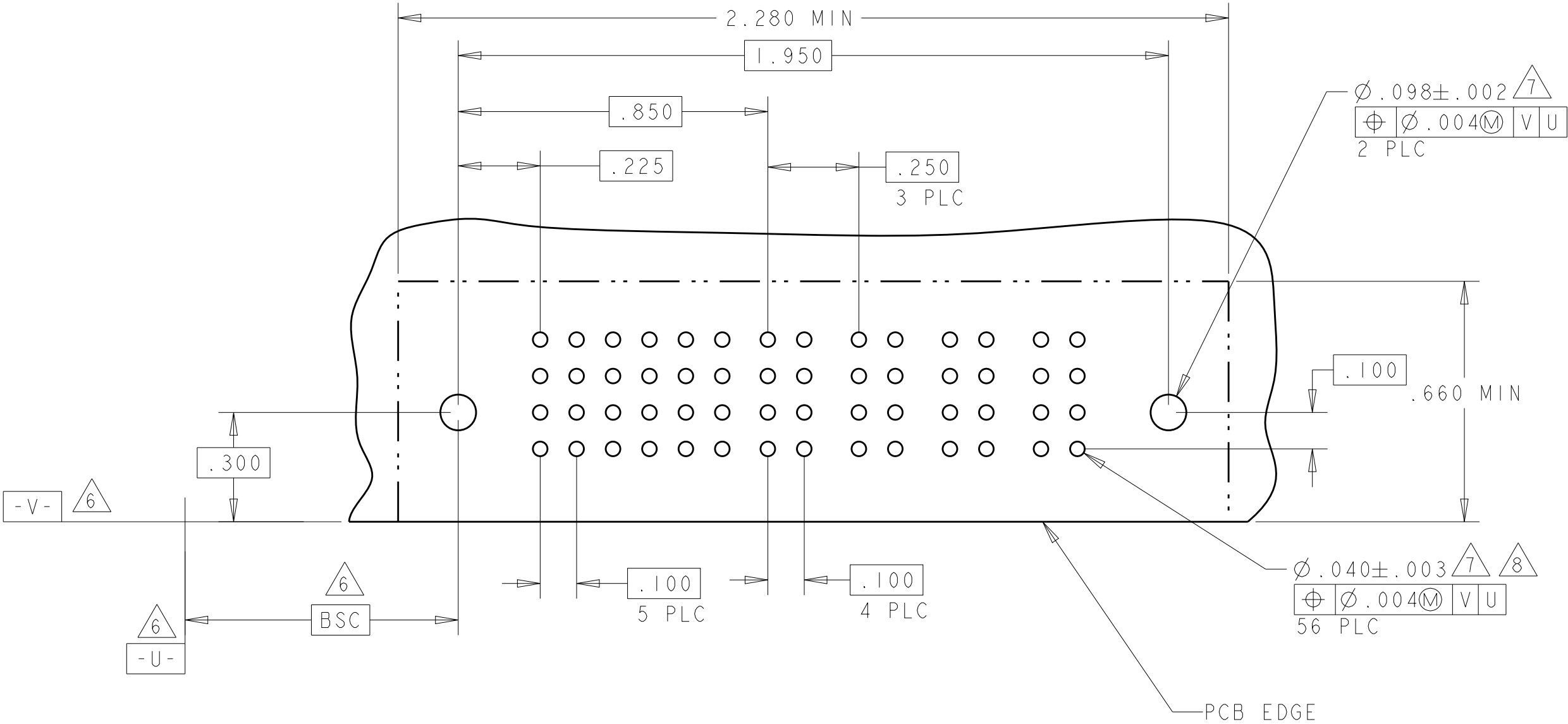


PART NUMBER	ROWS		SIGNAL					POWER				
			1	2	3	4	5	P1	P2	P3	P4	
6450121-4	D		J	J	J	J	J	PM	PM	PM	PM	
	C		K	K	K	K	K					
	B		N	N	N	N	N					
	A		S	S	S	S	S					
												
20S + 4P												

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

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	
	K		K	K	K	K	K						
	N		N	N	N	N	N						
	S		S	S	S	S	S						
24S + 4P													



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

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DWN
R.GRZYBOWSKI
CHK
M.PERCHEKKE
APVD
M.PERCHEKKE

02FEB05
02FEB05

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

02FEB05
108-1973
APPLICATION SPEC
114-13038
WEIGHT
-

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

SIZE
A1

CAGE CODE
00779

DRAWING NO
C=6450121

RESTRICTED TO
-

CUSTOMER DRAWING

SCALE
N/A

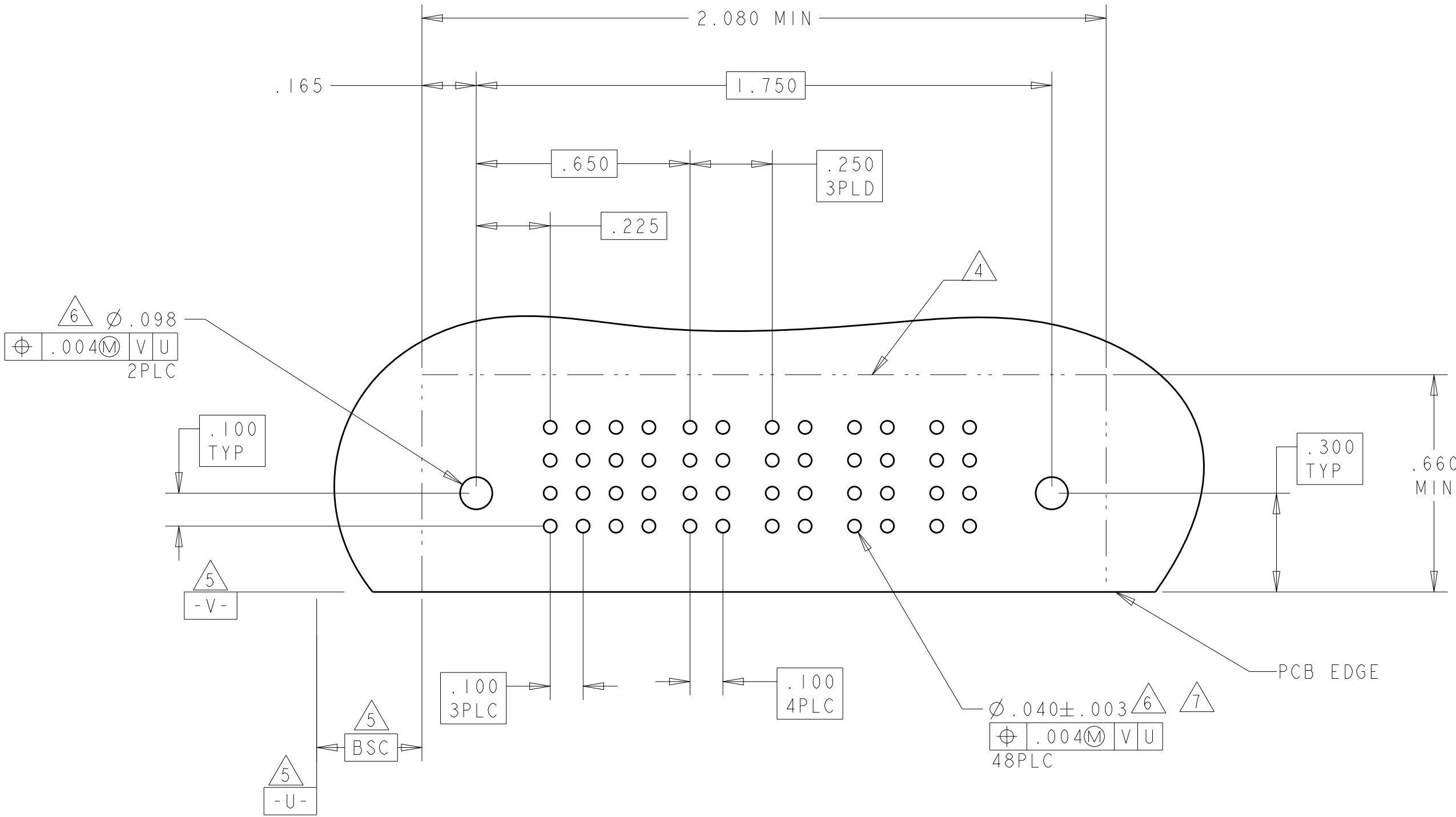
SHEET
4

OF
13

REV
G2

[illegible]4805 (3/11)

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

4805 (3/11)

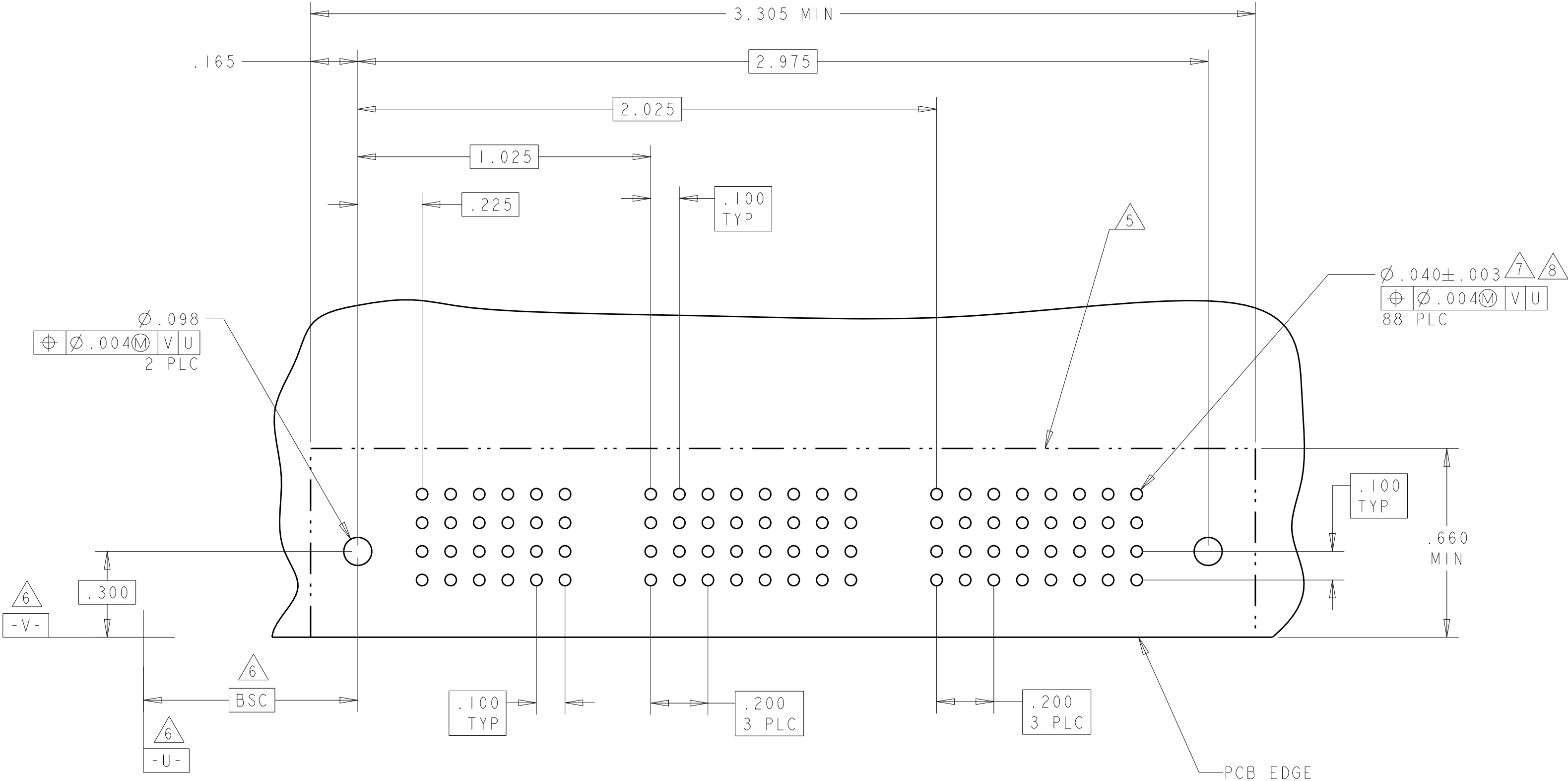
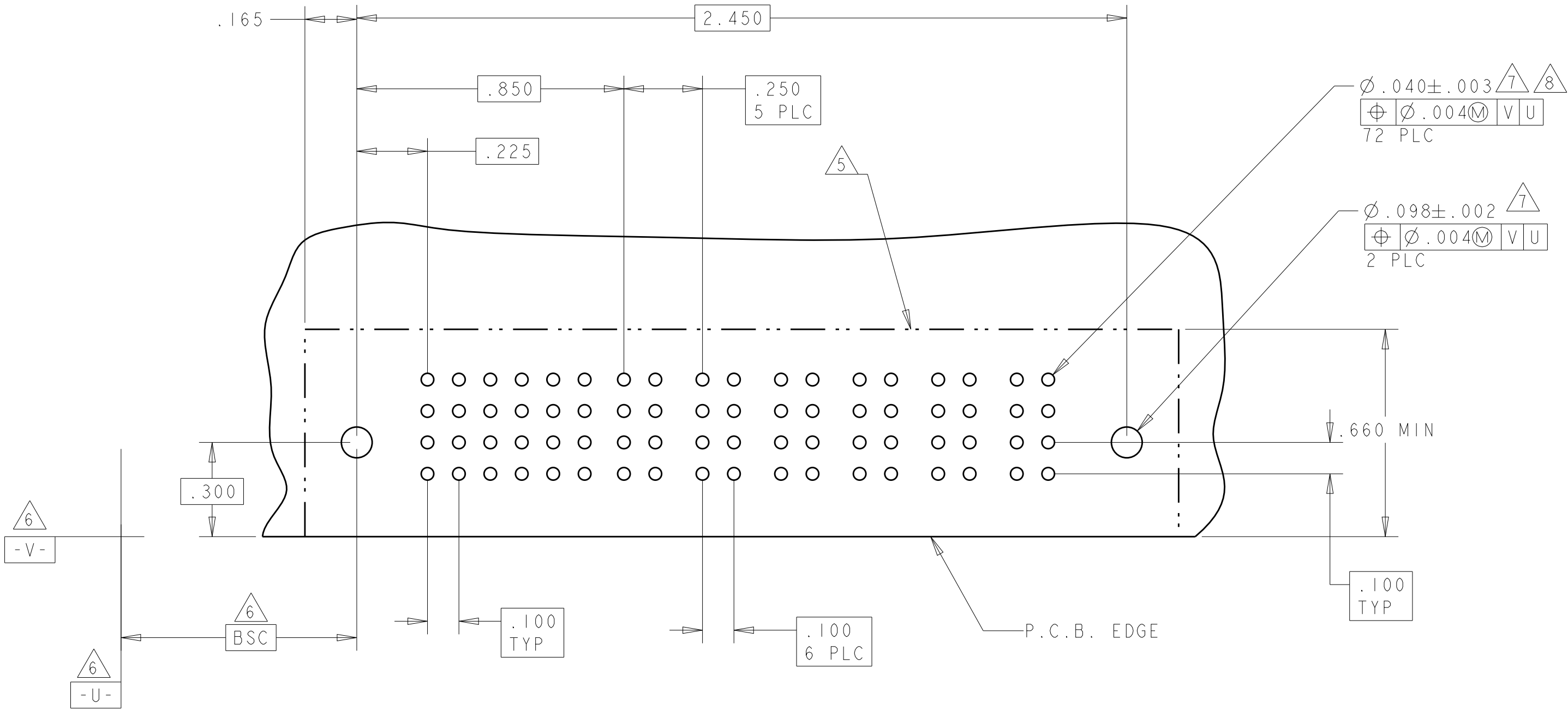
LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-	-	SEE SHEET 1	-	-	-

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

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	HD	J	J	J		J		PM	PM	PM	PM			PM	PM	PM	PM	HD
			K	K	K		K												
			N	N	N		N												
24S + 10P			S	S	S		S												

NO CONTACTS LOADED

NO CONTACTS LOADED



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DWN

R. GRZYBOWSKI

02FEB05

CHK

M. PERCHERKE

02FEB05

APVD

M. PERCHERKE

-

DIMENSIONS:

INCHES

0 PLC

1 PLC

2 PLC

3 PLC

4 PLC

ANGLES

FINISH

±"

±.01

±.005

±.0020

±2°

-

TOLERANCES UNLESS OTHERWISE SPECIFIED:

PRODUCT SPEC

108-1973

APPLICATION SPEC

114-13038

WEIGHT

-

CUSTOMER DRAWING

NAME

RIGHT ANGLE HEADER ASSY W/GUIDES MULTI-BEAM XL

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A1

00779

C=6450121

-

SCALE

N/A

SHEET

7

OF

13

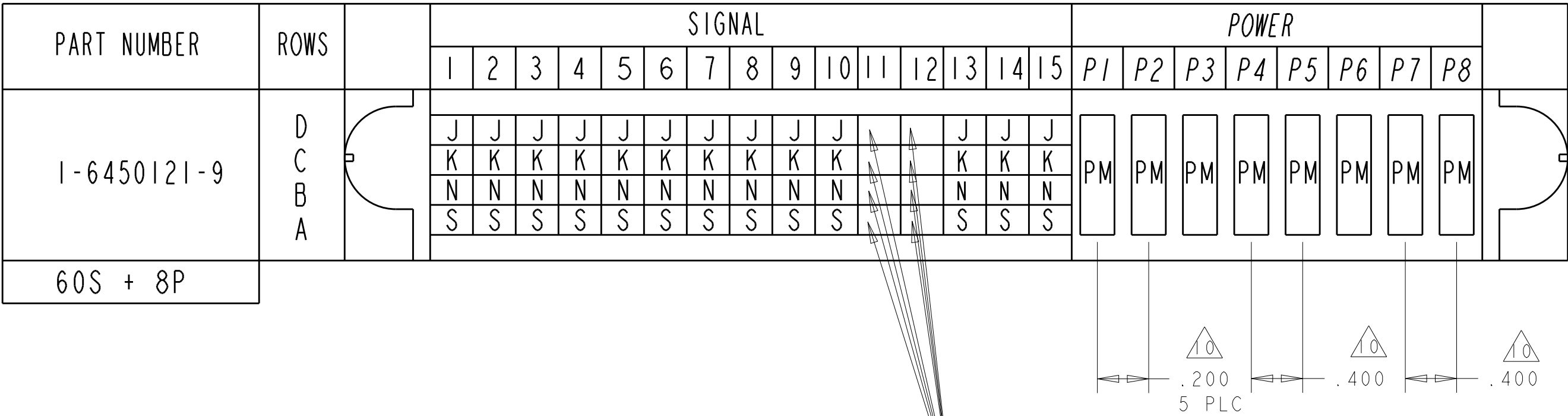
REV

G2

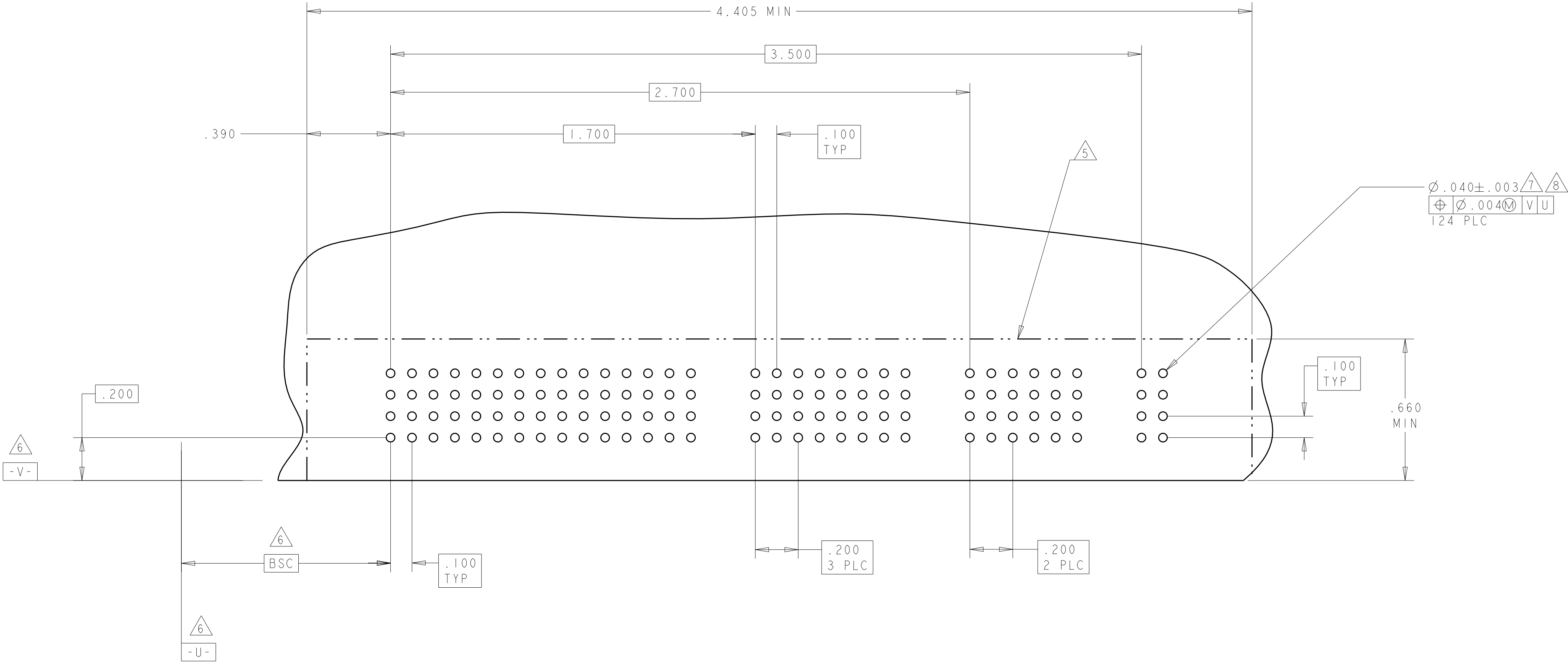
TE

TE Connectivity

LOC	DIST	REVISIONS				
		P	LTR	DESCRIPTION	DATE	DWN
ES	00	-	-	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

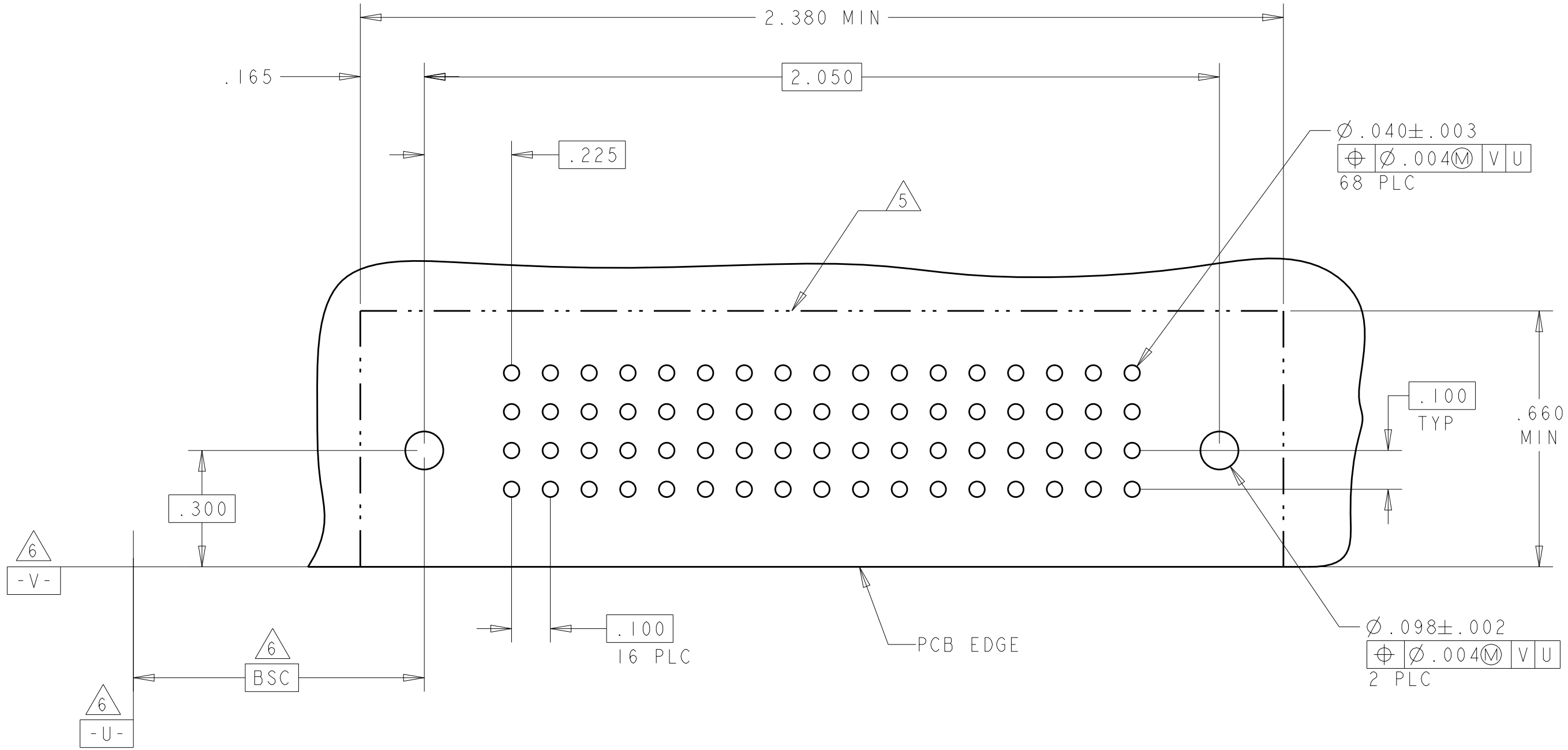
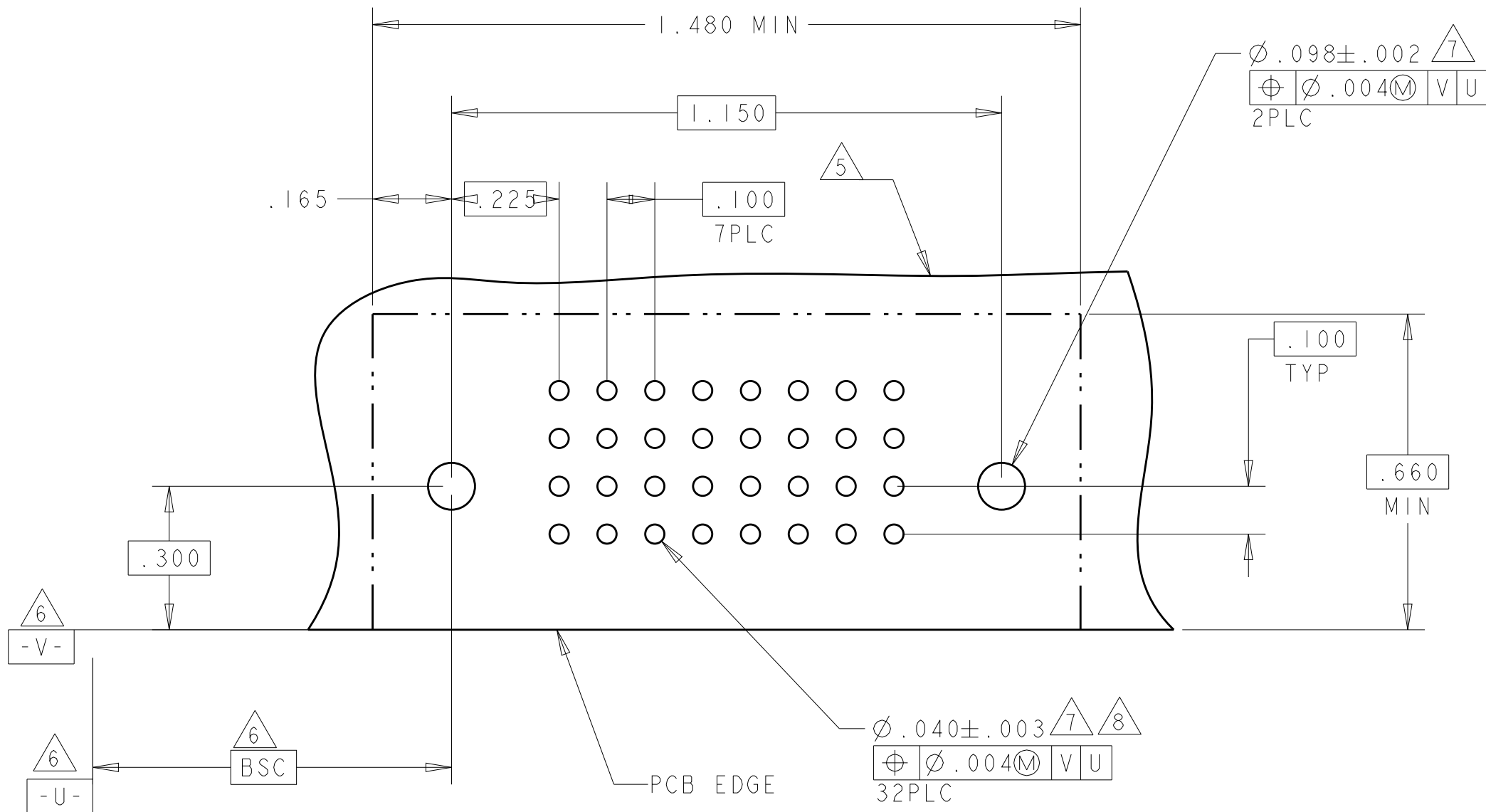
4805 (3/11)

LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
ES	00	-	-	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 02FEB05
CHK: M. PERCHERKE 02FEB05
APVD: M. PERCHERKE

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

DIMENSIONS: INCHES

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

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

MATERIAL: -

WEIGHT: -

CUSTOMER DRAWING

SIZE: A1

CAGE CODE: 100779

DRAWING NO: 6450121

RESTRICTED TO: -

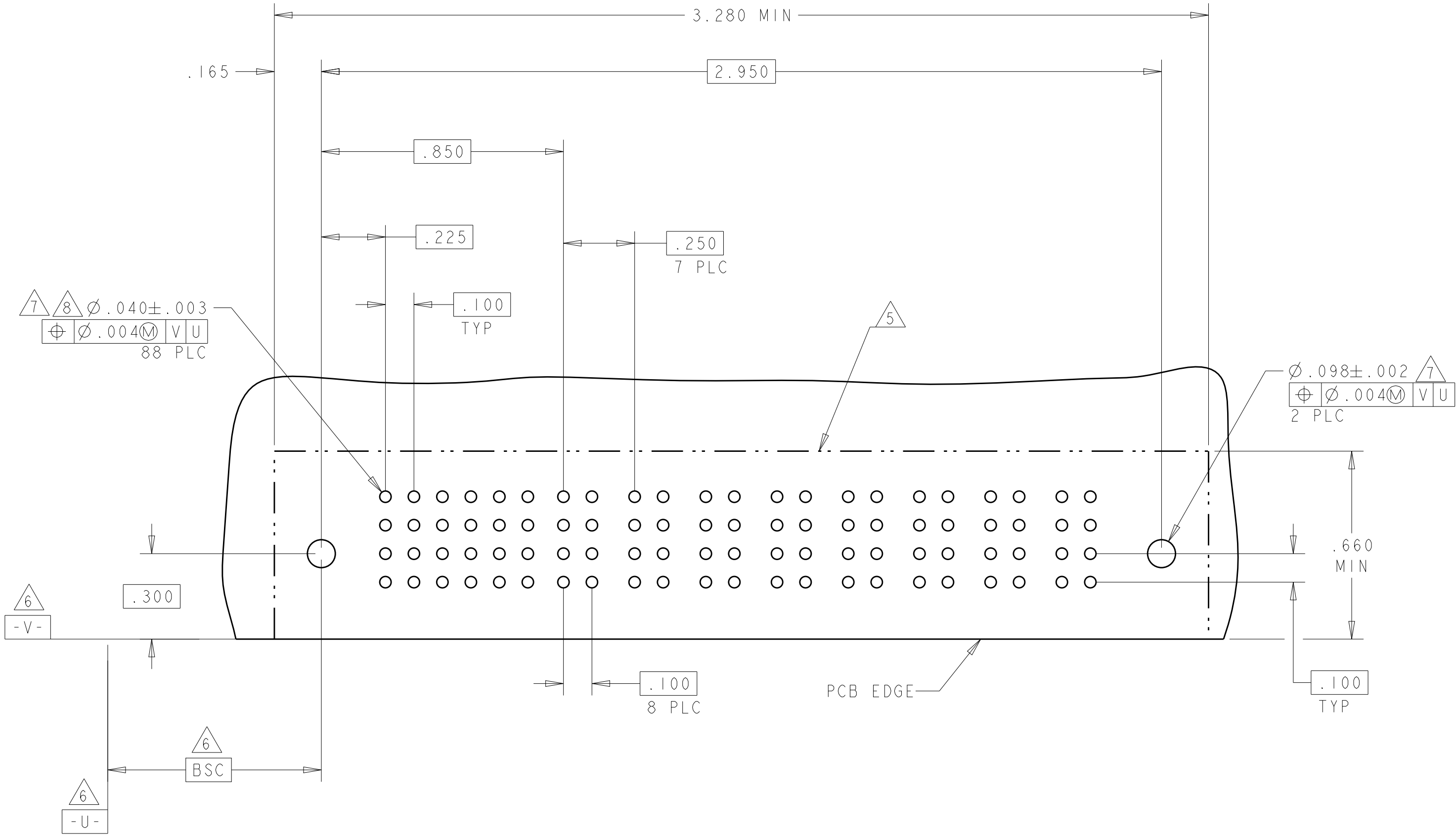
SCALE: N/A

SHEET: 10 OF 13

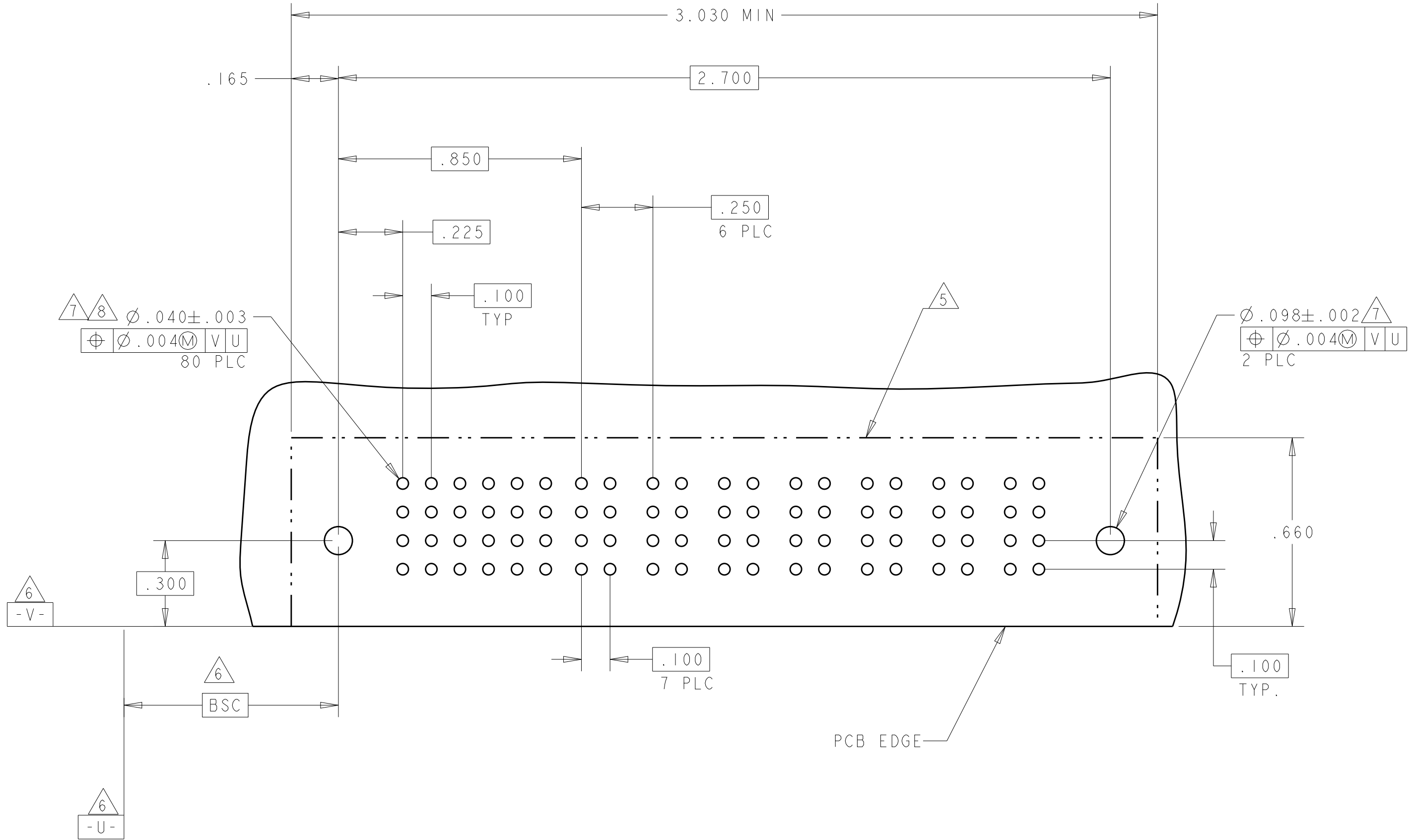
REV: G2

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
CHK
M.PERCHERKE
APVD
M.PERCHERKE

02FEB05
02FEB05
-

DIMENSIONS:
INCHES

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

TOLERANCES UNLESS
OTHERWISE SPECIFIED:

PRODUCT SPEC
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
11

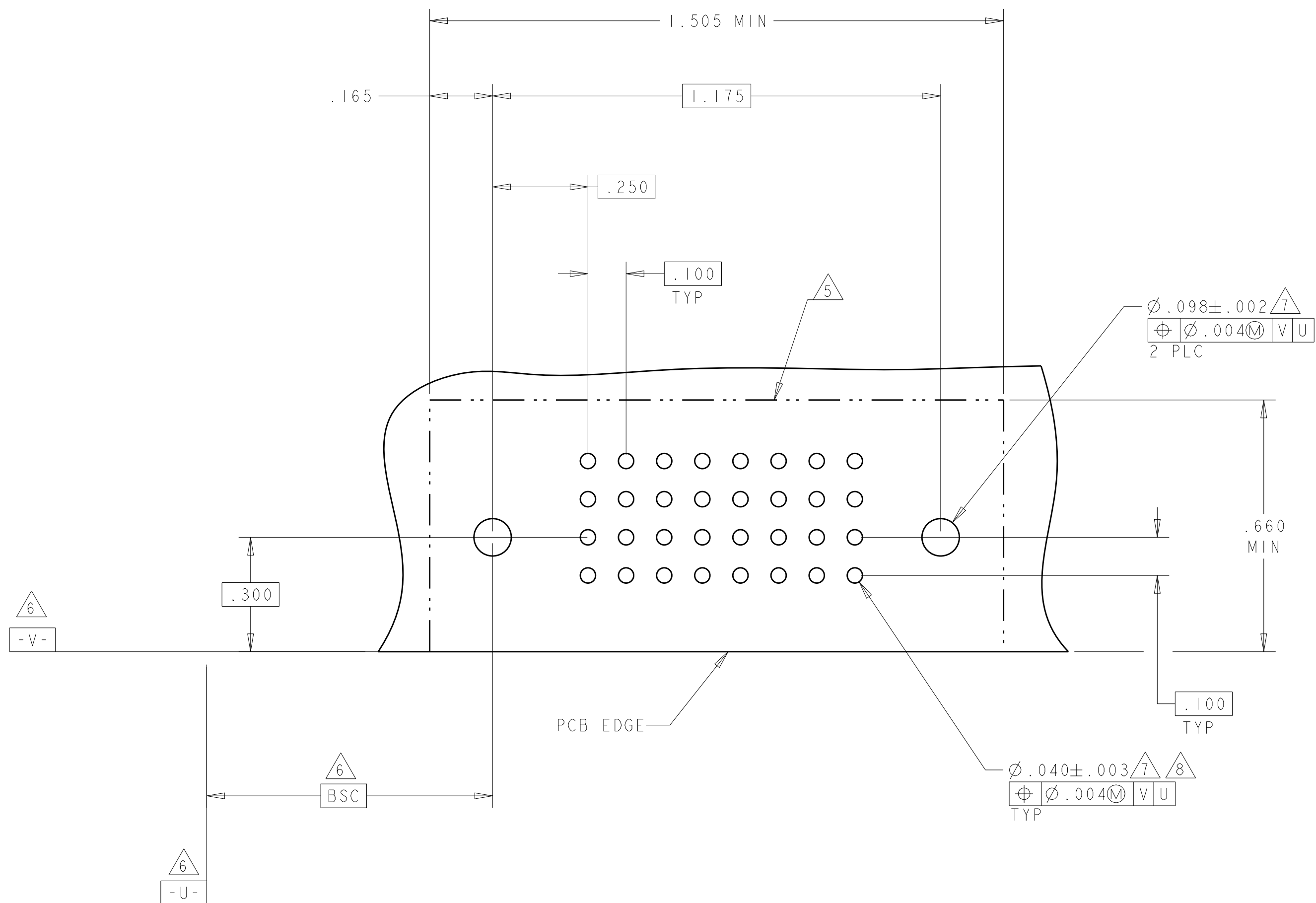
OF
13

REV
G2

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	P7	P8	P9	P10	
2-6450121-7	D		J	J	J	J	J	E		PM		PM		PM		PM		PM	
	K		K	K	F	K	K												
	N		N	N	G	N	N												
	S		H	S	H	S	S												
24S + 10P																			

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)