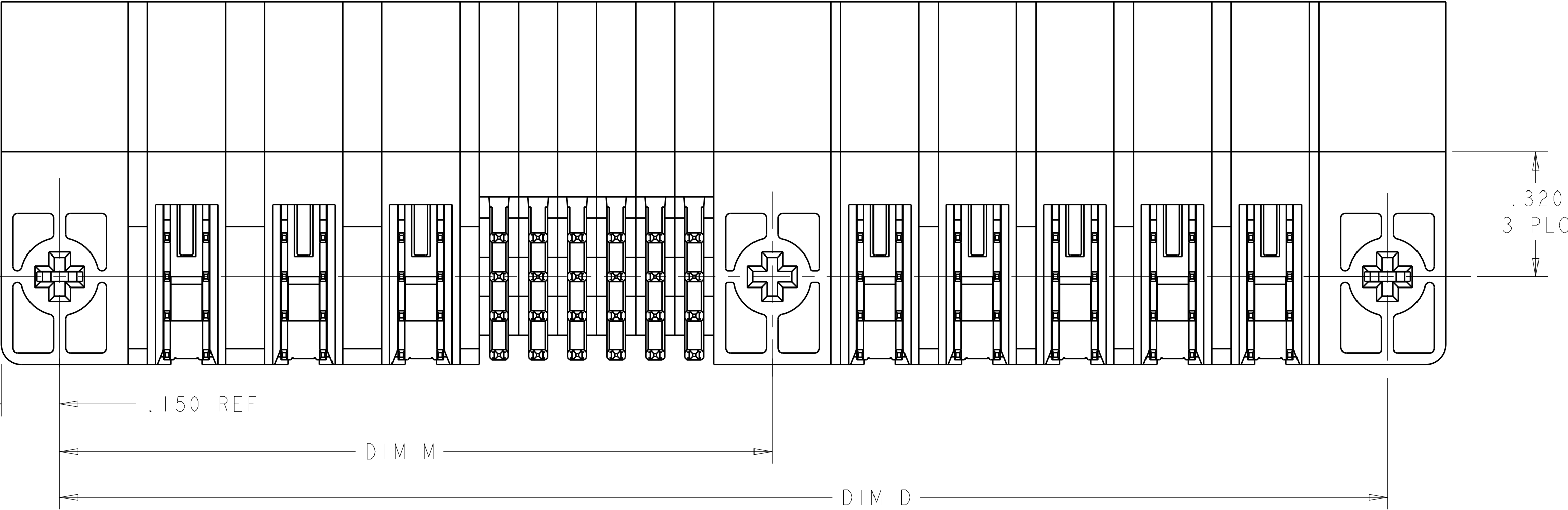
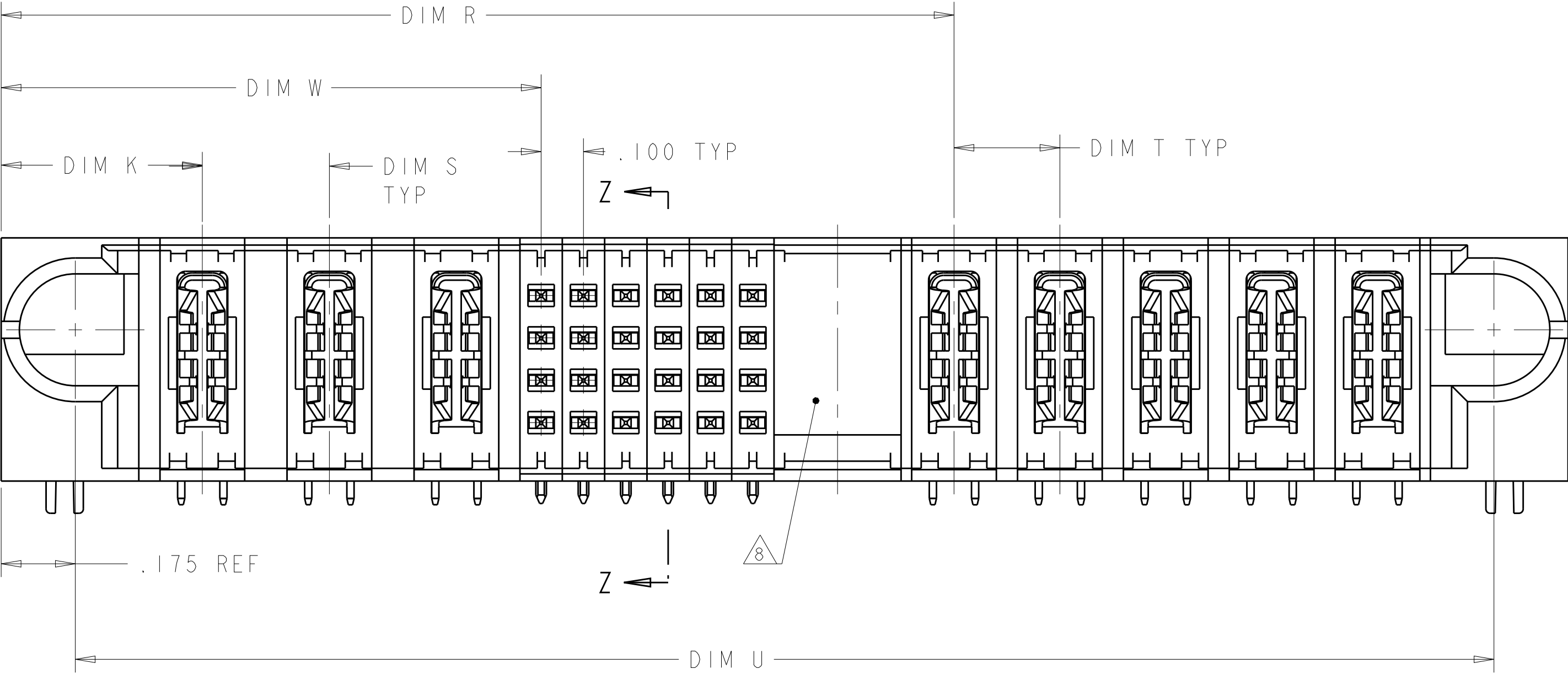
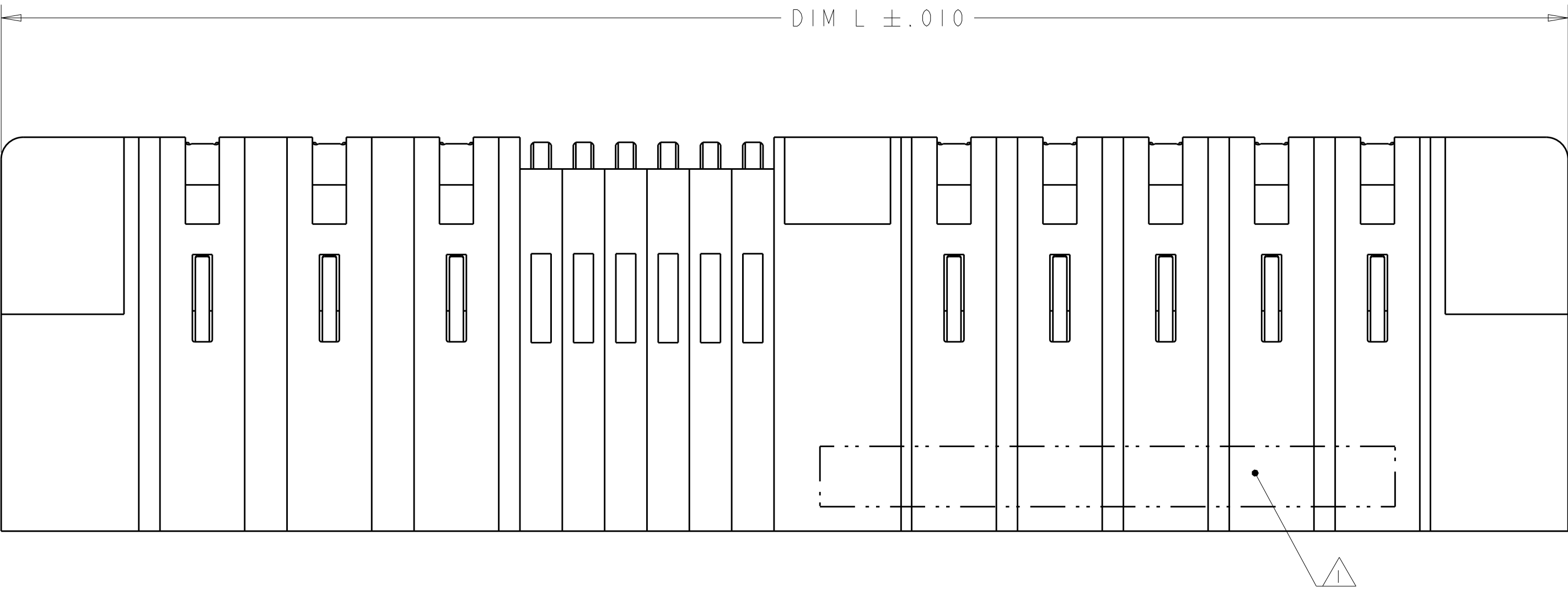
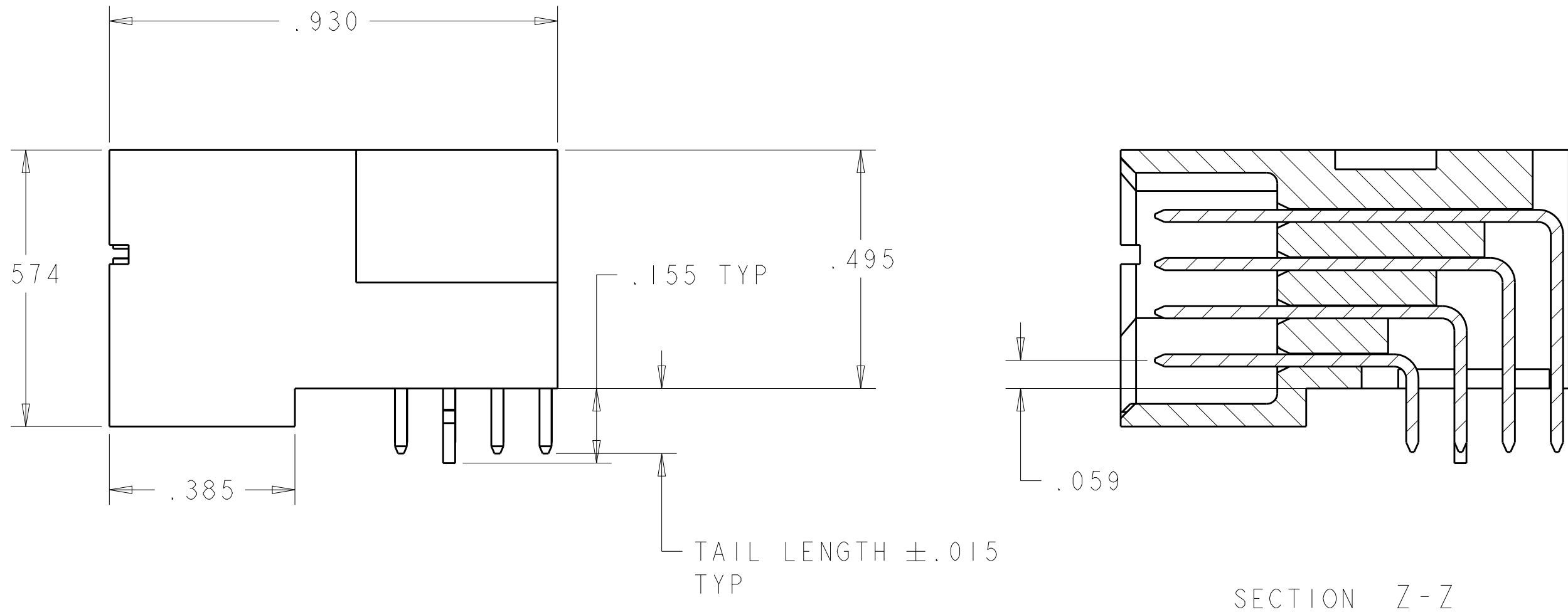


LOC	DIST	REVISIONS						
		P	LTR	DESCRIPTION	DATE	DWN	APVD	
ES	00		M1	ADD NEW DASH NUMBER 7-0	08FEB2014	AL	SZ	
			M2	ADD NEW DASH NUMBER	21MAR2014	AL	SZ	

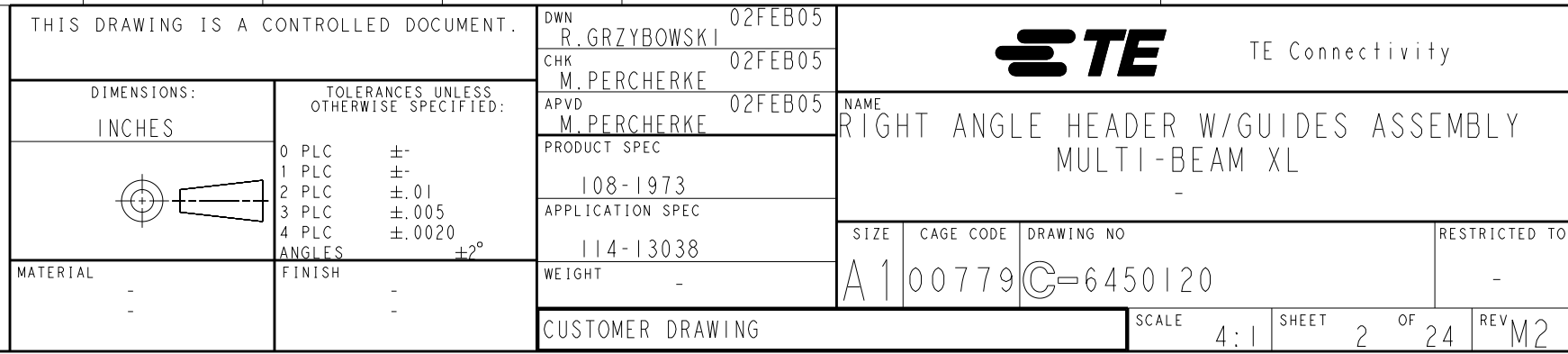


- 1 "AMP" PART NUMBER AND DATE CODE TO BE MARKED IN AREA SHOWN. PARTS UNDER 2.500 LONG MAY BE MARKED ON BOTH SIDES.
- 2 MATERIAL: HOUSING - GLASS FILLED HIGH TEMP THERMO PLASTIC, UL 94 V-0
SIGNAL CONTACT - COPPER ALLOY
POWER CONTACT - HIGH CONDUCTIVITY COPPER ALLOY.
- 3 CONTACT FINISHE:
NOBLE METAL PLATED ON THE CONTACT FUNCTIONAL AREA OF POWER AND SIGNAL CONTACTS.
- 4 MECHANICAL CONNECTOR KEEP OUT ZONE. WHEN PLACING CONNECTORS END-TO-END, ALLOW ADDITIONAL 0.1 CLEARANCE BETWEEN CONNECTORS FOR LATCH ACTIVATION.
- 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 DIA HOLE.
- 8 OPTIONAL CENTER MODULE WITH Ø.150 THRU HOLE OR HOLD DOWN FEATURE.

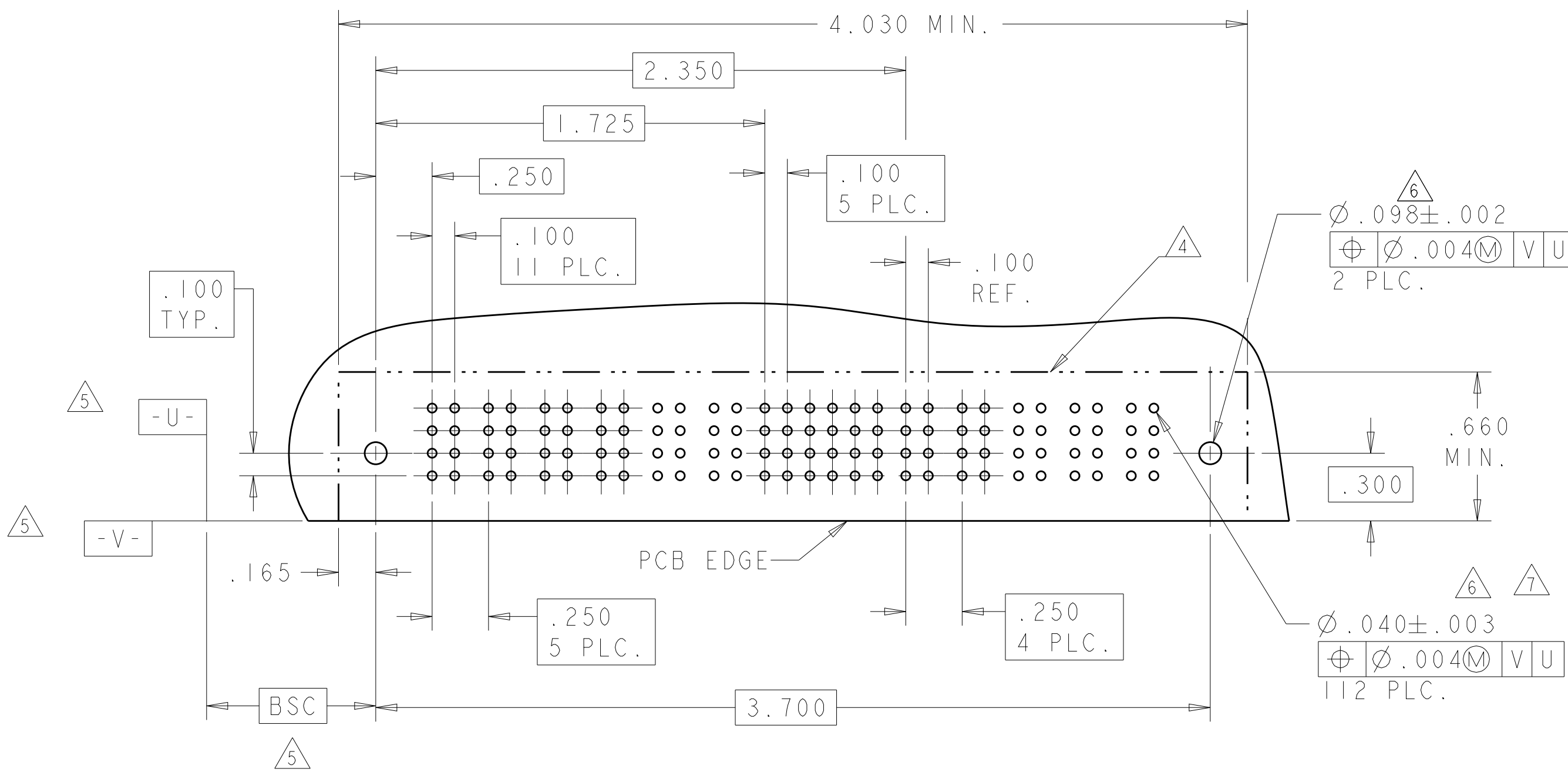


SECTION Z-Z

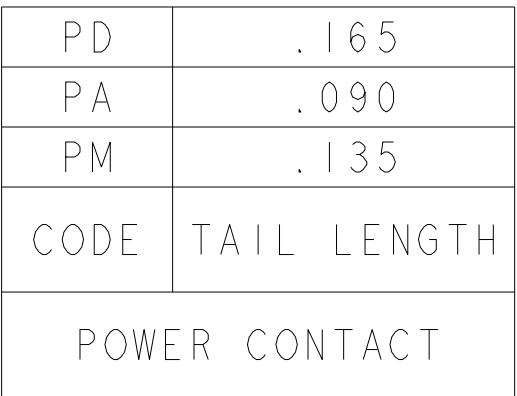
1.700	.250	.250	1.300	.875	1.750	-	2.050	.450	2P+16S+2P	7-6450120-1
2.700	.200	-	2.600	1.425	2.750	-	3.050	.450	5P + 44S + 1P	7-6450120-0
1.100	-	-	1.000	.625	1.150	-	1.450	.450	1P+12S+1P	6-6450120-9
1.000	-	-	.900	.625	1.050	-	1.350	.450	1P + 8S + 1P	6-6450120-8
2.850	.300	.200	2.125	1.825	2.900	-	3.200	.450	7HDP + 8S + 3ACP	6-6450120-7
2.650	.250	.200	1.550	.875	2.700	-	3.000	.450	2P + 24S + 6P	6-6450120-6
2.300	.300	.250	1.950	1.275	2.350	-	2.650	.475	3ACP + 24S + 2P	6-6450120-5
3.100	.250	.250	2.250	1.875	3.150	-	3.450	.450	6P + 12S + 4P	6-6450120-4
2.400	.250	.250	1.800	1.125	2.450	-	2.750	.475	3P + 24S + 3P	6-6450120-1
3.000	.300	.250	1.650	1.325	3.050	-	3.350	.475	3ACP + 8S + 6P	6-6450120-0
1.900	.300	.250	1.550	1.275	1.950	-	2.250	.475	3ACP + 8S + 2P	5-6450120-9
2.800	-	-	-	0.375	2.850	-	3.150	-	100S	5-6450120-8
2.700	.250	.250	2.100	1.125	2.750	-	3.050	.450	3P + 36S + 3P	5-6450120-7
1.100	-	-	1.000	.625	1.150	-	1.450	.450	1P + 12S + 1P	5-6450120-6
3.250	.300	.250	2.525	2.175	3.300	-	3.600	.450	7P + 8S + 3ACP	5-6450120-5
2.400	.250	.250	1.550	.875	2.450	-	2.750	.450	2P + 24S + 4P	5-6450120-3
5.400	.300	.300	2.875	2.175	5.450	-	5.750	.475	6P + 24S + 9P	5-6450120-2
3.800	.250	.300	1.875	1.375	3.850	-	4.150	.450	4P + 16S + 7ACP	5-6450120-0
1.600	.250	.250	1.250	.875	1.650	-	1.950	.450	2P + 12S + 2P	4-6450120-9
2.900	.250	.250	2.050	1.375	2.950	-	3.250	.450	4P + 24S + 4P	4-6450120-8
1.900	.250	.250	1.550	0.875	1.950	-	2.250	.450	2P + 24S + 2P	4-6450120-7
2.000	.250	.250	1.400	1.125	2.050	-	2.350	.450	3P + 8S + 3P	4-6450120-6
2.900	.250	.250	3.550	2.875	5.950	-	6.250	.450	10P + 24S + 10P	4-6450120-5
3.700	.200	.300	2.700	2.025	3.750	-	4.050	.450	8P + 24S + 4ACP	4-6450120-4
2.900	.300	.250	2.050	1.575	2.950	-	3.250	.475	4ACP+16S+4P	4-6450120-3
4.375	.250	.300	3.375	2.375	4.425	3.100	4.725	.450	8P + 24S + 1M + 4ACP	4-6450120-2
4.100	.300	.250	2.250	1.575	4.150	-	4.450	.475	4ACP + 24S + 8P	4-6450120-0
3.800	.250	.250	3.450	.875	3.850	-	4.150	.450	2P + 100S + 2P	3-6450120-6
4.600	.250	.250	3.250	1.875	4.650	-	4.950	.450	6P + 52S + 6P	3-6450120-5
5.100	.250	.250	3.500	2.175	5.150	-	5.450	.450	7P + 48S + 7P	3-6450120-4
3.500	.250	.300	2.775	2.375	3.550	-	3.850	.450	8P + 12S + 3ACP	3-6450120-3
4.000	.200	.200	2.700	1.825	4.050	-	4.350	.450	7HDP + 32S + 7HDP	3-6450120-0
3.900	.250	.250	2.550	1.875	3.950	-	4.250	.450	6P + 24S + 6P	2-6450120-7
5.200	.300	.250	2.350	1.625	5.250	-	5.550	.475	4ACP + 24S + 12P	2-6450120-6
2.500	.250	.250	2.150	1.425	2.550	-	2.850	.450	4P + 24S + 2P	2-6450120-5
3.600	.250	.250	2.500	1.625	3.650	-	3.950	.450	5P + 32S + 5P	2-6450120-4
2.500	.250	.250	2.150	.875	2.550	-	2.850	.450	2P + 48S + 2P	2-6450120-3
4.500	.300	.250	1.650	.975	4.550	-	4.850	.475	2ACP + 24S + 12P	2-6450120-2
2.850	.250	.250	2.000	1.125	2.900	-	3.200	.450	3P + 32S + 4P	2-6450120-1
3.950	.200	.250	2.125	1.025	4.000	-	4.300	.425	3P + 40S + 8P	2-6450120-0
1.400	-	-	1.300	.625	1.450	-	1.750	.450	1P + 24S + 1P	1-6450120-6
2.000	.300	.300	1.575	.975	2.050	-	2.350	.475	2P + 20S + 2P	1-6450120-4
1.200	-	-	1.100	.625	1.250	-	1.550	.450	1P + 16S + 1P	1-6450120-3
2.400	.250	.250	1.800	1.125	2.450	-	2.750	.450	3P + 24S + 3P	1-6450120-2
2.675	.200	.200	2.375	1.650	2.725	-	3.025	.450	5P + 24S + 2P	1-6450120-1
4.350	.250	.250	3.500	2.625	4.400	-	4.700	.450	9P + 32S + 4P	1-6450120-0
4.150	.250	.250	2.800	2.125	4.200	-	4.500	.450	7P + 24S + 6P	6450120-9
2.800	.250	.300	2.075	1.375	2.850	-	3.150	.450	4P + 24S + 3ACP	6450120-8
3.050	.300	.250	1.950	1.275	3.100	-	3.400	.475	3ACP + 24S + 5P	6450120-7
7.400	.250	.250	5.050	2.875	7.450	-	7.750	.450	10P + 84S + 10P	6450120-6
4.350	.250	.250	3.000	2.125	4.400	-	4.700	.450	7P + 32S + 6P	6450120-5
3.650	.250	.250	2.550	1.875	3.700	-	4.000	.450	6P + 24S + 5P	6450120-4
2.900	.250	.250	1.800	1.125	2.950	-	3.250	.450	3P + 24S + 5P	6450120-3
1.900	.250	.250	1.550	0.875	1.950	-	2.250	.450	2P + 24S + 2P	6450120-2
5.100	.250	.250	3.250	2.375	5.150	-	5.450	.450	8P + 32S + 8P	6450120-1
U	S	T	R	W	D	M	L	K	DESCRIPTION	PART NUMBER



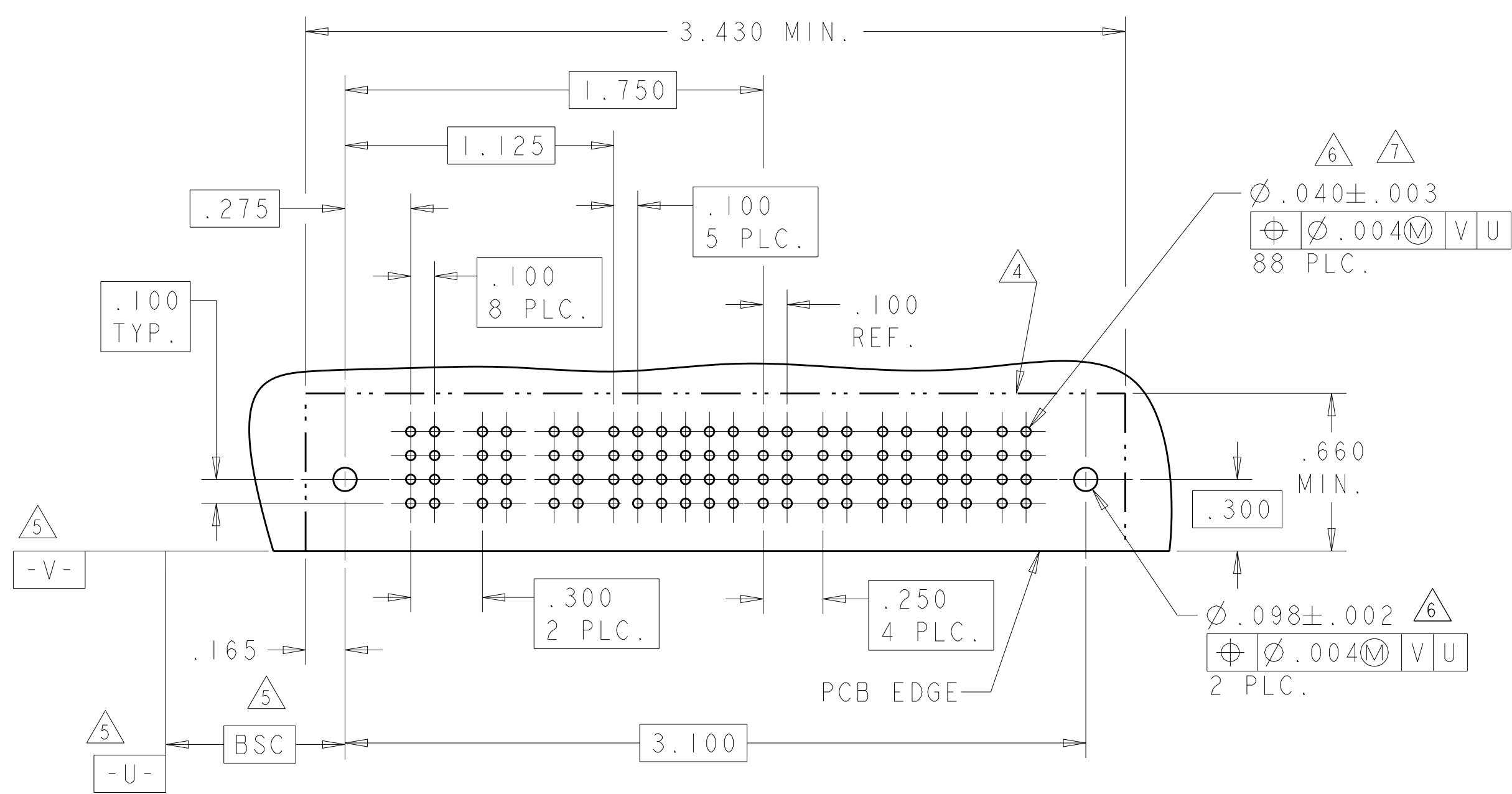
PART NUMBER	ROWS		POWER						SIGNAL						POWER					
			P1	P2	P3	P4	P5	P6	1	2	3	4	5	6	P7	P8	P9	P10	P11	
6450120-4	D C B A	 HD	 PM	 PM	 PM	 PM	 PM	J	J	J	J	J	J	 PM	 PM	 PM	 PM	 PM		
								K	K	K	K	K	K							
								N	N	N	N	N	N							
								S	S	S	S	S	S							
6P + 24S + 5P																				HD



H	MLBF	.135	A
G	MLBF	.135	B
F	MLBF	.135	C
E	MLBF	.135	D
L4	STD	.165	D
L3	STD	.165	B
L2	STD	.165	C
L1	STD	.165	A
Z	STD	.090	D
Y	STD	.090	C
R	STD	.090	B
O	STD	.090	A
F	MLBF	.135	C
G	MLBF	.135	B
J	STD	.135	D
K	STD	.135	C
N	STD	.135	B
S	STD	.135	A
CODE	MATING SEQUENCE	TAIL LENGTH	ROW

4805 (3/11)

PART NUMBER	ROWS		POWER			SIGNAL						POWER					
			P1	P2	P3	1	2	3	4	5	6	P4	P5	P6	P7	P8	
6450120-7	D C B A		PM	PM	PM	J	J	J	J	J	J	PM	PM	PM	PM	PM	
						K	K	K	K	K	K						
						N	N	N	N	N	N						
						S	S	S	S	S	S						
3ACP + 24S + 5P		HD														HD	



7.780 MIN.

4.850

2.725

.250

.100
20 PLC.

.100
20 PLC.

.100 REF.

Ø .040 ± .003
⊕ Ø .004 (M) V U
244 PLC.

.660 MIN.

.300

PCB EDGE

.250
9 PLC.

Ø .098 ± .002
⊕ Ø .004 (M) V U
2 PLC.

.165

.100 TYP.

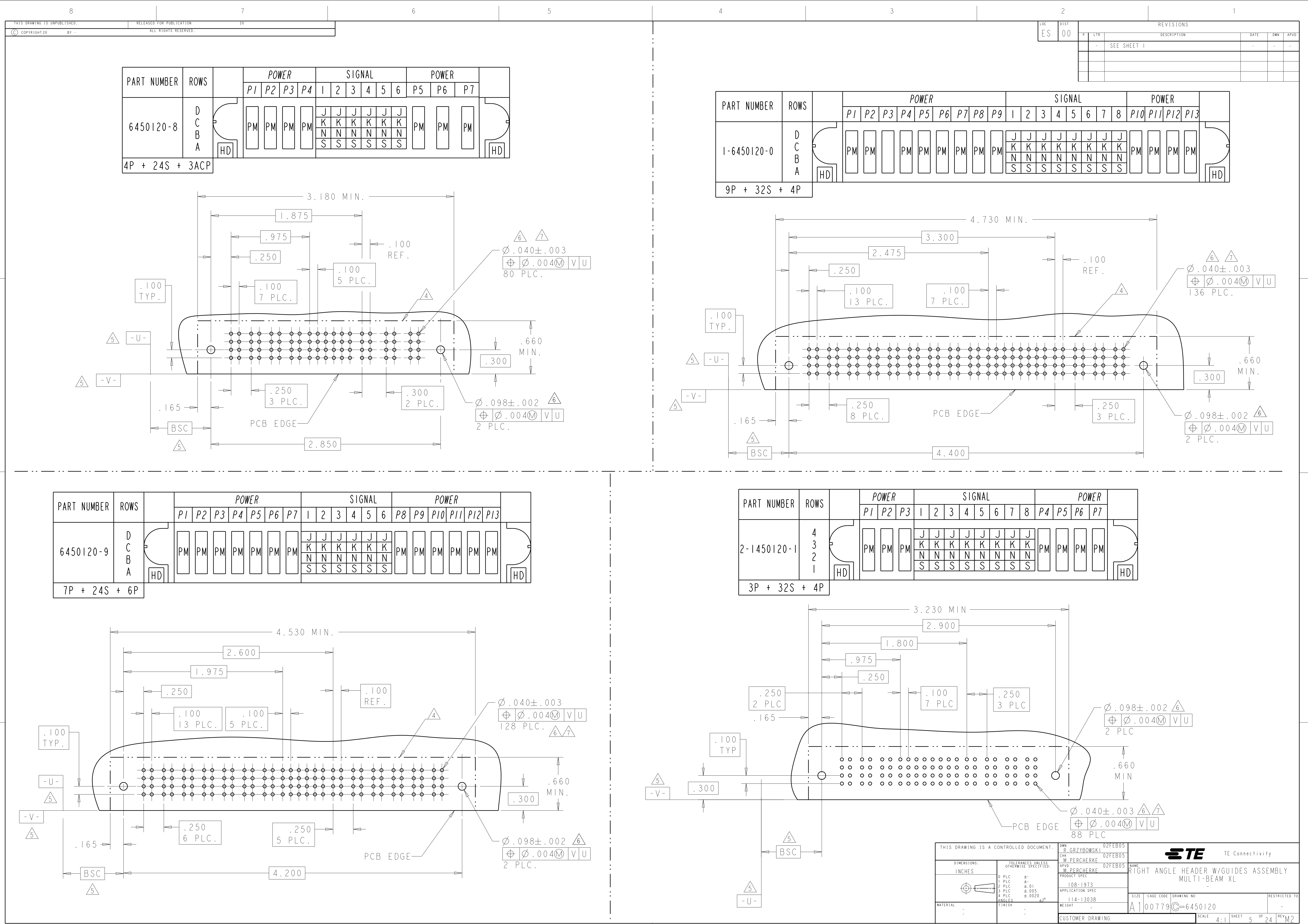
-U-

-V-

BSC

7.450

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN. GRZYBOWSKI 02FEB05 CHG. M. PERCHERKE 02FEB05 APPR. M. PERCHERKE 02FEB05		 TE Connectivity	
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME: RIGHT ANGLE HEADER W/GUIDES ASSEMBLY MULTI-BEAM XL	
		0 PLC ±. 1 PLC ±. 2 PLC ±.01 3 PLC ±.005 4 PLC ±.0020 ANGLES ±0°		PRODUCT SPEC 108-1973 APPLICATION SPEC 114-13038	
MATERIAL -		FINISH -		SIZE CAGE CODE DRAWING NO RESTRICTED TO A100779C6450120 -	
WEIGHT -		CUSTOMER DRAWING		SCALE 4:1 SHEET 4 of 24 REV M	



PART NUMBER	ROWS		POWER				SIGNAL						POWER			
			P1	P2	P3	P4	1	2	3	4	5	6	P5	P6	P7	
6450120-8	D		PM	PM	PM	PM	J	J	J	J	J	J	PM	PM	PM	
	K						K	K	K	K	K					
	N						N	N	N	N	N					
	S						S	S	S	S	S					
4P + 24S + 3ACP																

3.180 MIN.

1.875

.975

.250

.100 7 PLC.

.100 5 PLC.

.100 REF.

Ø.040±.003
⊕ Ø.004 M V U
80 PLC.

Ø.098±.002
⊕ Ø.004 M V U
2 PLC.

.300 2 PLC.

.250 3 PLC.

.165

BSC

PCB EDGE

2.850

.300

.660 MIN.

-U-

-V-

5

PART NUMBER	ROWS		POWER									SIGNAL								POWER															
			P1	P2	P3	P4	P5	P6	P7	P8	P9	1	2	3	4	5	6	7	8	P10	P11	P12	P13												
1-6450120-0	D		PM	PM			PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM												
	J																								J	J	J	J	J	J	J	PM	PM	PM	PM
	K																								K	K	K	K	K	K	K				
	N																								N	N	N	N	N	N	N				
9P + 32S + 4P																																			

4.730 MIN.

3.300

2.475

.250

.100 13 PLC.

.100 7 PLC.

.100 REF.

Ø.040±.003
⊕ Ø.004 M V U
136 PLC.

Ø.098±.002
⊕ Ø.004 M V U
2 PLC.

.300

.660 MIN.

.250 3 PLC.

.165

BSC

PCB EDGE

4.400

.300

-U-

-V-

5

PART NUMBER	ROWS		POWER							SIGNAL						POWER						
			P1	P2	P3	P4	P5	P6	P7	1	2	3	4	5	6	P8	P9	P10	P11	P12	P13	
6450120-9	D		PM	PM	PM	PM	PM	PM	J	J	J	J	J	J	PM	PM	PM	PM	PM	PM		
	K								K	K	K	K	K									
	N								N	N	N	N	N									
	S								S	S	S	S	S									
7P + 24S + 6P																						

4.530 MIN.

2.600

1.975

.250

.100 13 PLC.

.100 5 PLC.

.100 REF.

Ø.040±.003
⊕ Ø.004 M V U
128 PLC.

Ø.098±.002
⊕ Ø.004 M V U
2 PLC.

.300

.660 MIN.

.250 5 PLC.

.250 6 PLC.

.165

BSC

PCB EDGE

4.200

.300

-U-

-V-

5

PART NUMBER	ROWS		POWER			SIGNAL								POWER				
			P1	P2	P3	1	2	3	4	5	6	7	8	P4	P5	P6	P7	
2-1450120-1	4		PM	PM	PM	J	J	J	J	J	J	J	J	PM	PM	PM	PM	
	K					K	K	K	K	K	K	K						
	N					N	N	N	N	N	N	N						
	S					S	S	S	S	S	S	S						
3P + 32S + 4P																		

3.230 MIN.

2.900

1.800

.975

.250

.100 7 PLC.

.250 3 PLC.

.250 2 PLC.

.165

Ø.098±.002
⊕ Ø.004 M V U
2 PLC.

Ø.040±.003
⊕ Ø.004 M V U
88 PLC.

.660 MIN.

PCB EDGE

BSC

-U-

5

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN

R. GRZYBOWSKI

02FEB05

CHK

M. PERCHERKE

02FEB05

APVD

M. PERCHERKE

02FEB05

NAME

RIGHT ANGLE HEADER W/GUIDES ASSEMBLY

PRODUCT SPEC

108-1973

APPLICATION SPEC

114-13038

WEIGHT

-

CUSTOMER DRAWING

SCALE

4:1

SHEET

5

OF

24

REV

M2

RESTRICTED TO

-

TE Connectivity

TE

4805 (3/11)

[illegible]

2.780 MIN.

1.600

.250 REF

.975

.250

.250
4 PLC

.100
TYP.

-U-

5

-V-

5

.165

.100
6 PLC.

PCB EDGE

.100
5 PLC.

.100
REF.

.660 MIN.

.300

Ø.040 ± .003
⊕ Ø.004(M) V U
72 PLC.

Ø.098 ± .002
⊕ Ø.004(M) V U
2 PLC

6

7

4

5

6

2.450

BSC

LOC		DIST		REVISONS					
ES		00		P	LTR	DESCRIPTION	DATE	DWN	APV
					-	SEE SHEET I	-	-	-

.165
 1.580 MIN
 1.250
 .900
 .475
 .250
 .100 TYP
 .660 MIN
 .300
 .098 ± .002
 .040 ± .003
 .004 M V U
 32 PLC
 2 PLC
 PCB EDGE
 BSC
 .100 3 PLC
 -V-
 -U-

THIS DRAWING IS A CONTROLLED DOCUMENT.

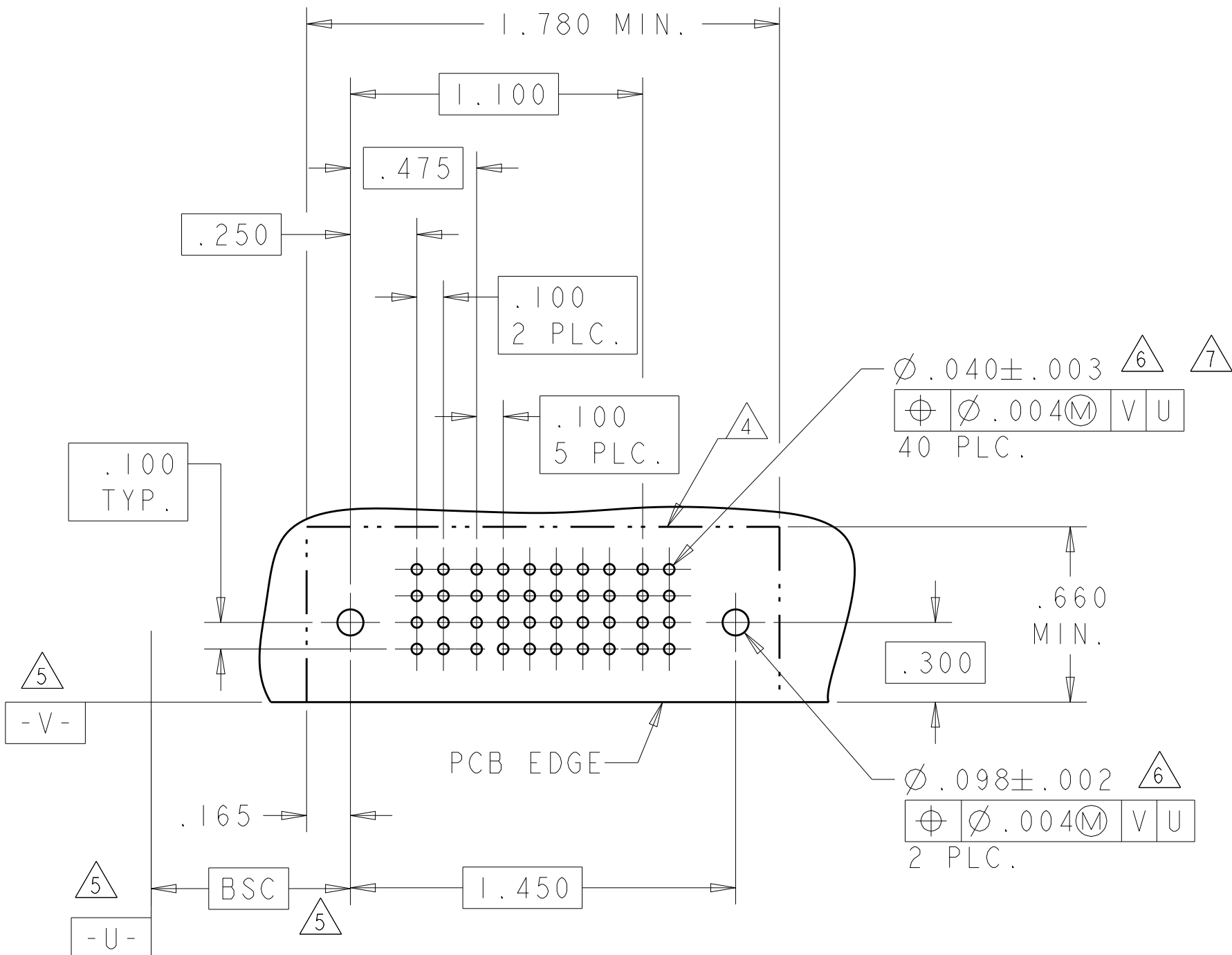
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:
INCHES		
0 PLC	$\pm .$	
1 PLC	$\pm .$	
2 PLC	$\pm .01$	
3 PLC	$\pm .005$	

DWN	R.GRZYBOWSKI	02FEB05
CHK	M.PERCHERKE	02FEB05
APVD	M.PERCHERKE	02FEB05
PRODUCT SPEC		
108-1973		
APPLICATION SPEC		

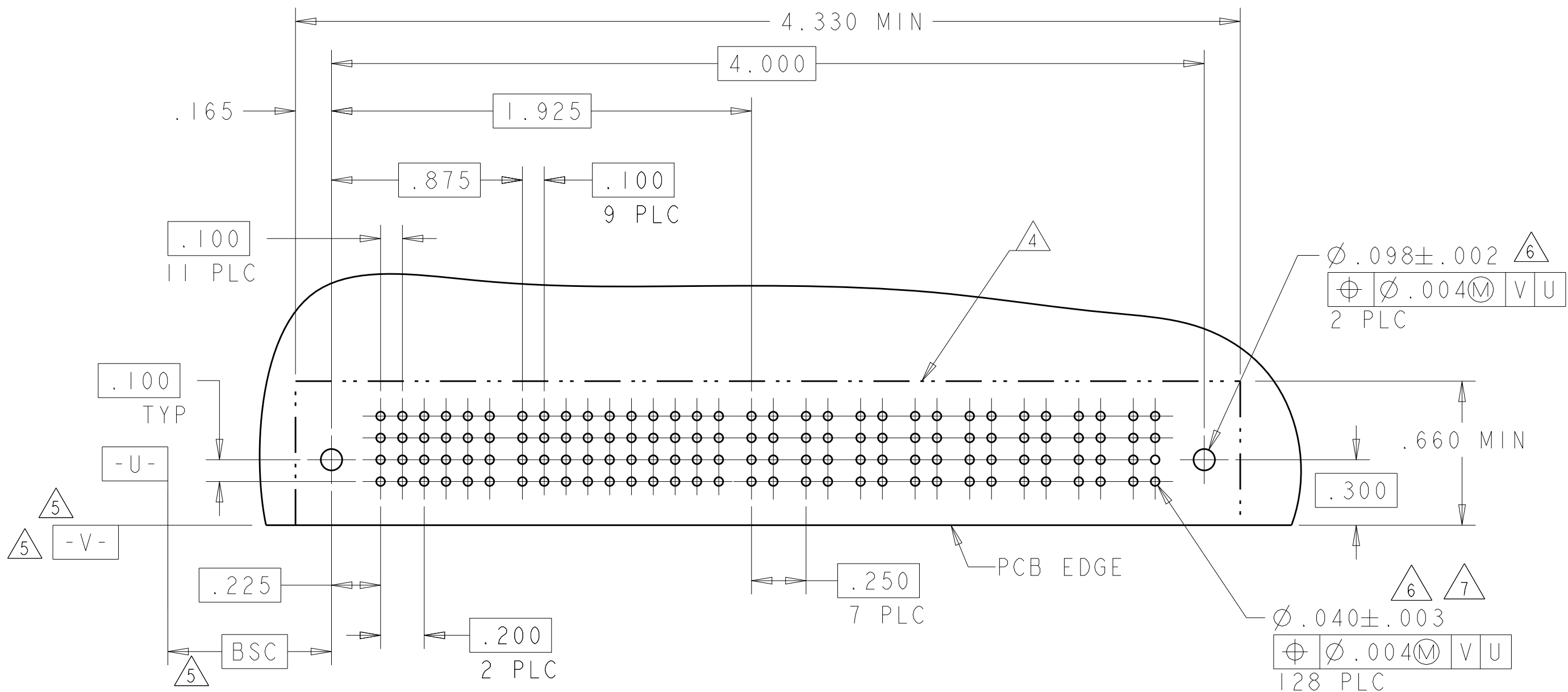
NAME	RIGHT ANGLE

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 02FEB05		NAME RIGHT ANGLE HEADER W/GUIDES ASSEMBLY	
		PRODUCT SPEC 108-1973		MULTI-BEAM XL	
0 PLC ± 1 PLC ±.01 3 PLC ±.005 4 PLC ±.0020 <i>2x</i> ANGLES		APPLICATION SPEC 114-13038			
MATERIAL -		WEIGHT -		SIZE A1	
FINISH -		CUSTOMER DRAWING		CASE CODE 100779	
				DRAWING NO C=6450120	
				RESTRICTED -	
				SCALE 4:1	
				SHEET 6 OF 24	
				REV M2	

PART NUMBER	ROWS	POWER		SIGNAL						POWER	
		PI	P2	1	2	3	4	5	6	P2	PI
1-6450120-6	D C B A		PA	Z	Z	Z	Z	Z	Z	PA	
				Y	Y	Y	Y	Y	Y		
				R	R	R	R	R	R		
				O	O	O	O	O	O		
IP + 24S + IP		HD								HD	

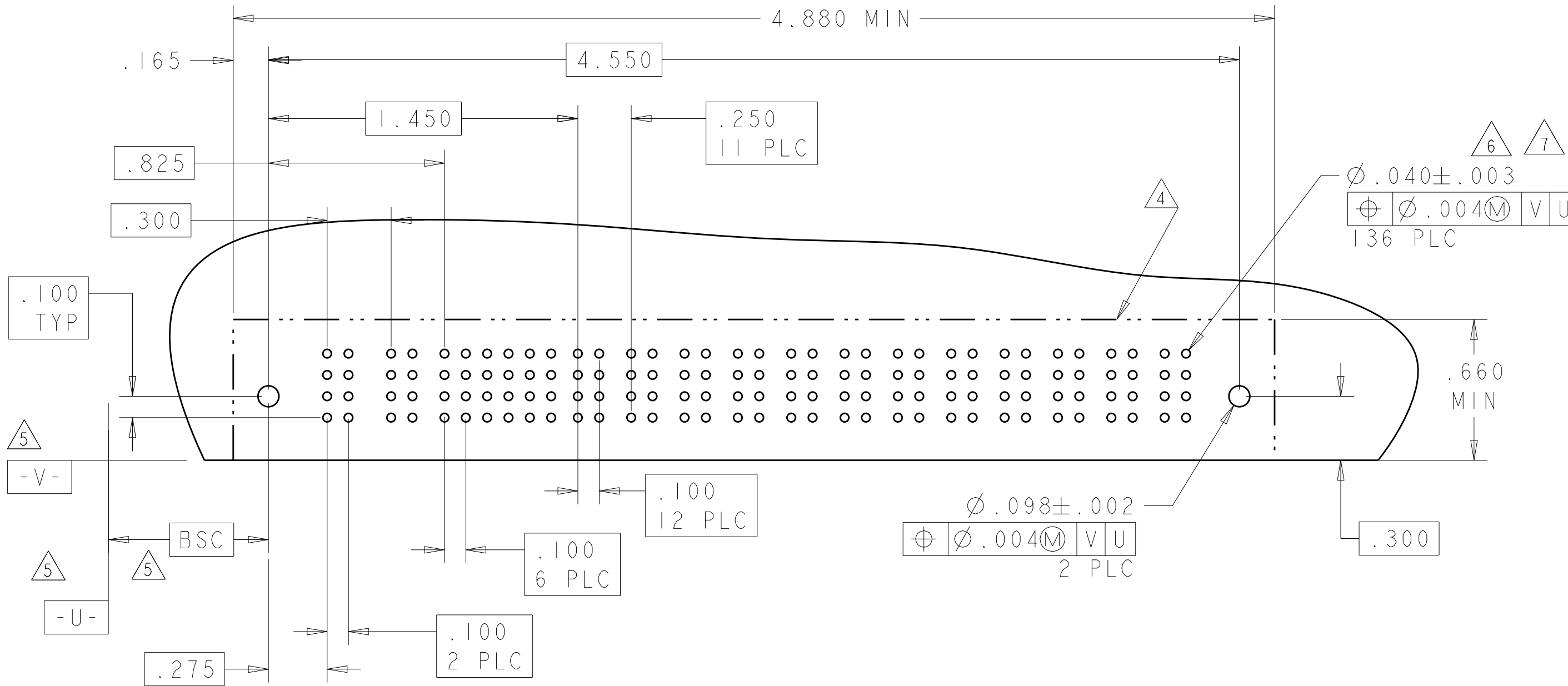


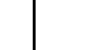
PART NUMBER	ROWS		POWER			SIGNAL										POWER									
			P1	P2	P3	1	2	3	4	5	6	7	8	9	10	P4	P5	P6	P7	P8	P9	P10	P11		
2-6450120-0	D C B A		PM	PM	PM	J	J	J	J	J	J	J	J	J	J	PM	PM	PM	PM	PM	PM	PM	PM		
						K	K	K	K	K	K	K	K	K	K									K	
						N	N	N	N	N	N	N	N	N	N									N	N
						S	S	S	S	S	S	S	S	S	S									S	S
3P + 40S + 8P			HD																					HD	

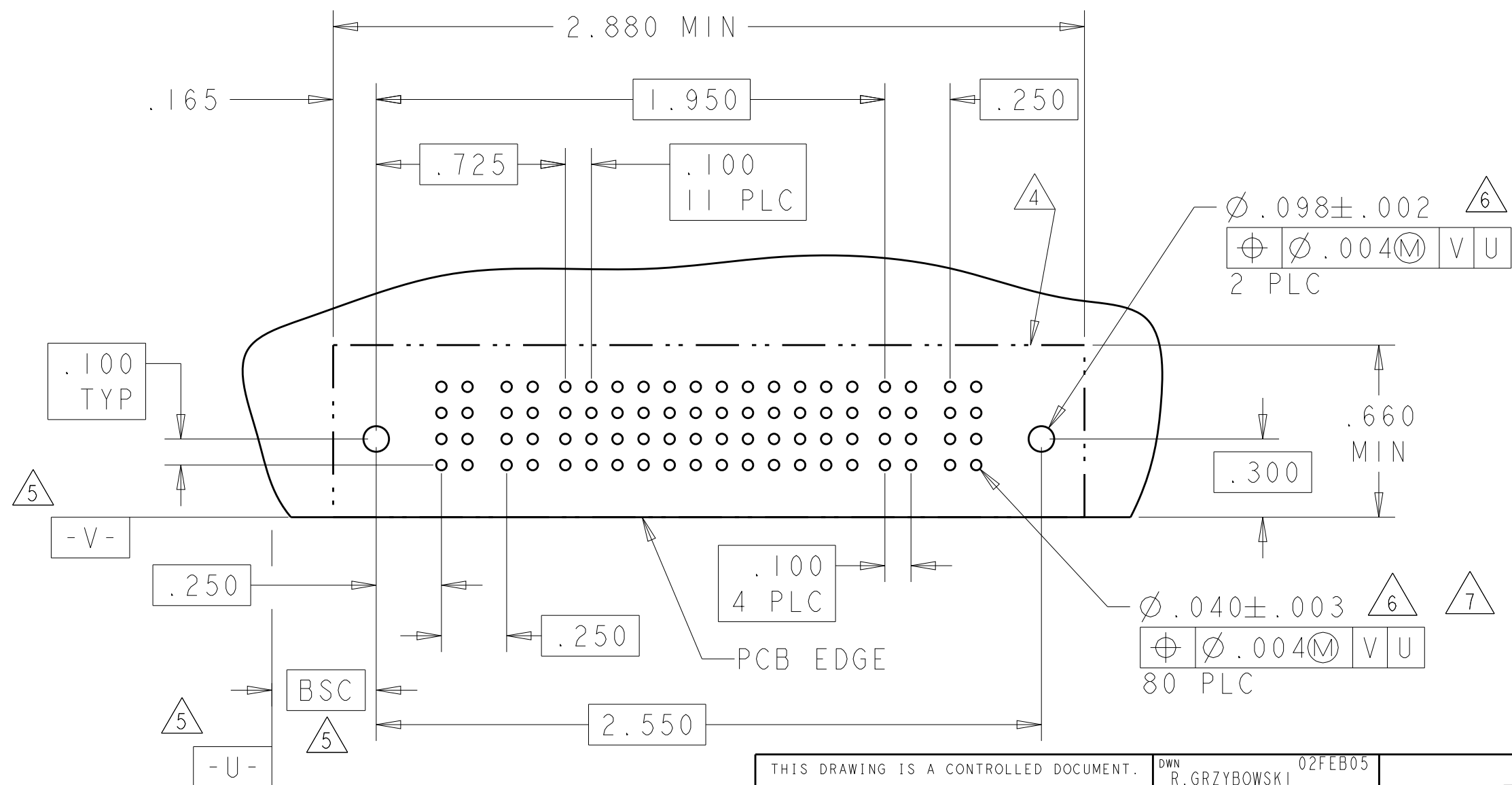


LOC		DIST		REVISIONS			
P	LYR	DESCRIPTION		DATE	DWN	APVD	
ES	00	-	SEE SHEET 1	-	-	-	

PART NUMBER	ROWS	POWER		SIGNAL						POWER													
		PI	P2	1	2	3	4	5	6	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14		
2-6450120-2	D C B A	PM	PM	J	J	J	J	J	J	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	HD	
				K	K	K	K	K	K														
				N	N	N	N	N	N														
2ACP + 24S + 12P		HD		S	S	S	S	S	S	HD		HD		HD		HD		HD		HD		HD	

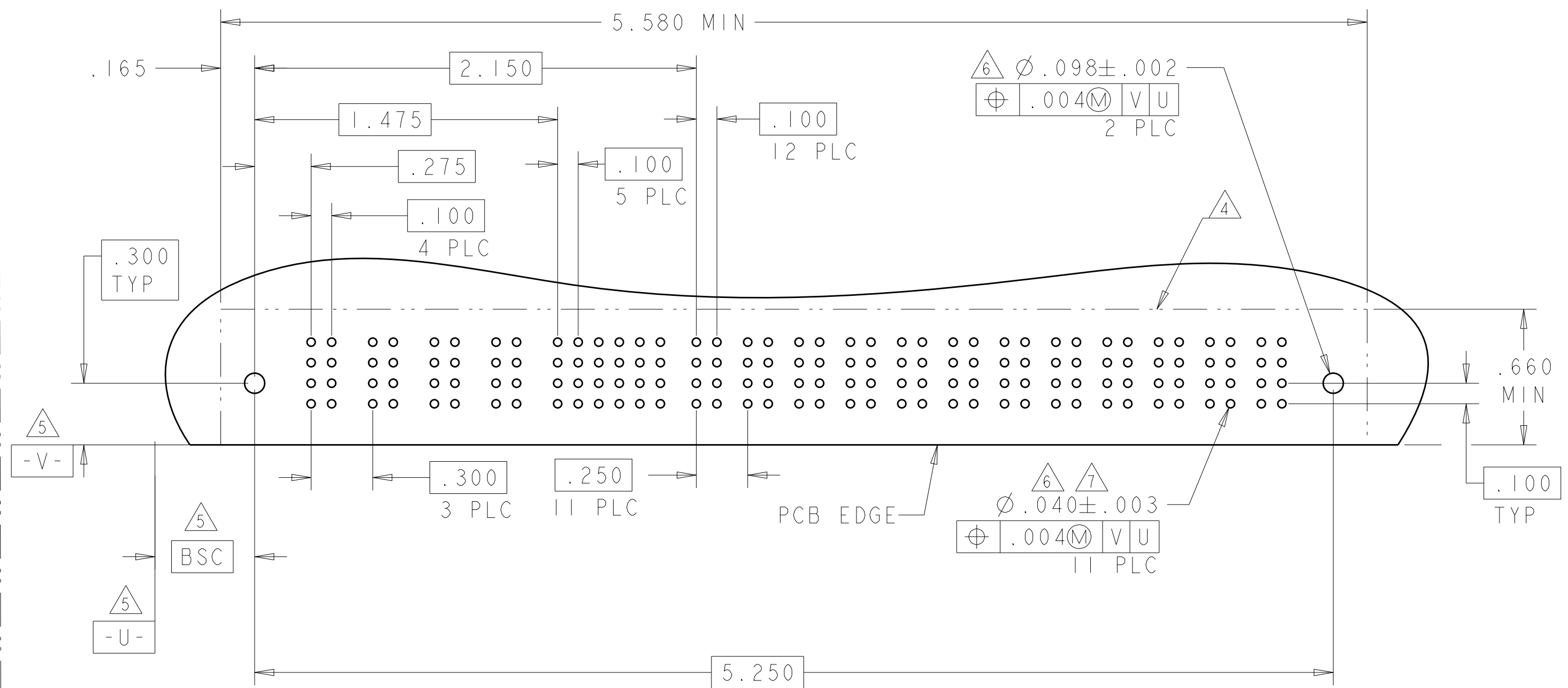
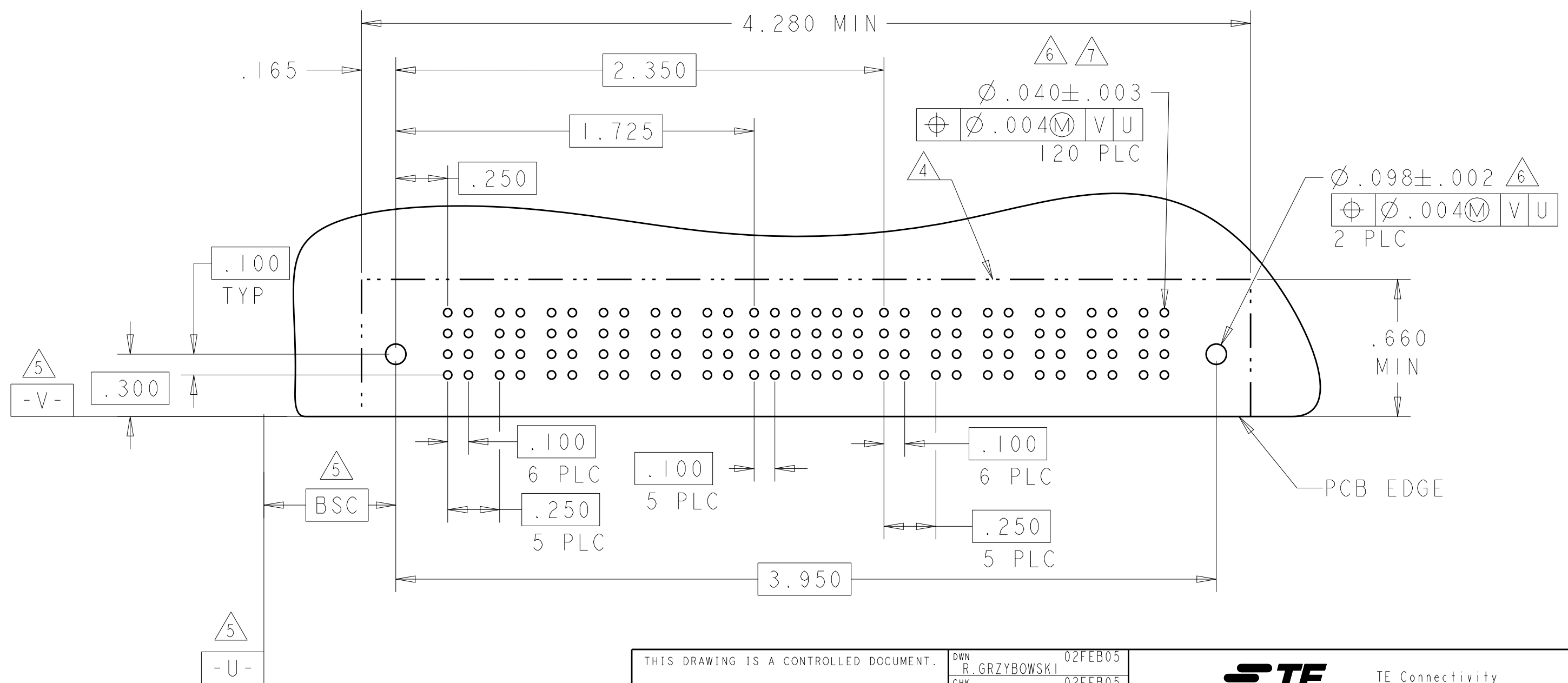


PART NUMBER	ROWS		POWER		SIGNAL												POWER					
			P1	P2	1	2	3	4	5	6	7	8	9	10	11	12	P3	P4				
2-6450120-3	D C B A			PM	PM	J	J	J	J	J	J	J	J	J	J	J	PM	PM				
						K	K	K	K	K	K	K	K	K	K	K				K	K	
						N	N	N	N	N	N	N	N	N	N	N				N	N	N
						S	S	S	S	S	S	S	S	S	S	S				S	S	S
2P + 48S + 2P																						

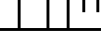


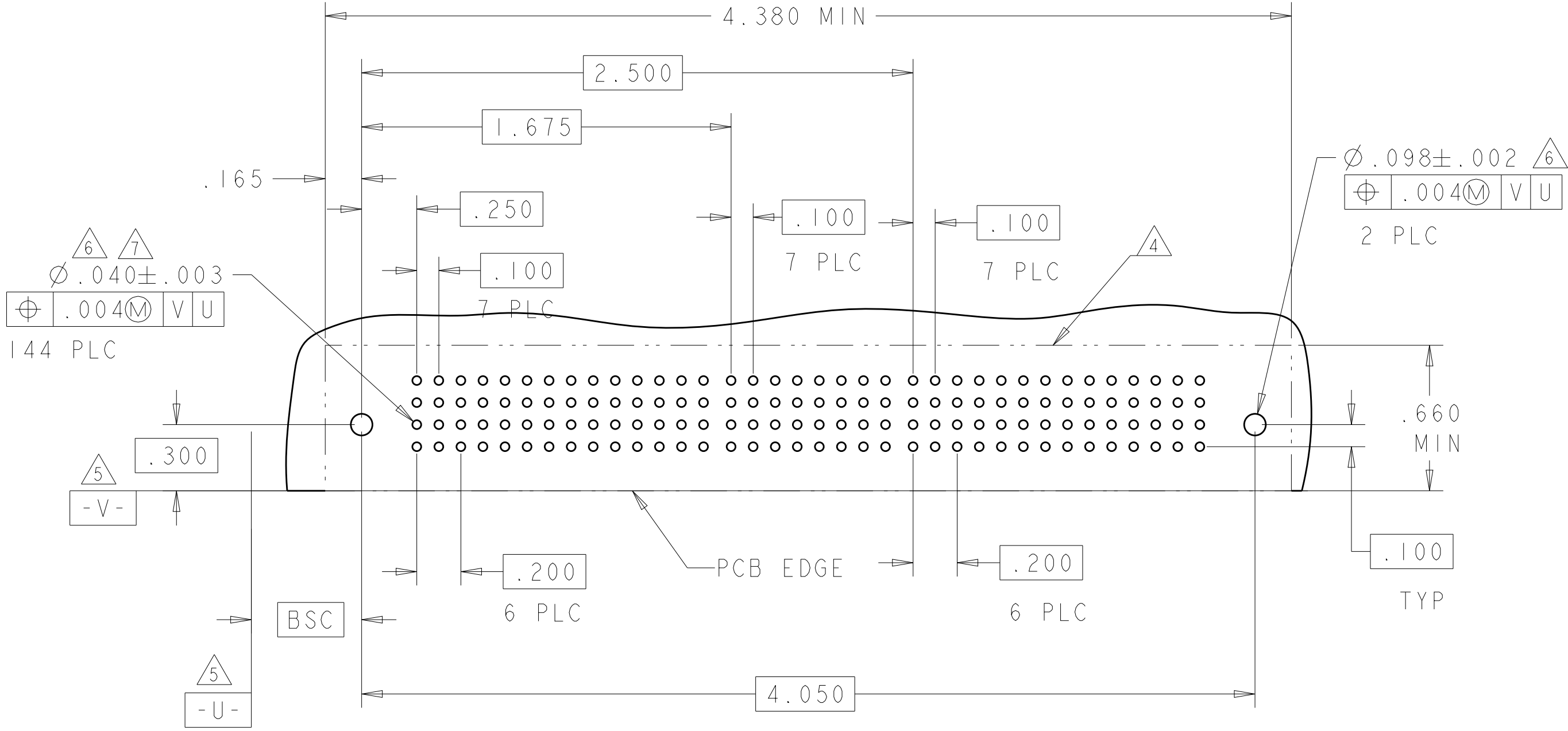
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R.GRZYBOWSKI 02FEB05	CHK M.PERCHEKKE 02FEB05	TE Connectivity	
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
0 PLC ±.01		1 PLC ±.01		PRODUCT SPEC	
2 PLC ±.01		3 PLC ±.01		108-1973	
4 PLC ±.002		ANGLES ±.002		APPLICATION SPEC	
MATERIAL		FINISH		114-13038	
				WEIGHT	
				CUSTOMER DRAWING	
				SIZE CAGE CODE DRAWING NO	
				A100779C=6450120	
				RESTRICTED TO	
				SCALE 4:1 SHEET 7 OF 24 REV M2	

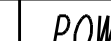
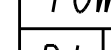
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2-64501020-6	D C B A	PM PM PM PM				K J K J N N N N S S S S K J K J K K K K N N N N S S S S						PM PM PM PM PM PM PM PM PM PM PM PM											
4ACP + 24S + 12P																							

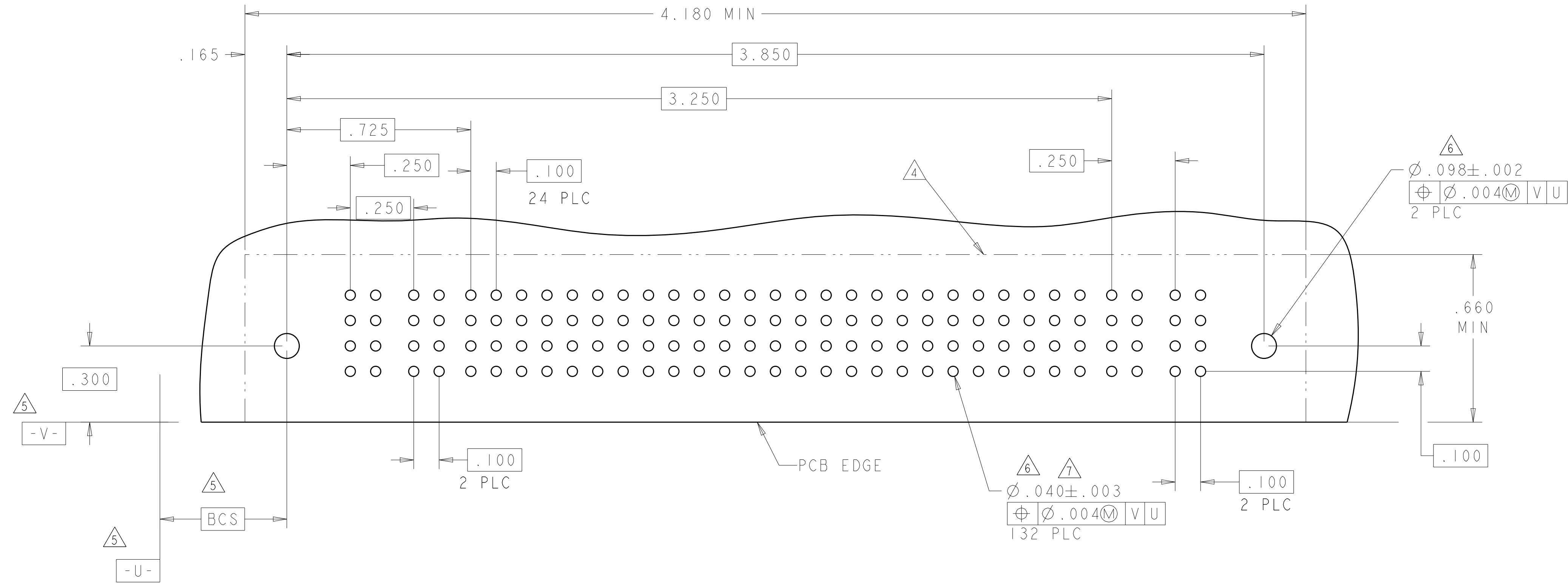
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LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-	-	SEE SHEET 1	-	-	-

PART NUMBER	ROWS		POWER							SIGNAL								POWER								
			P1	P2	P3	P4	P5	P6	P7	1	2	3	4	5	6	7	8	P8	P9	P10	P11	P12	P13	P14		
3-6450120-0	D			PM	PM	PM	PM	PM	PM	J	J	J	J	J	J	J	J	PM	PM	PM	PM	PM	PM	PM		
	K									K	K	K	K	K	K	K	K									
	N									N	N	N	N	N	N	N	N									N
	S									S	S	S	S	S	S	S	S									S
7HDP + 32S + 7HDP																										



PART NUMBER	ROWS		POWER		SIGNAL																									POWER			
			P1	P2	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	P3	P4		
3-6450120-6	D		PM	PM	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	PM	PM		
	K				K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K				
	N				N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			N	
	S				S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S				
2P + 100S + 2P			HD																														HD



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DWN

R.GRZYBOWSKI

02FEB05

CHK

M.PERCHEKKE

02FEB05

APVD

M.PERCHEKKE

02FEB05

DIMENSIONS:

INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±.01

1 PLC ±.01

2 PLC ±.01

3 PLC ±.005

4 PLC ±.0020

ANGLES ±2°

FINISH

MATERIAL

-

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN

R.GRZYBOWSKI

02FEB05

CHK

M.PERCHEKKE

02FEB05

APVD

M.PERCHEKKE

02FEB05

PRODUCT SPEC

108-1973

APPLICATION SPEC

114-13038

WEIGHT

-

CUSTOMER DRAWING

NAME

RIGHT ANGLE HEADER W/GUIDES ASSEMBLY MULTI-BEAM XL

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A1

00779

C=6450120

-

SCALE

4:1

SHEET

9

OF

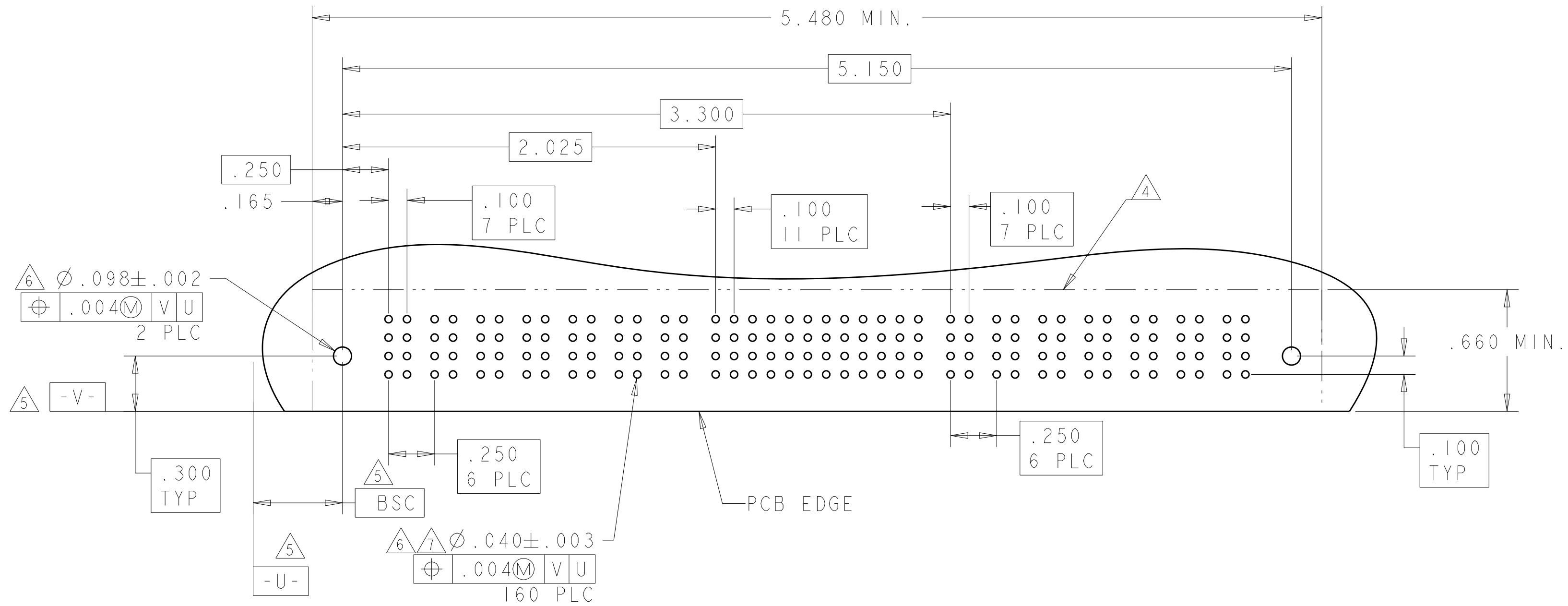
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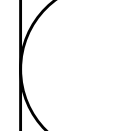
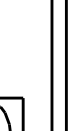
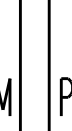
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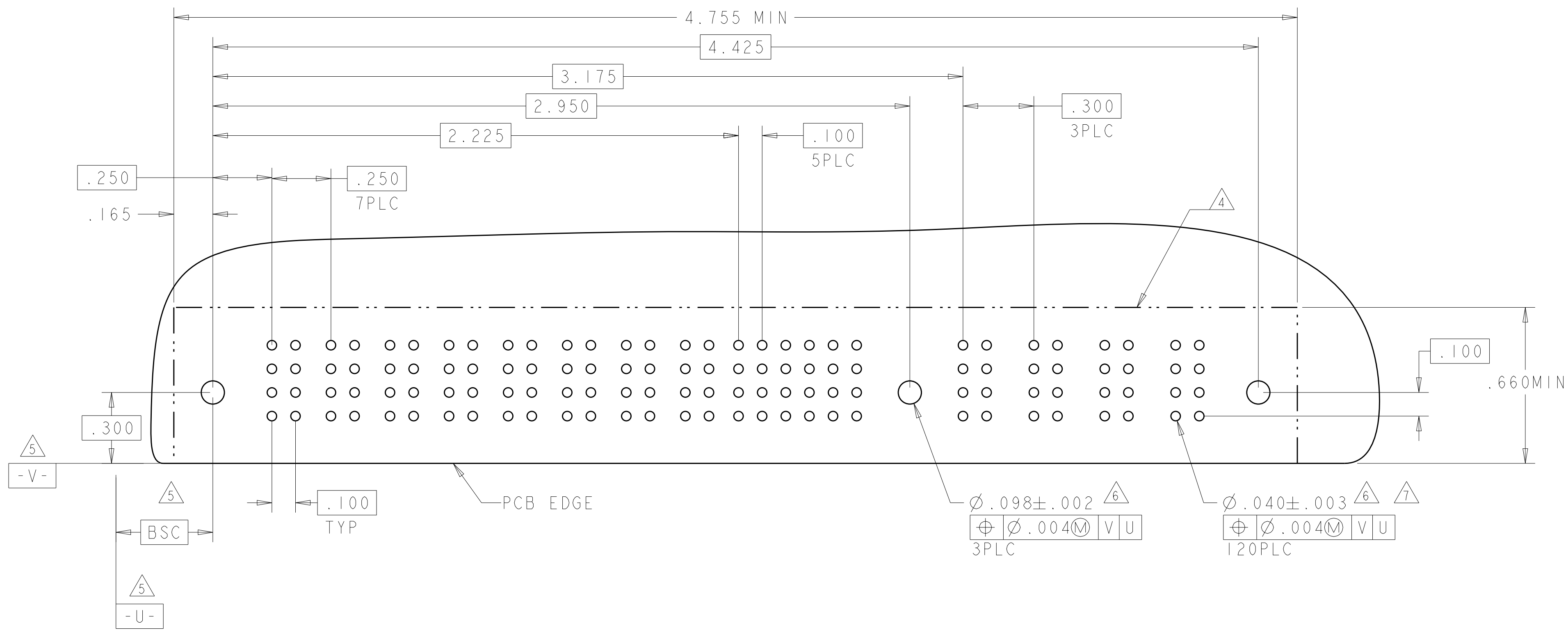
M2

[illegible][illegible]4805 (3/11)

PART NUMBER	ROWS		POWER							SIGNAL												POWER											
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3-6450120-4	D C B A										J	J	J	J	J	J	J	J	J	J	J	J	J	J									
											K	K	K	K	K	K	K	K	K	K	K	K	K	K									
											N	N	N	N	N	N	N	N	N	N	N	N	N	N									N
											S	S	S	S	S	S	S	S	S	S	S	S	S	S									S
7P + 48S + 7P																																	



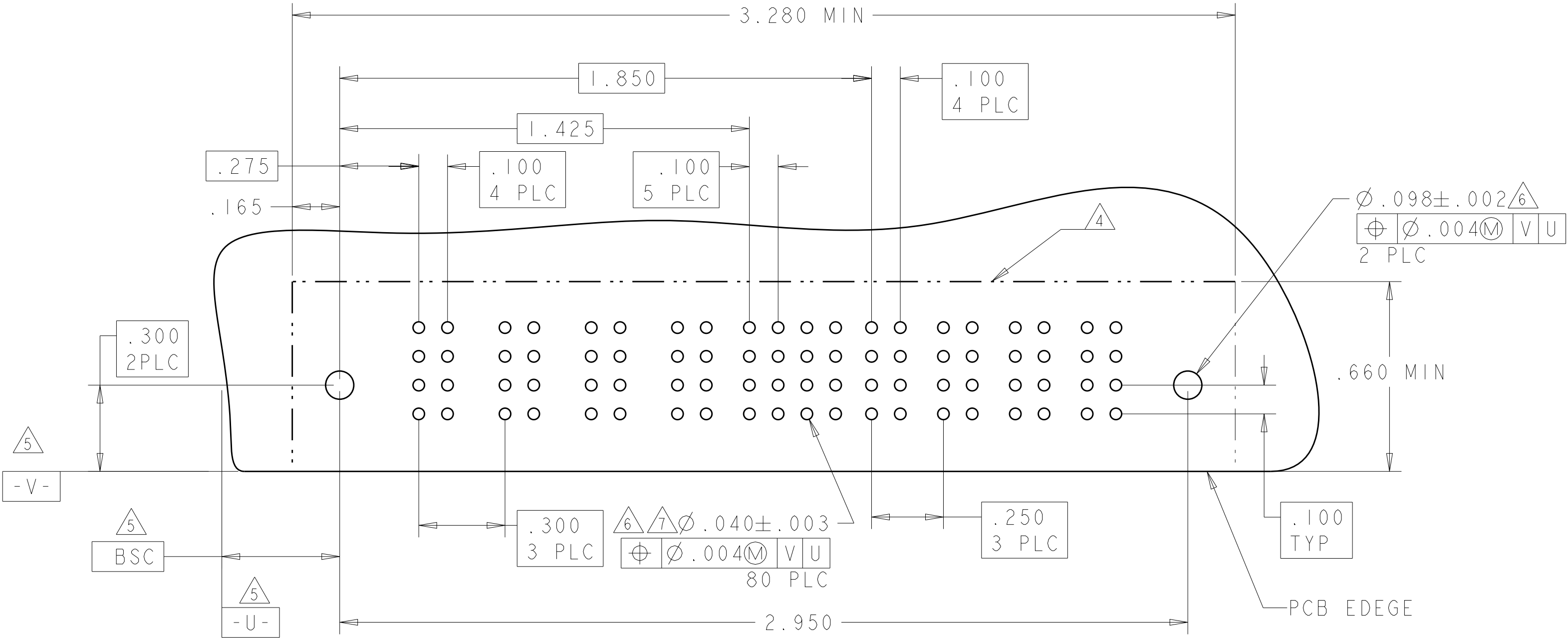
PART NUMBER	ROWS		POWER								SIGNAL							POWER				
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4-6450120-2	D C B A										J K N S	J K N S	J K N S	J K N S	J K N S							
8P + 24S + 1M + 4ACP																						



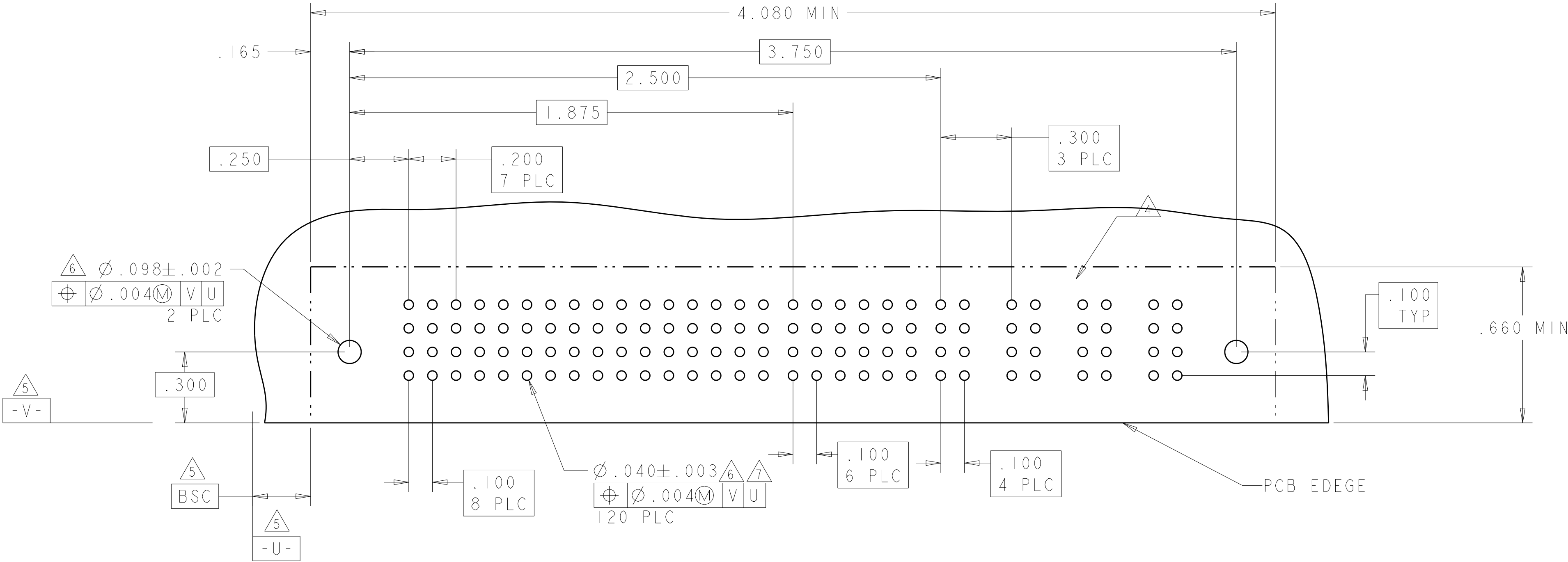
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R. GRZYBOWSKI 02FEB05		 TE Connectivity	
DIMENSIONS:		CWX M. PERCHERKE 02FEB05		NAME	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD M. PERCHERKE 02FEB05		RIGHT ANGLE HEADER W/GUIDES ASSEMBLY	
INCHES		PRODUCT SPEC		MULTI-BEAM XL	
		108-1973		-	
		APPLICATION SPEC		SIZE CAGE CODE DRAWING NO	
		114-13038		A100779 C=6450120	
MATERIAL		WEIGHT -		RESTRICTED TO	
FINISH				-	
		CUSTOMER DRAWING		SCALE 4:1 SHEET 11 of 24 REV M2	

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

PART NUMBER	ROWS		POWER				SIGNAL				POWER				
			P1	P2	P3	P4	1	2	3	4	P5	P6	P7	P8	
4-6450120-3	D C B A		PM	PM	PM	PM	J	J	J	J	PM	PM	PM	PM	
							K	K	K	K					
							N	N	N	N					
							S	S	S	S					
4ACP + 16S + 4P															



PART NUMBER	ROWS		POWER								SIGNAL						POWER				
			P1	P2	P3	P4	P5	P6	P7	P8	1	2	3	4	5	6	P9	P10	P11	P12	
4-6450120-4	D C B A																				
8P + 24S + 4ACP																					



THIS DRAWING IS A CONTROLLED DOCUMENT.

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

02FEB05
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
-

TE Connectivity

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

SIZE
A1

CAGE CODE
00779

DRAWING NO
C=6450120

RESTRICTED TO
-

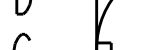
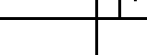
CUSTOMER DRAWING

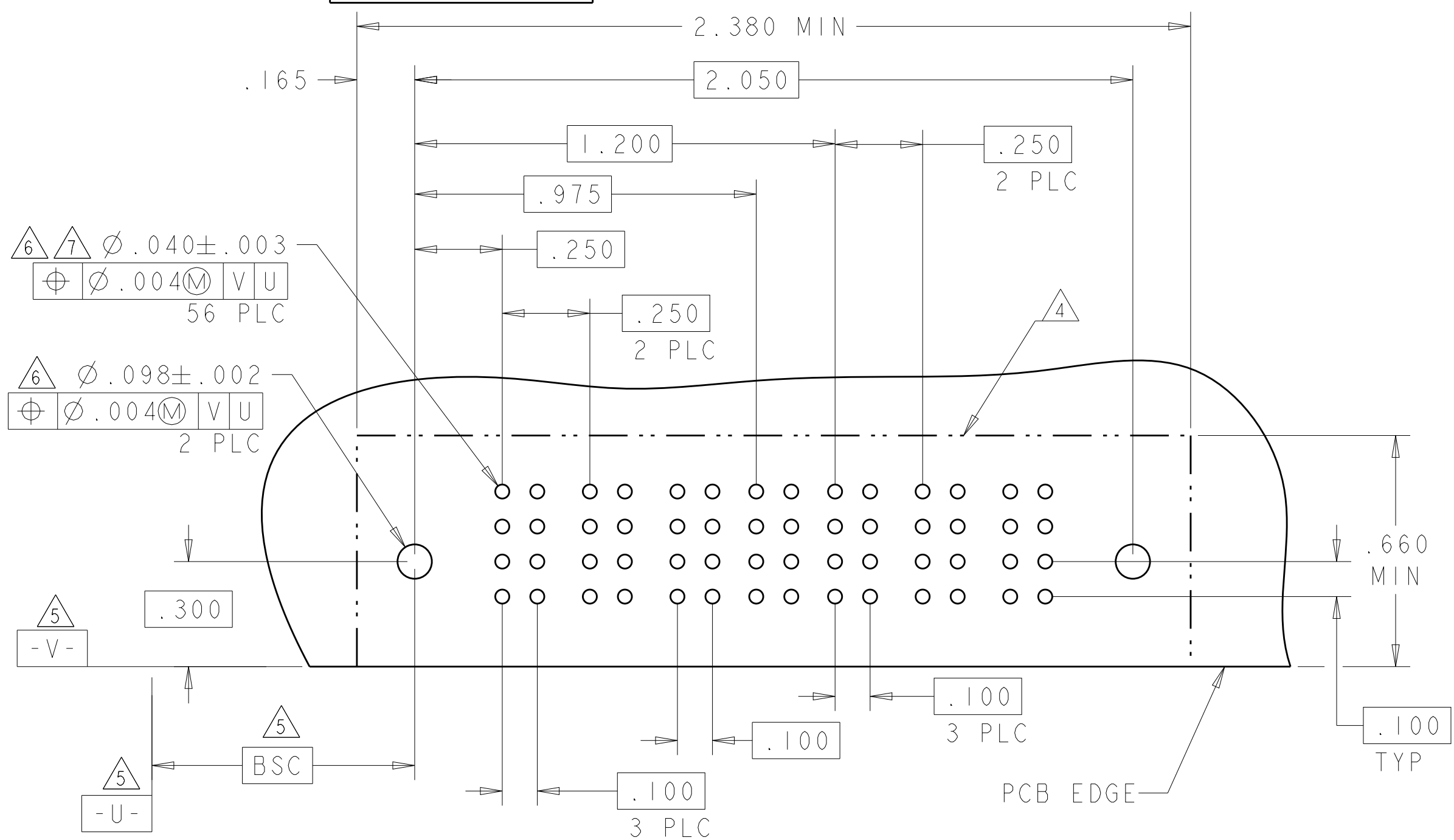
SCALE
4:1

SHEET
12

OF
24

REV
M2

PART NUMBER	ROWS		POWER			SIGNAL		POWER			
			P1	P2	P3	1	2	P4	P5	P6	
4-6450120-6	D					J	J				
	C					K	K				
	B					N	N				
	A					S	S				
3P + 8S + 3P											



2.280 MIN.

1.350

.725

.250

.100
4 PLC

Ø.040±.003
56 PLC.

.100
TYP.

4

.660
MIN.

.300

.165

BSC

.100
5 PLC.

.250

.250

Ø.098±.002
2 PLC.

PCB EDGE

1.950

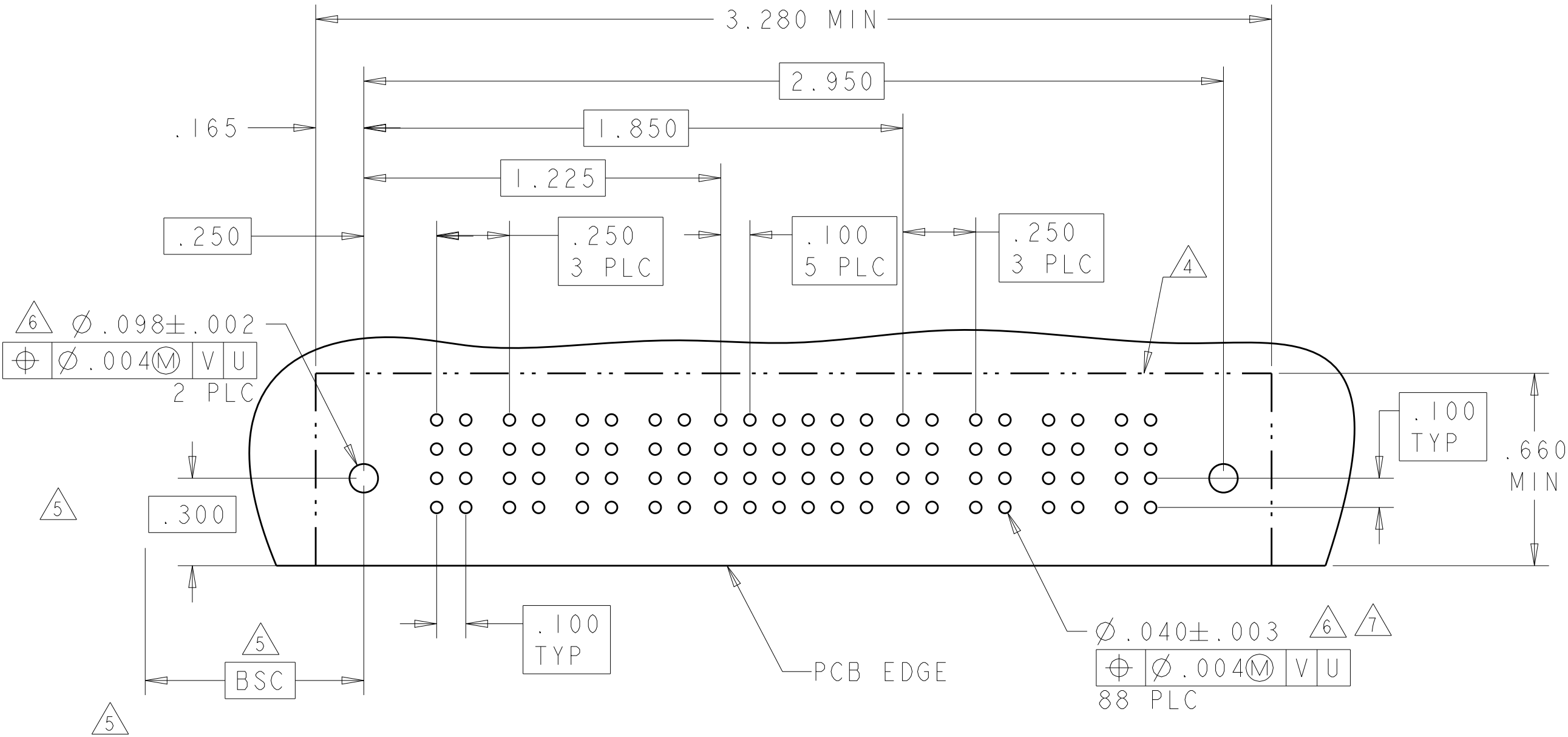
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-V-

5
-U-

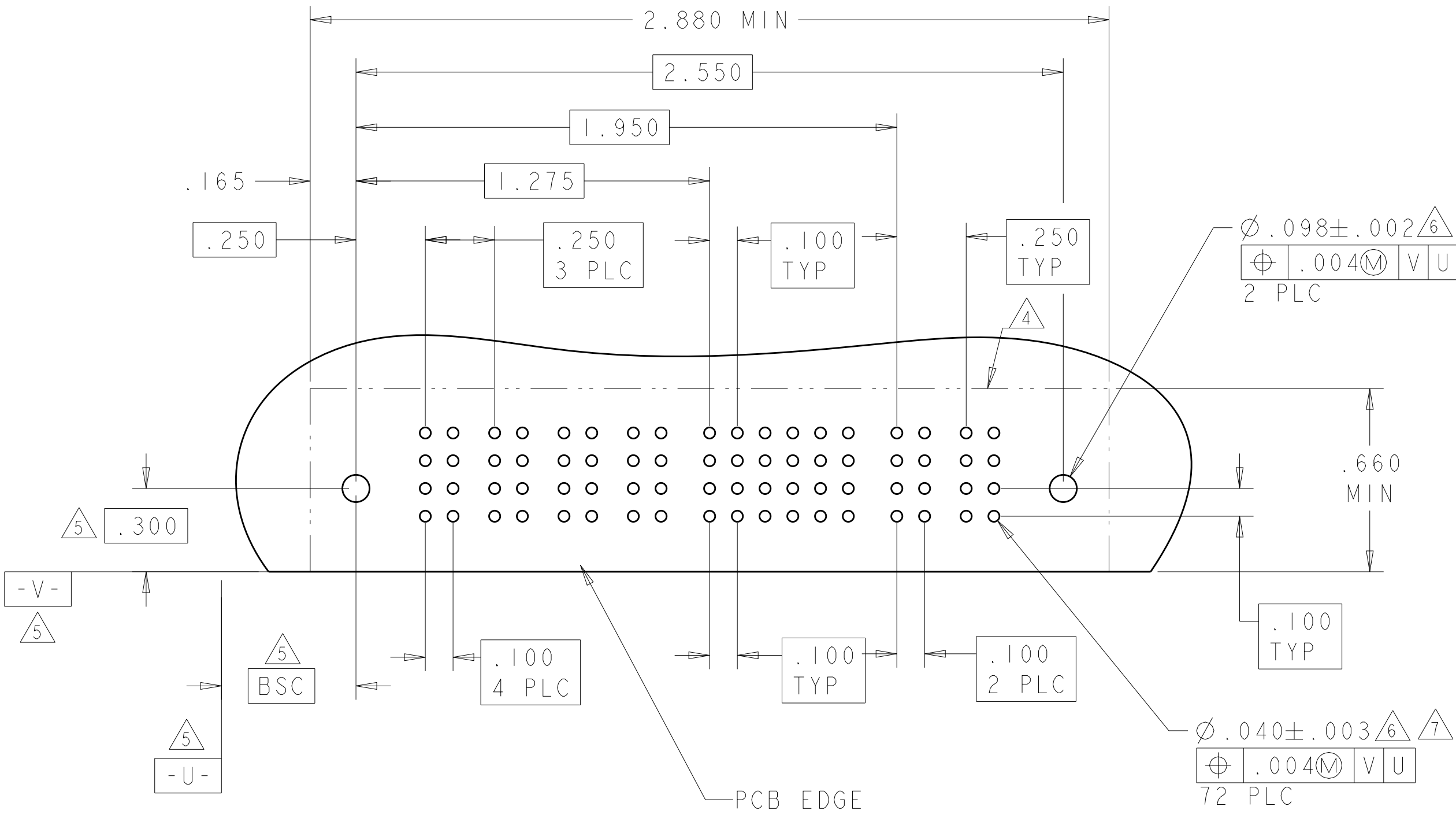
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN GRZYBOWSKI 02FEB05 CHG M. PERCHERKE 02FEB05 APP M. PERCHERKE 02FEB05		 TE Connectivity	
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME: RIGHT ANGLE HEADER W/GUIDES ASSEMBLY MULTI-BEAM XL	
		0 PLC ±. 1 PLC ±. 2 PLC ±.01 3 PLC ±.005 4 PLC ±.0020 ANGLES ±0°		PRODUCT SPEC 108-1973 APPLICATION SPEC 114-13038	
MATERIAL: -		FINISH: -		SIZE: CAGE CODE: DRAWING NO: RESTRICTED TO:	
				A100779C6450120 -	
		CUSTOMER DRAWING		SCALE: 4:1 SHEET 13 OF 24 REV: M	

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

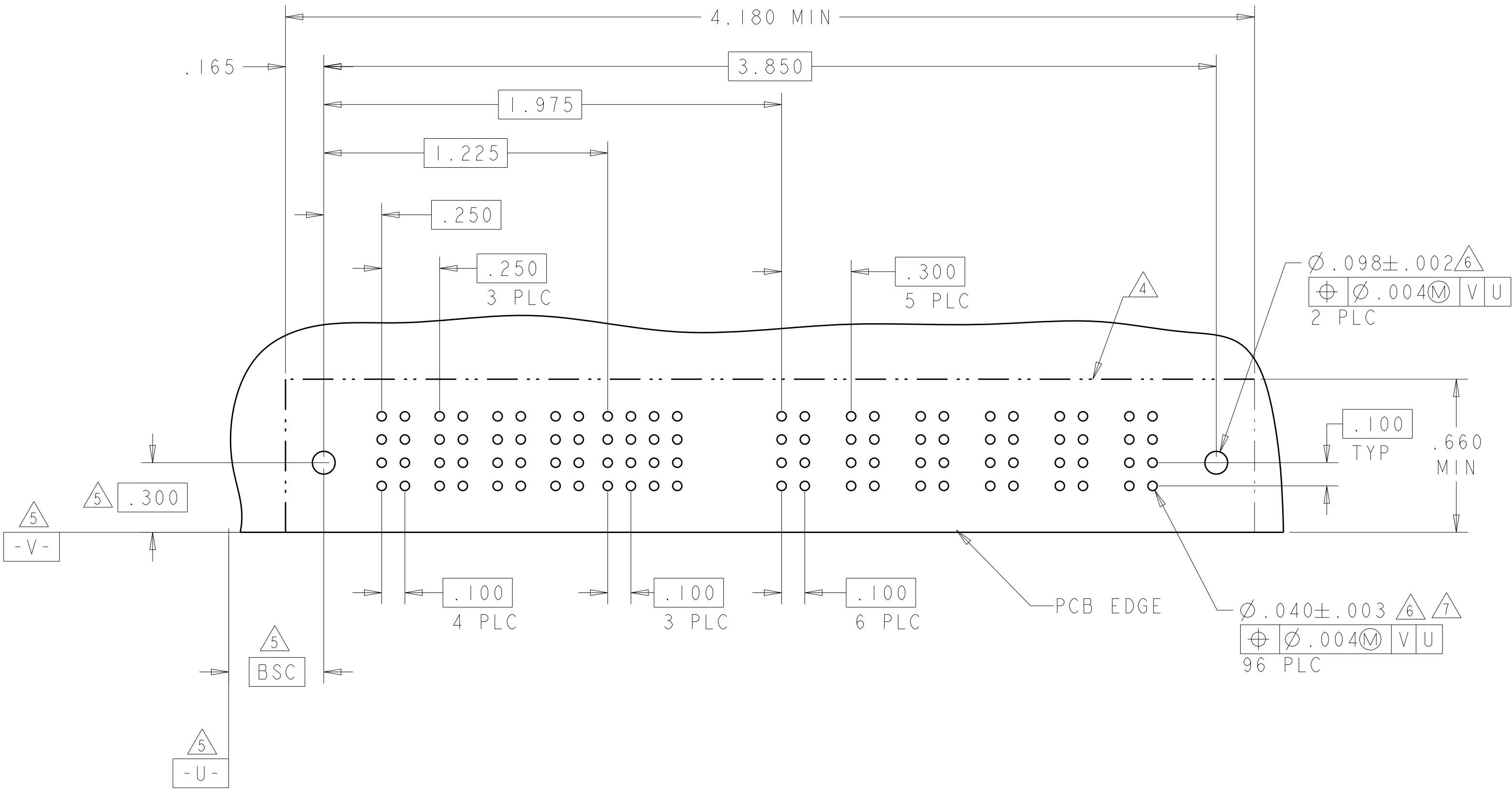
PART NUMBER	ROWS	POWER				SIGNAL						POWER					
		P1	P2	P3	P4	1	2	3	4	5	6	P5	P6	P7	P8		
4-6450120-8	D		PM	PM	PM	PM	J	J	J	J	J	J	PM	PM	PM	PM	
	C						K	K	K	K	K	K					
	B						N	N	N	N	N	N					
	A						S	S	S	S	S	S					
4P + 24S + 4P																	



PART NUMBER	ROWS		POWER				SIGNAL						POWER		
			P1	P2	P3	P4	1	2	3	4	5	6	P5	P6	
2-6450120-5	D		PM	PM	PM	PM	J	J	J	J	J	J	PM	PM	
	C						K	K	K	K	K	K			
	B						N	N	N	N	N	N			
	A						S	S	S	S	S	S			
4P + 24S + 2P															



PART NUMBER	ROWS		POWER				SIGNAL				POWER							
			P1	P2	P3	P4	1	2	3	4	P5	P6	P7	P8	P9	P10		
5-6450120-0	D		PM	PM	PM	PM	J	J	J	J		PM	PM	PM	PM	PM	PM	
	C						K	K	K	K								
	B						N	N	N	N								
	A						S	S	S	S								
4P + 16S + 7ACP																		



THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN: R.GRZYBOWSKI 02FEB05
CHK: M.PERCHEKKE 02FEB05
APVD: M.PERCHEKKE 02FEB05

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

NAME

RIGHT ANGLE HEADER W/GUIDES ASSEMBLY MULTI-BEAM XL

SIZE

CAGE CODE

DRAWING NO

A100779

C=6450120

RESTRICTED TO

-

SCALE

4:1

SHEET

14

OF

24

REV

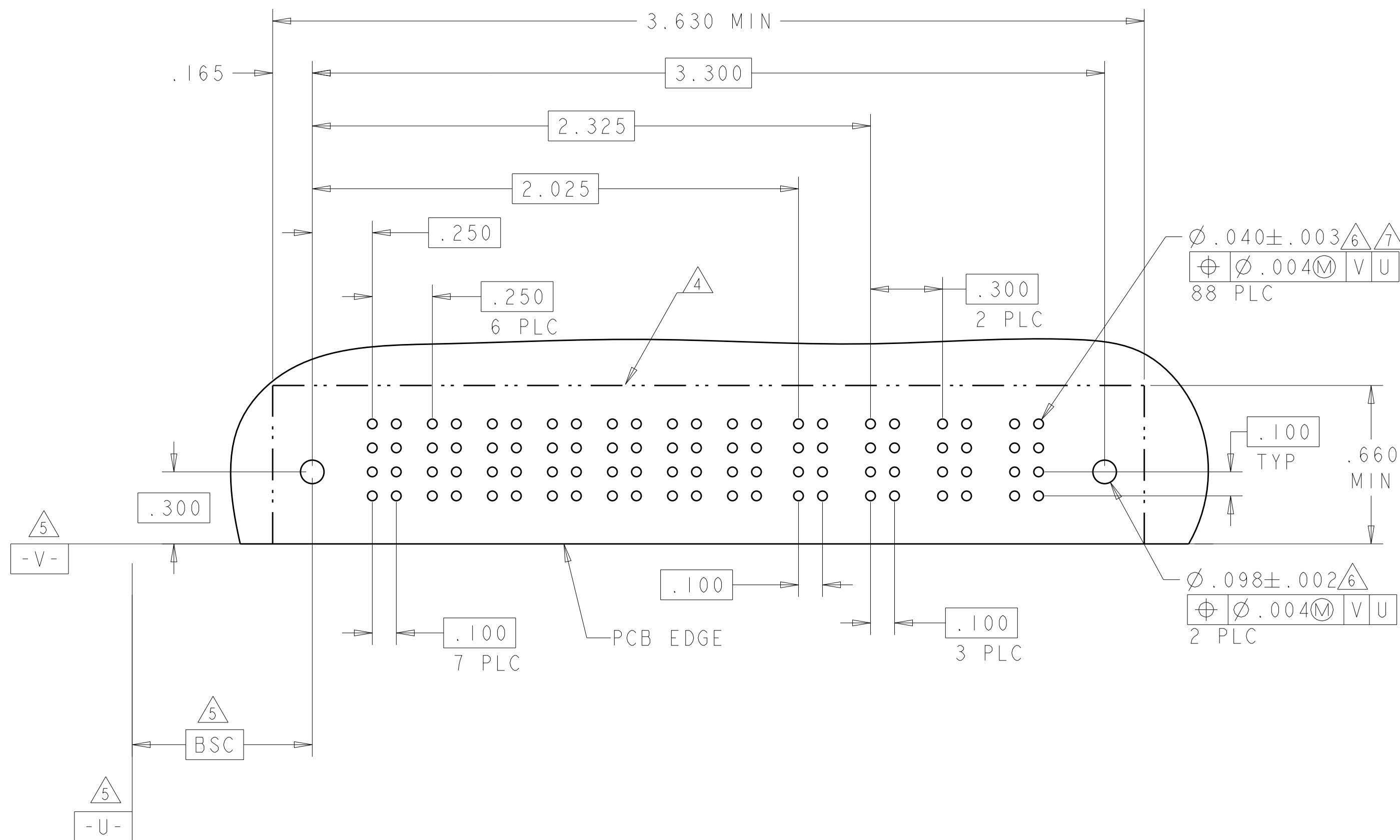
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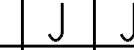
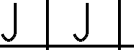
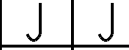
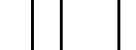
TE Connectivity

Ⓜ

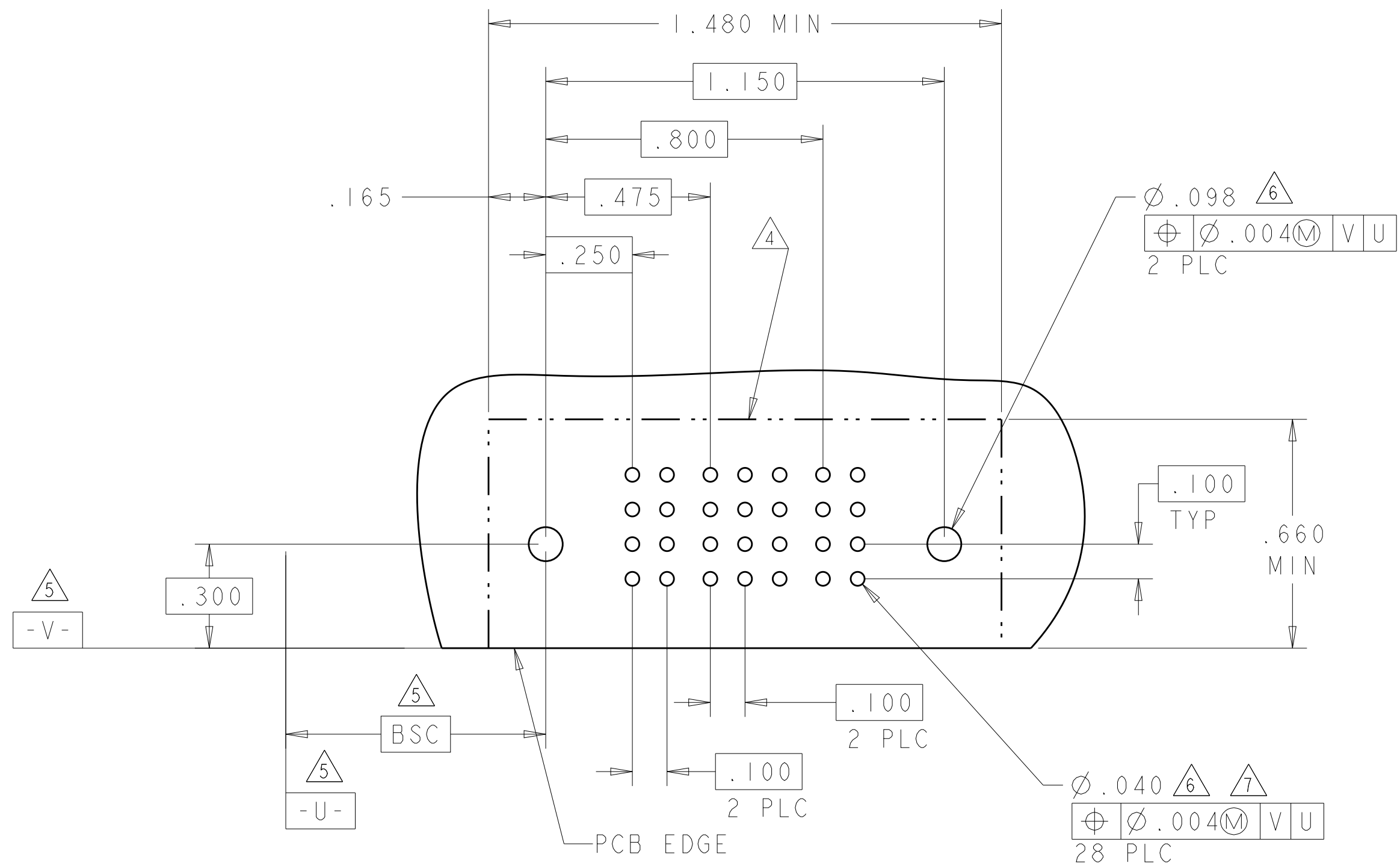
4805 (3/11)

PART NUMBER	ROWS		POWER							SIGNAL		POWER			
			P1	P2	P3	P4	P5	P6	P7	1	2	P8	P9	P10	
5-6450120-5	D		PM	PM	PM	PM	PM	PM	PM	J	J	PM	PM	PM	
	K									K					
	N									N					
	A	HD													
7P + 8S + 3ACP															

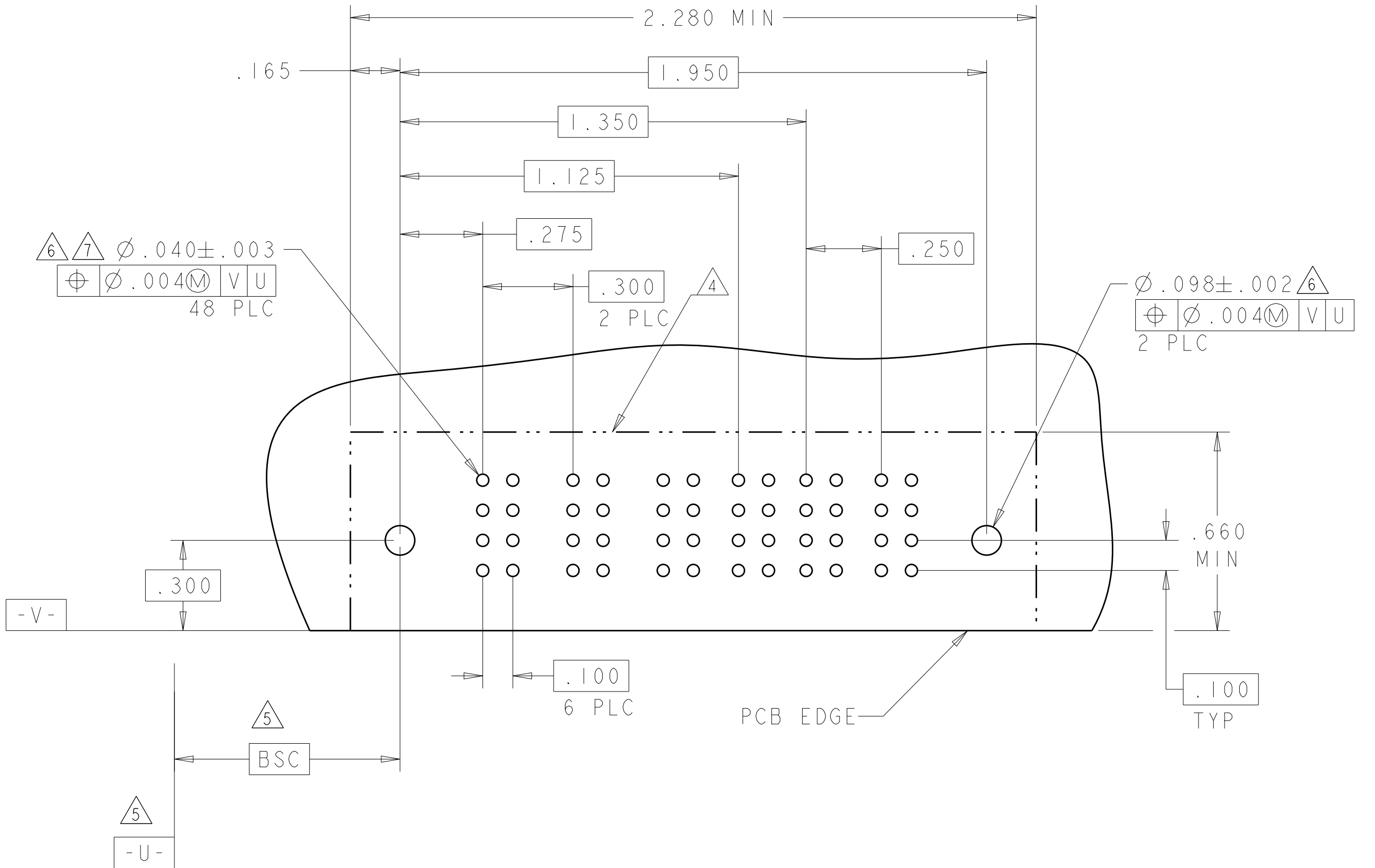
4805 (3/11)

PART NUMBER	ROWS		POWER			SIGNAL									POWER				
			P1	P2	P3	1	2	3	4	5	6	7	8	9	P4	P5	P6		
5-6450120-7	D C B A	 HD	 PM	 PM	 PM	J	J	J	J	J	J	J	J	J	 PM	 PM	 PM	 HD	
						K	K	K	K	K	K	K	K	K					K
						N	N	N	N	N	N	N	N	N					N
						S	S	S	S	S	S	S	S	S					S
3P + 36S + 3P																			

Technical drawing of a PCB layout for a 16x16 LED array. The drawing shows a rectangular PCB with a central array of 256 LEDs (16 rows by 16 columns). Key dimensions include a total width of 3.080 MIN, a central LED array width of 2.750, and a pitch of 0.100 between LEDs. The drawing also shows mounting holes with diameters of 0.040 and 0.098, and various clearance and spacing dimensions. A dashed line indicates the PCB edge.

[illegible]

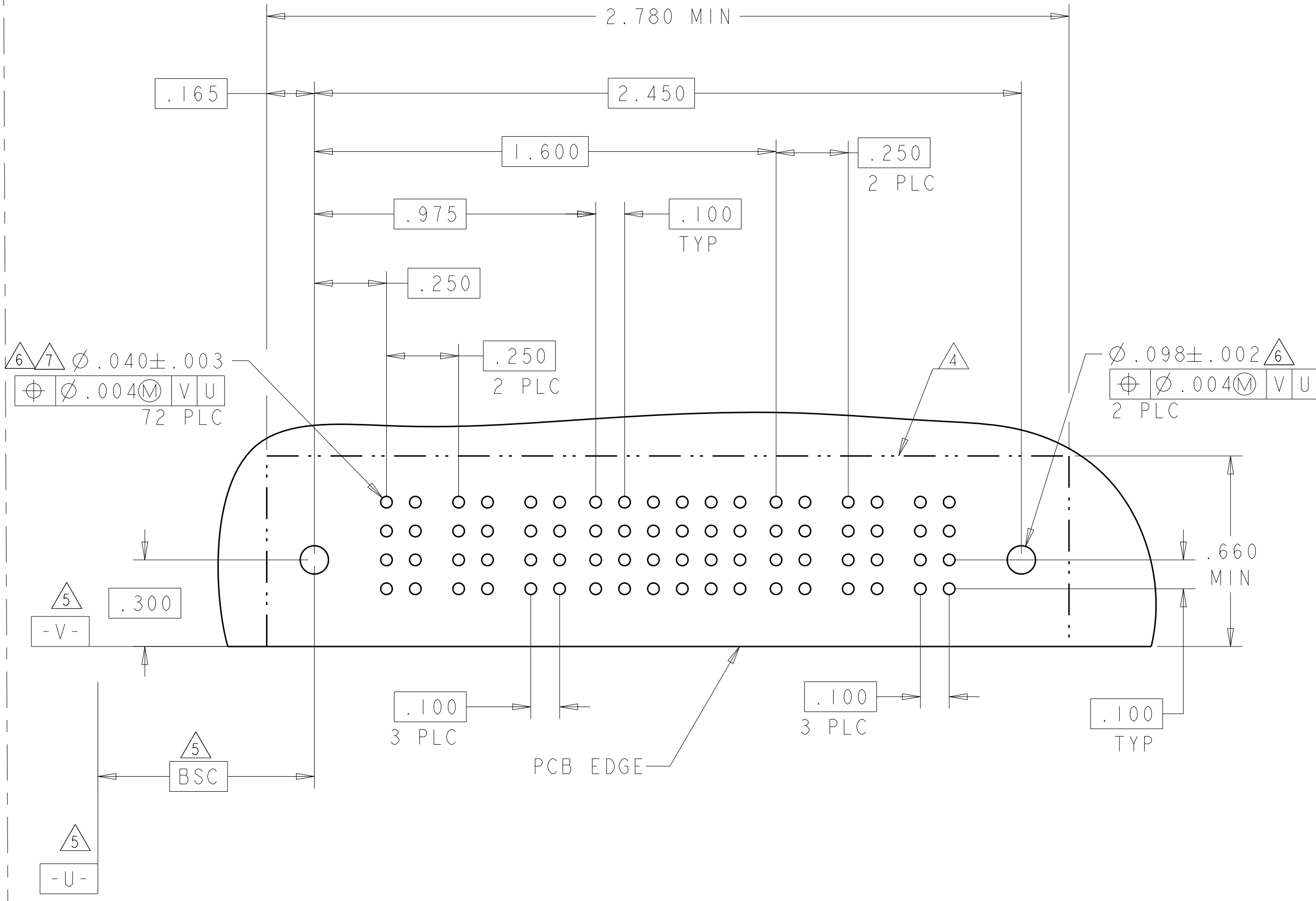
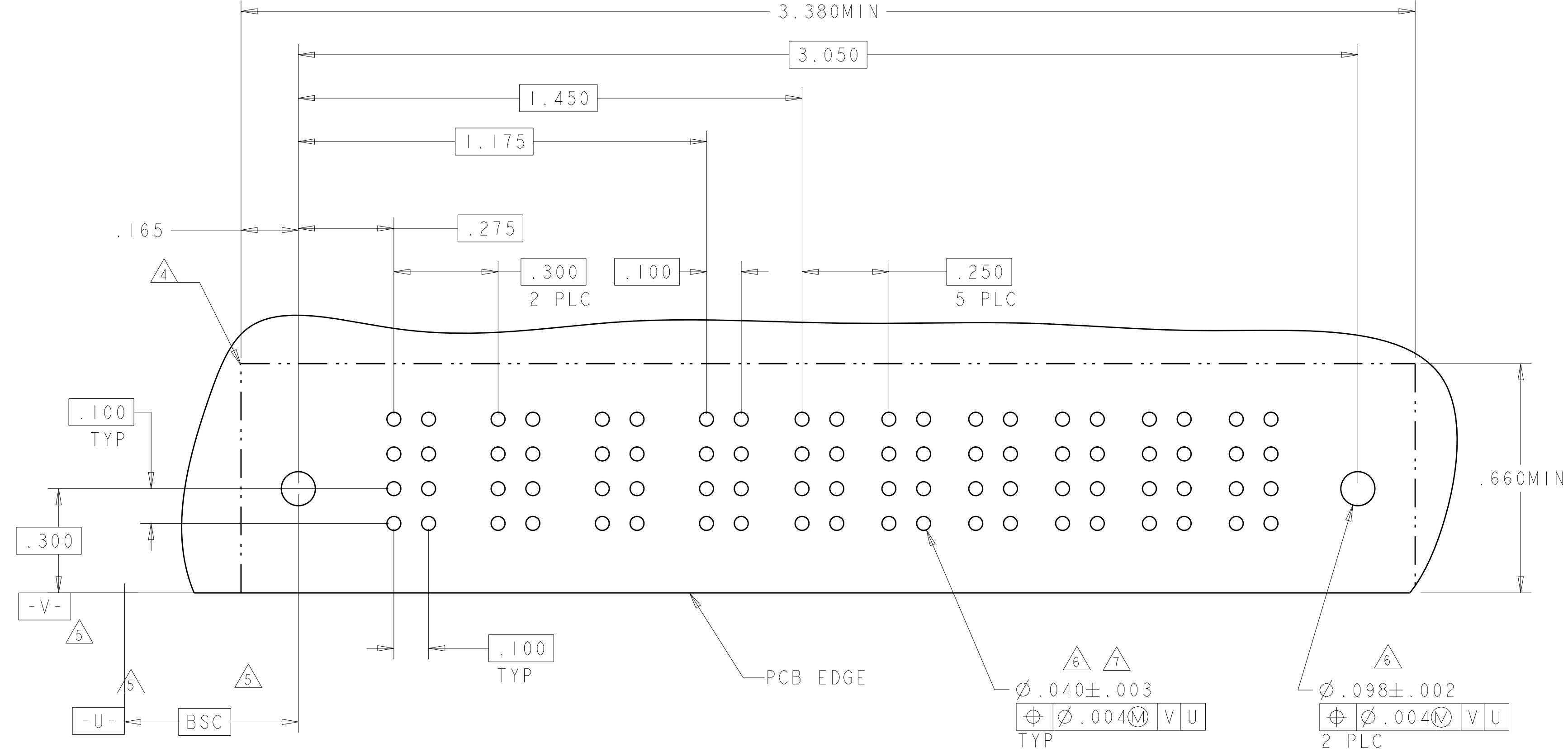
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			P1	P2	P3	1	2	P4	P5	
5-6450120-9	D		PM	PM	PM	J	J	PM	PM	
	K					K				
	N					N				
	H					S				
3ACP + 8S + 2P		HD								HD

4805 (3/11)

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

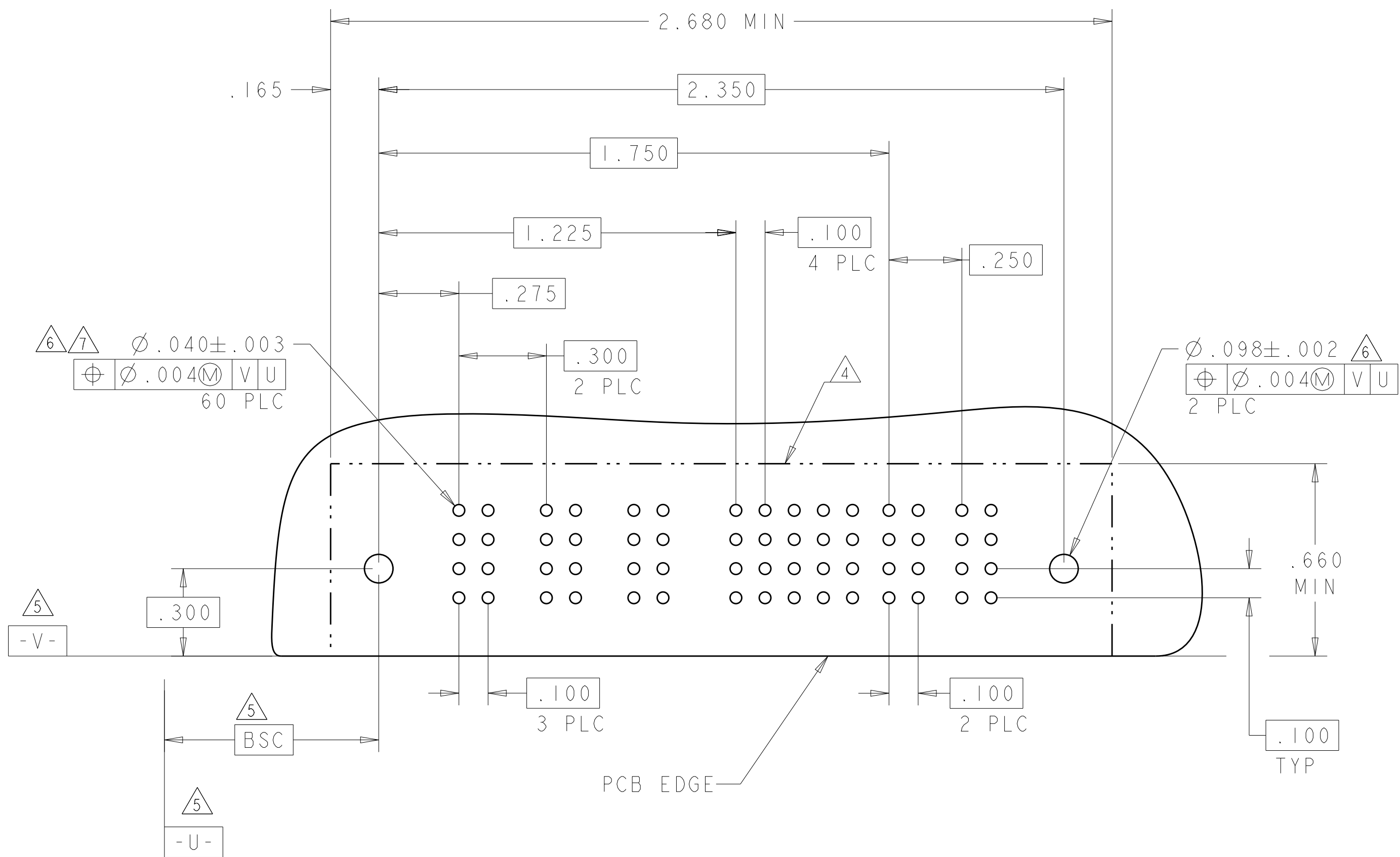
PART NUMBER	ROWS		POWER			SIGNAL		POWER							
			P1	P2	P3	1	2	P4	P5	P6	P7	P8	P9		
6-6450120-0	D C B A		PM	PM	PM	J	J	PM	PM	PM	PM	PM	PM		
						K	K								
						N	N								
						H	S								
3ACP + 8S + 6P		HD													HD

PART NUMBER	ROWS		POWER			SIGNAL						POWER			
			P1	P2	P3	1	2	3	4	5	6	P4	P5	P6	
6-6450120-1	D C B A		PM	PM	PM	J	J	J	J	J	J	PM	PM	PM	
						K	K	F	F	K	K				
						N	N	G	G	N	N				
						S	S	S	S	S	S				
3P + 24S + 3P		HD													HD



PART NUMBER	ROWS		POWER			SIGNAL						POWER			
			P1	P2	P3	1	2	3	4	5	6	P4	P5		
6-6450120-5	D C B A	 HD1	 PM	 PM	 PM		 J	 J	 J	 J	 J		 PM	 PM	 HD
3ACP + 24S + 2P															

L 3

4805 (3/11)

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

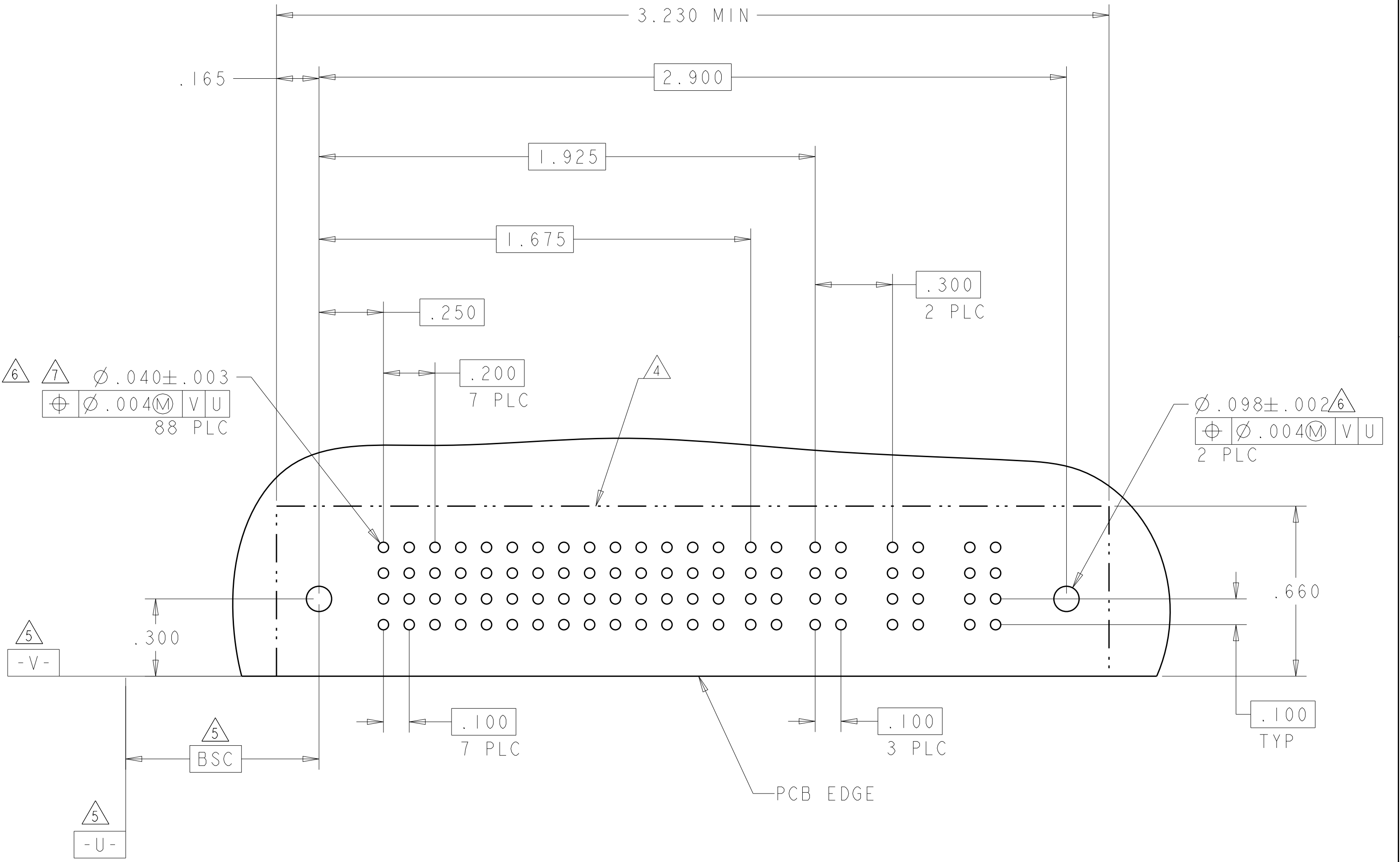
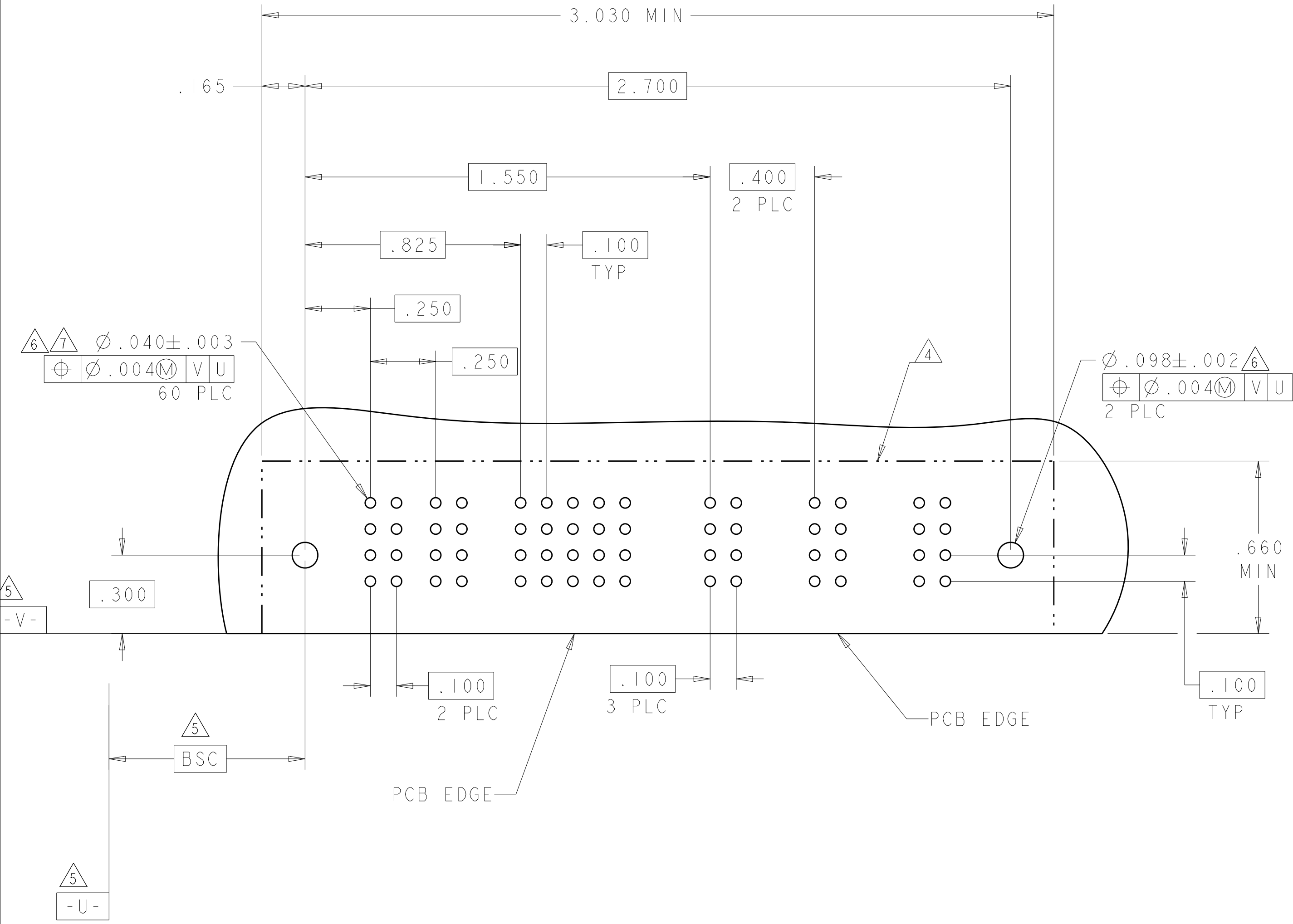
PART NUMBER	ROWS		POWER		SIGNAL						POWER							
			P1	P2	1	2	3	4	5	6	P3	P4	P5	P6	P7	P8		
6-6450120-6	D		PM	PM		J	J	J	J	J		PM		PM		PM		HD
	K				K	K	K	K	K									
	N				N	N	N	N	N									
	S				S	S	S	S	S									
2P + 24S + 6P																		HD

NO CONTACTS LOADED

NO CONTACTS LOADED

PART NUMBER	ROWS		POWER							SIGNAL		POWER			
			P1	P2	P3	P4	P5	P6	P7	1	2	P8	P9	P10	
6-6450120-7	D C B A		PM	PM	PM	PM	PM	PM	PM	E	E	PM	PM	PM	
										F	F				
										G	G				
										H	H				
7HDP + 8S + 3ACP															

L5

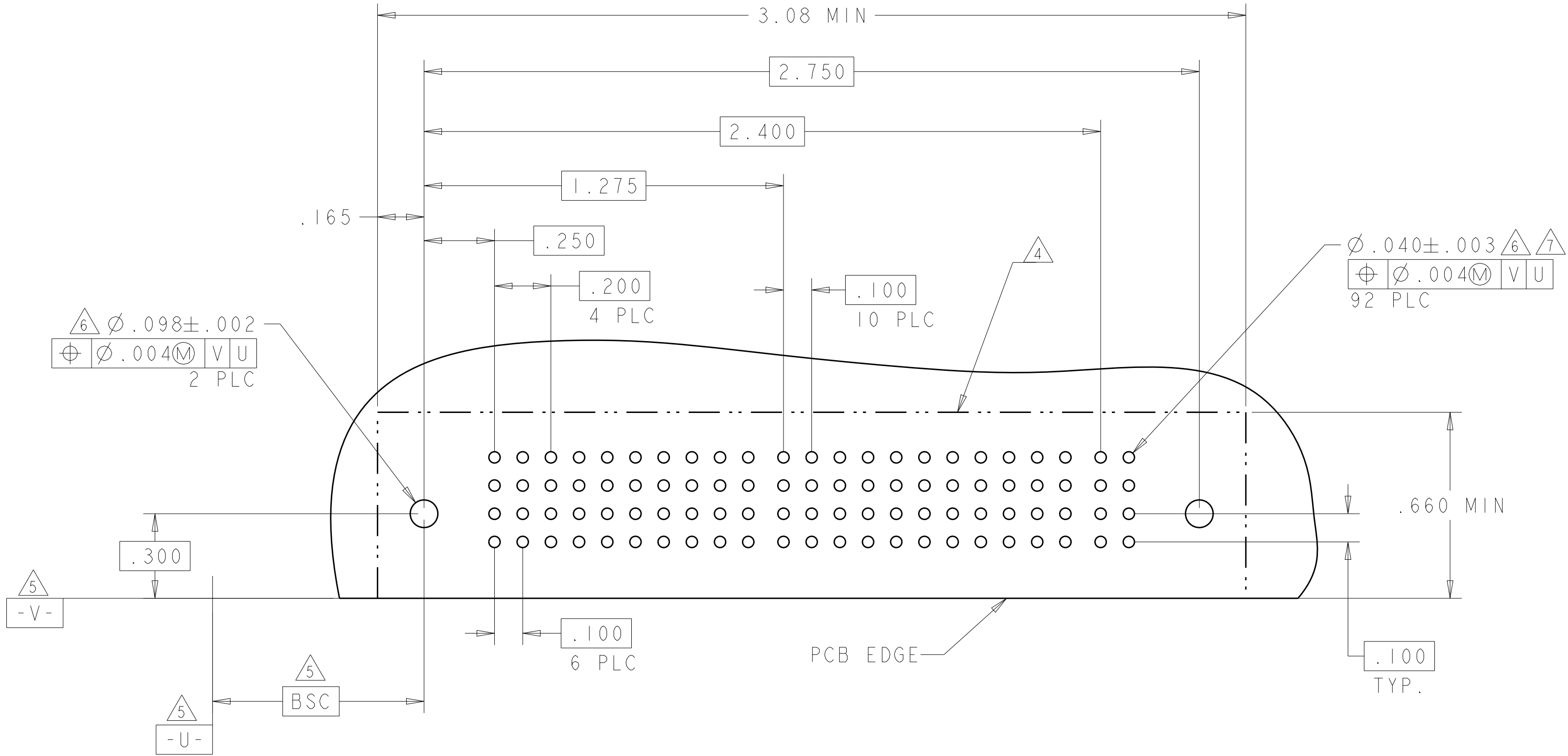
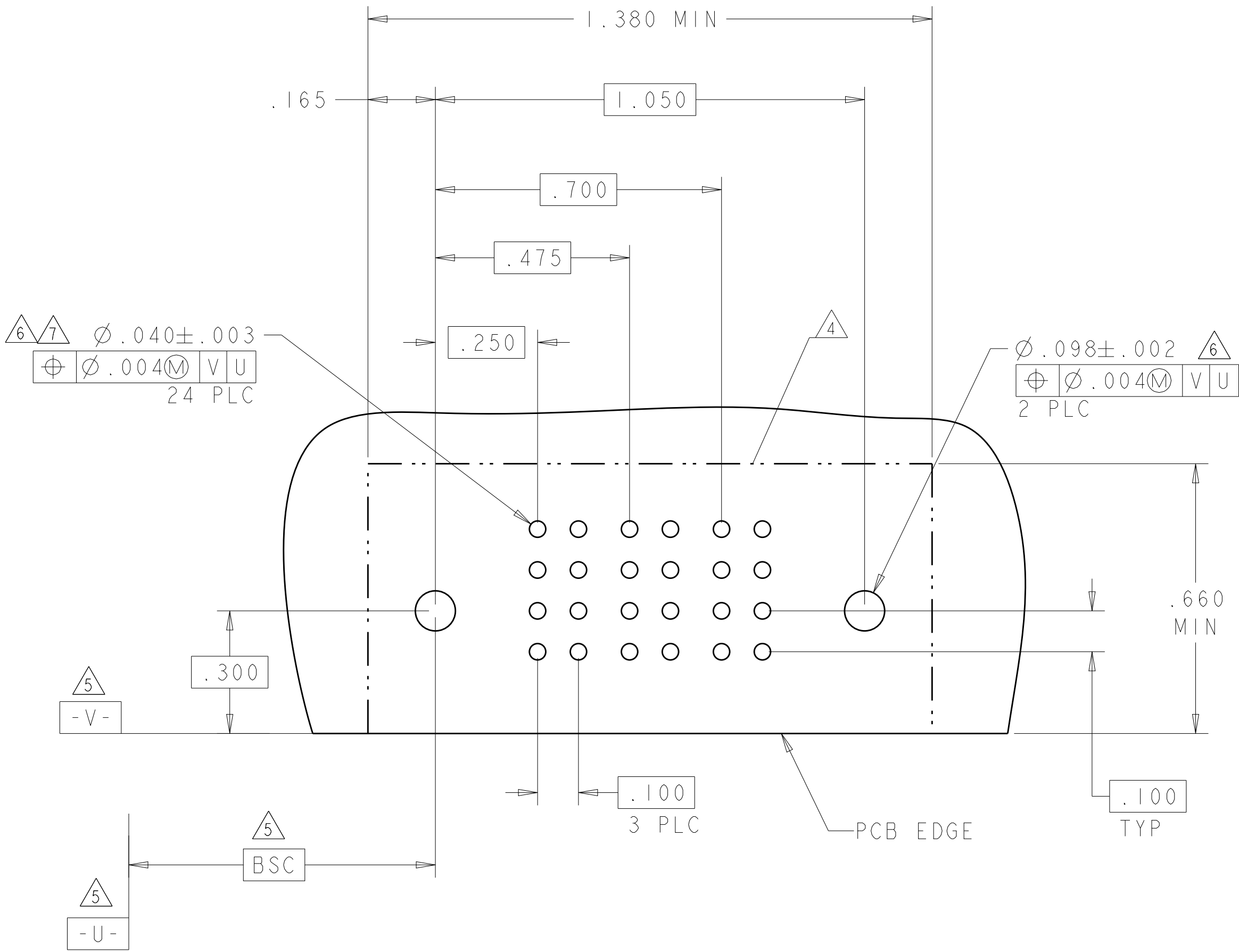


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R. GRZYBOWSKI	02FEB05			TE Connectivity	
DIMENSIONS: INCHES		CHK M. PERCHERKE	02FEB05				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD M. PERCHERKE	02FEB05	NAME RIGHT ANGLE HEADER W/GUIDES ASSEMBLY MULTI-BEAM XL		SIZE A100779	
0 PLC ±.01 1 PLC ±.01 2 PLC ±.01 3 PLC ±.005 4 PLC ±.0020 ANGLES ±2°		PRODUCT SPEC 108-1973		APPLICATION SPEC 114-13038		RESTRICTED TO -	
MATERIAL -		WEIGHT -		CAGE CODE C=6450120		REV M2	
CUSTOMER DRAWING		SCALE 4:1		SHEET 22 OF 24			

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

PART NUMBER	ROWS		POWER	SIGNAL		POWER	
			P1	1	2	P2	
6-6450120-8	D C B A		PM	J	J	PM	
				K	K		
				N	N		
				S	S		
IP + 8S + IP		HD					HD

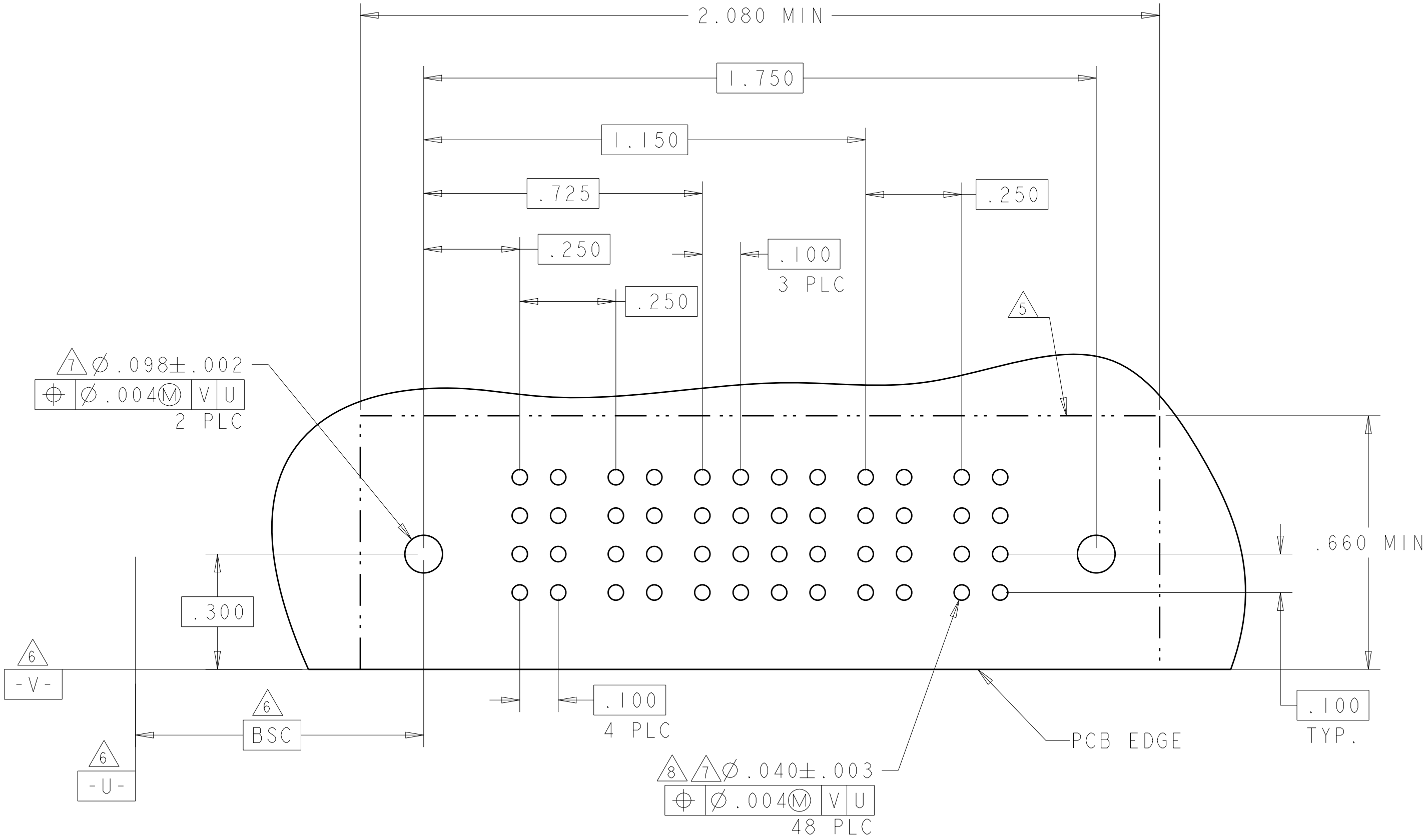
PART NUMBER	ROWS		POWER					SIGNAL											POWER	
			P1	P2	P3	P4	P5	1	2	3	4	5	6	7	8	9	10	11	P6	
7-6450120-0	D C B A		PM	PM	PM		PM	J		J		J		J		E		E	PM	
								G	N		N		N		K	F		F		
								H	H	H	H	H	H	S	S	H		H		
5P + 44S + 1P		HD																		HD

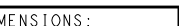


LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-	-	SEE SHEET 1	-	-	-

M2

PART NUMBER	ROWS		POWER		SIGNAL				POWER		
			P1	P2	1	2	3	4	P3	P4	
7-6450120-1	D		PM	PM	E	E	E	E	PM	PM	
	F				F	F	F				
	N				N	N	N				
	H				H	H	H				
2P + 16S + 2P											



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R.GRZYBOWSKI	02FEB05	 TE Connectivity		
		CHK M.PERCHEKKE	02FEB05			
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	RIGHT ANGLE HEADER W/GUIDES ASSEMBLY	
		0 PLC ±.01 1 PLC ±.01 2 PLC ±.01 3 PLC ±.005 4 PLC ±.0020 ANGLES #2°		PRODUCT SPEC	MULTI-BEAM XL	
MATERIAL		APPLICATION SPEC		SIZE	A100779	
		FINISH		CAGE CODE	C=6450120	
		WEIGHT		DRAWING NO	REV M2	
		CUSTOMER DRAWING		SCALE	4:1	
				SHEET	24	
				OF	24	
				REV	M2	

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