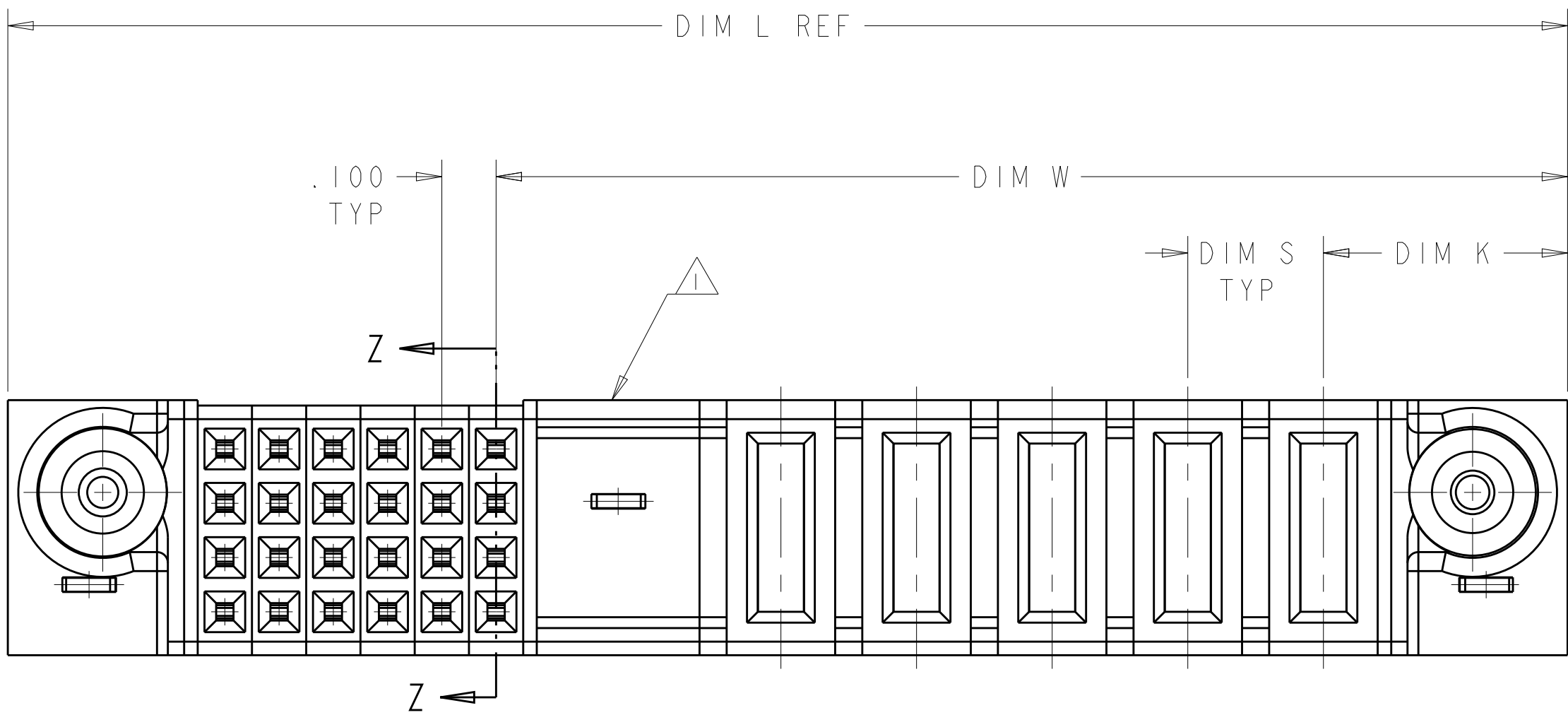
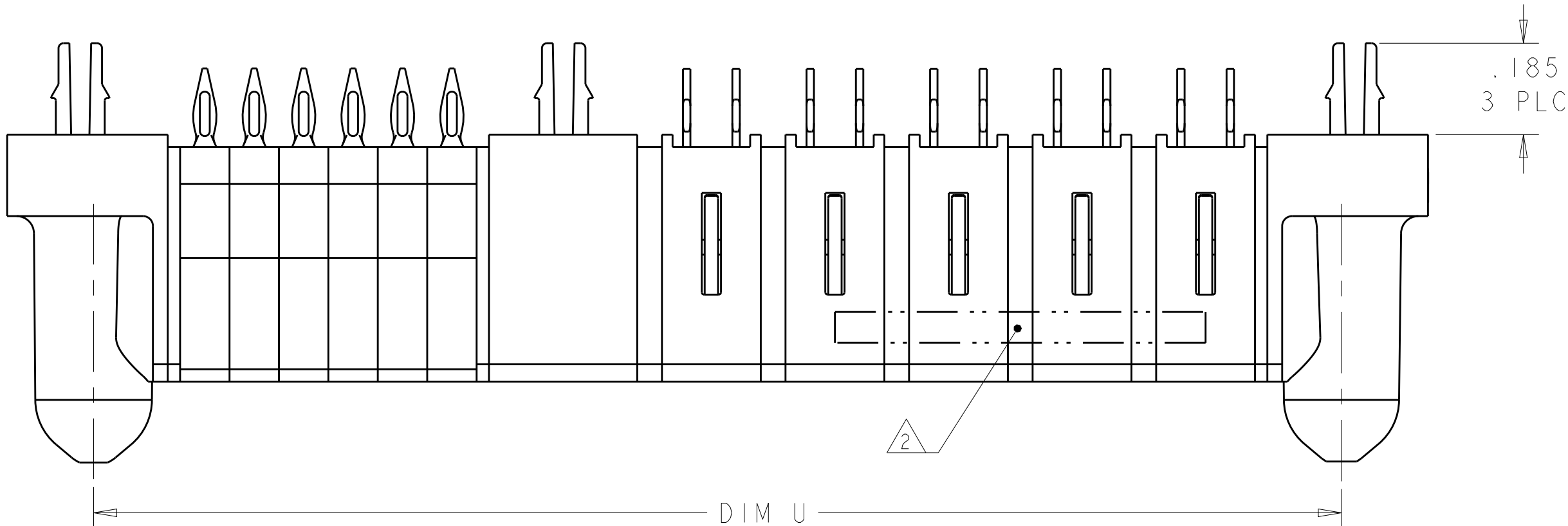
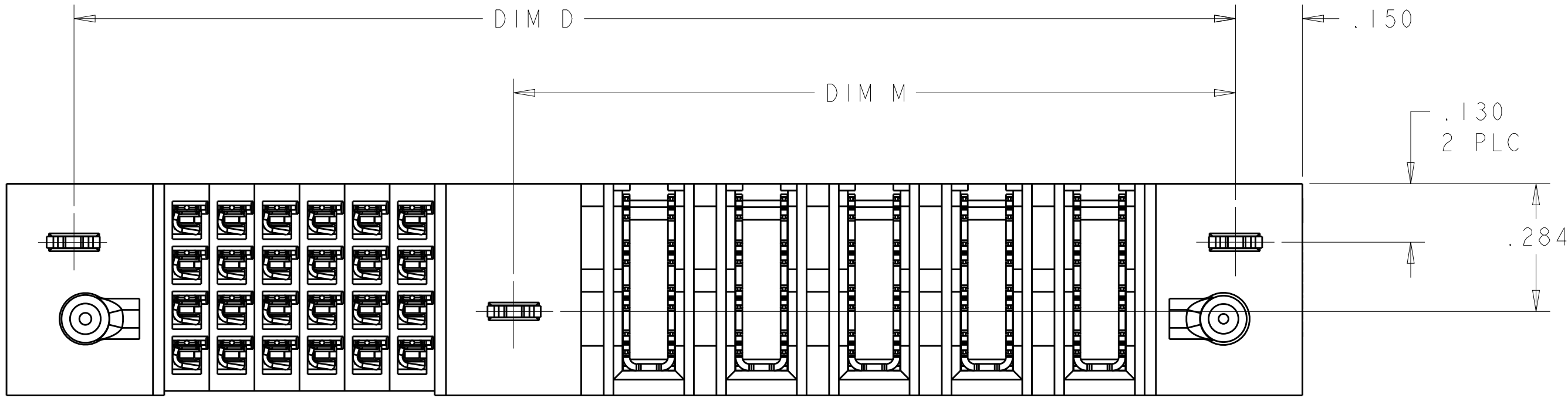
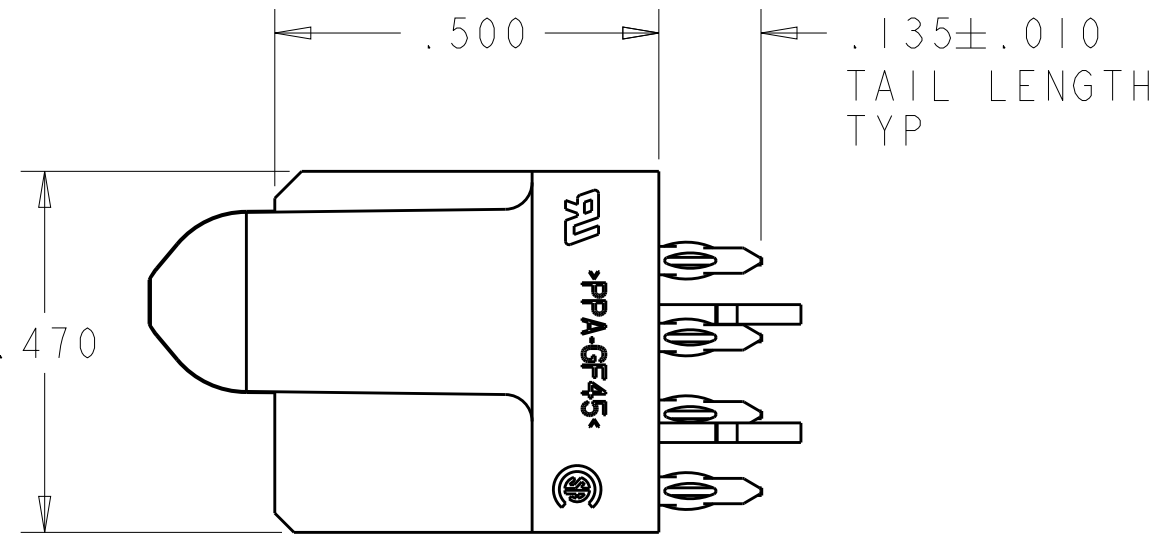
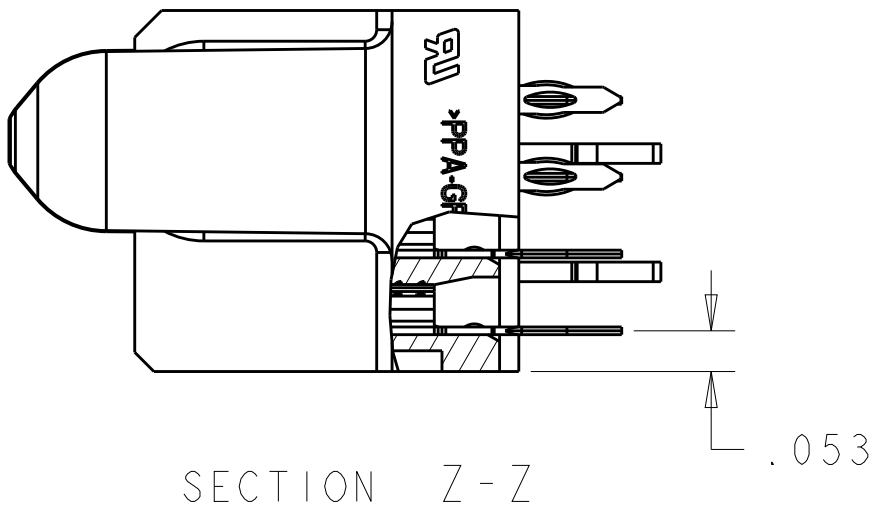


LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
ES	00		G7	REV PER ECR-09-008079	08APR2009	OL	SY
			H	REV PER ECR-12-003783	28FEB2012	CZ	SZ
			H2	ADD NEW PART -29	28JAN2015	AY	SZ



- 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
PARTS UNDER 2.00 LONG MAY BE MARKED ON BOTH SIDES
- 3 MATERIAL: HOUSING - GLASS FILLED HIGH TEMP THERMO PLASTIC, UL94 V-0
SIGNAL CONTACT - HIGH CONDUCTIVITY COPPER ALLOY
POWER CONTACT - HIGH CONDUCTIVITY COPPER ALLOY
- 4 CONTACT PLATING: NOBLE METAL 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 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 DIMENSIONS PLEASE REFER TO TABLE FOR DETAIL.

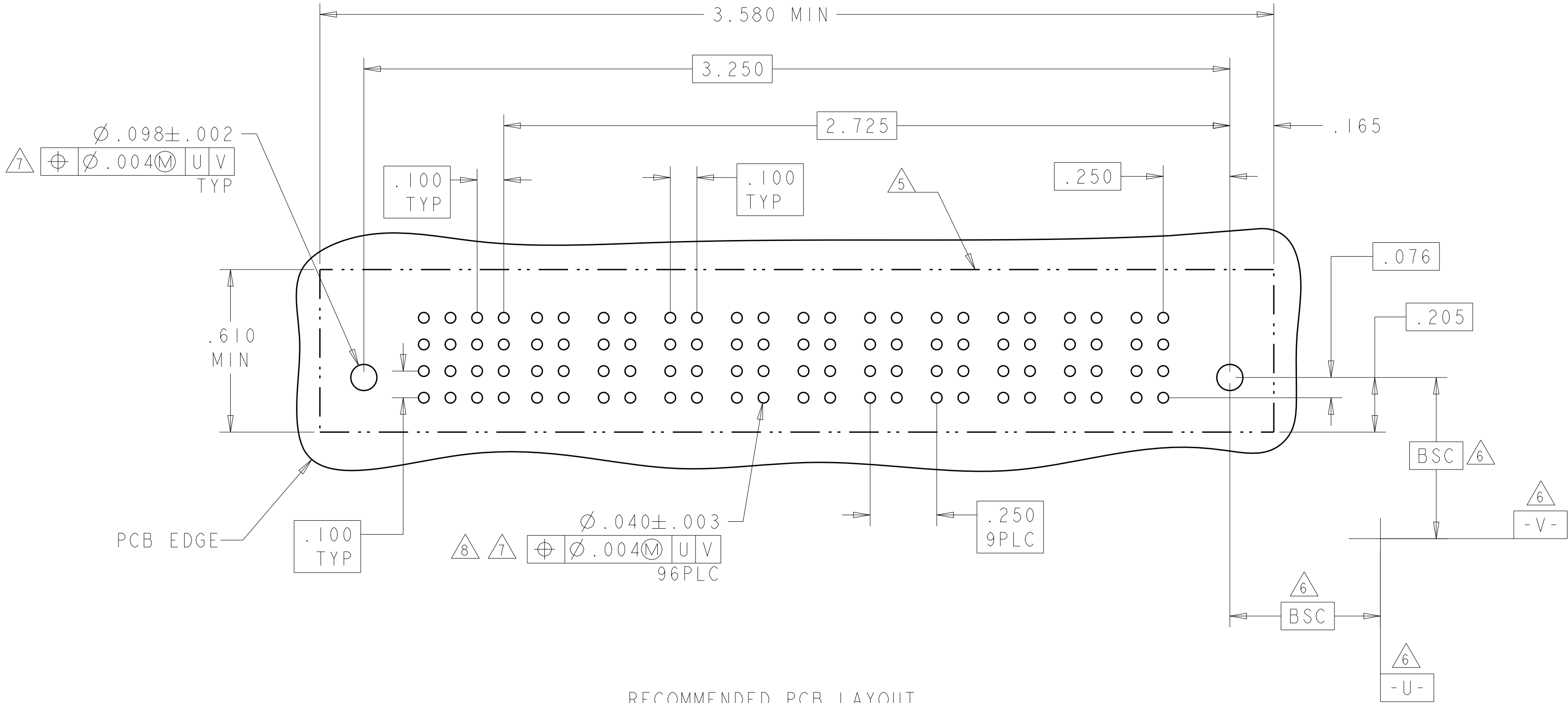


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R.GRZYBOWSKI CHK M.PERCHERKE APVD M.PERCHERKE	28FEB05 28FEB05	TE Connectivity	
DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED:	PRODUCT SPEC	NAME	VERTICAL RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL	
	0 PLC ±.01 1 PLC ±.01 2 PLC ±.01 3 PLC ±.005 4 PLC ±.0020 ANGLES ±2° FINISH	108-1973 APPLICATION SPEC	SIZE	CAGE CODE	DRAWING NO
MATERIAL	3	114-13038	A1	00779	6450542
CUSTOMER DRAWING		WEIGHT	SCALE	4:1	SHEET 1 OF 10
		REV	H2		

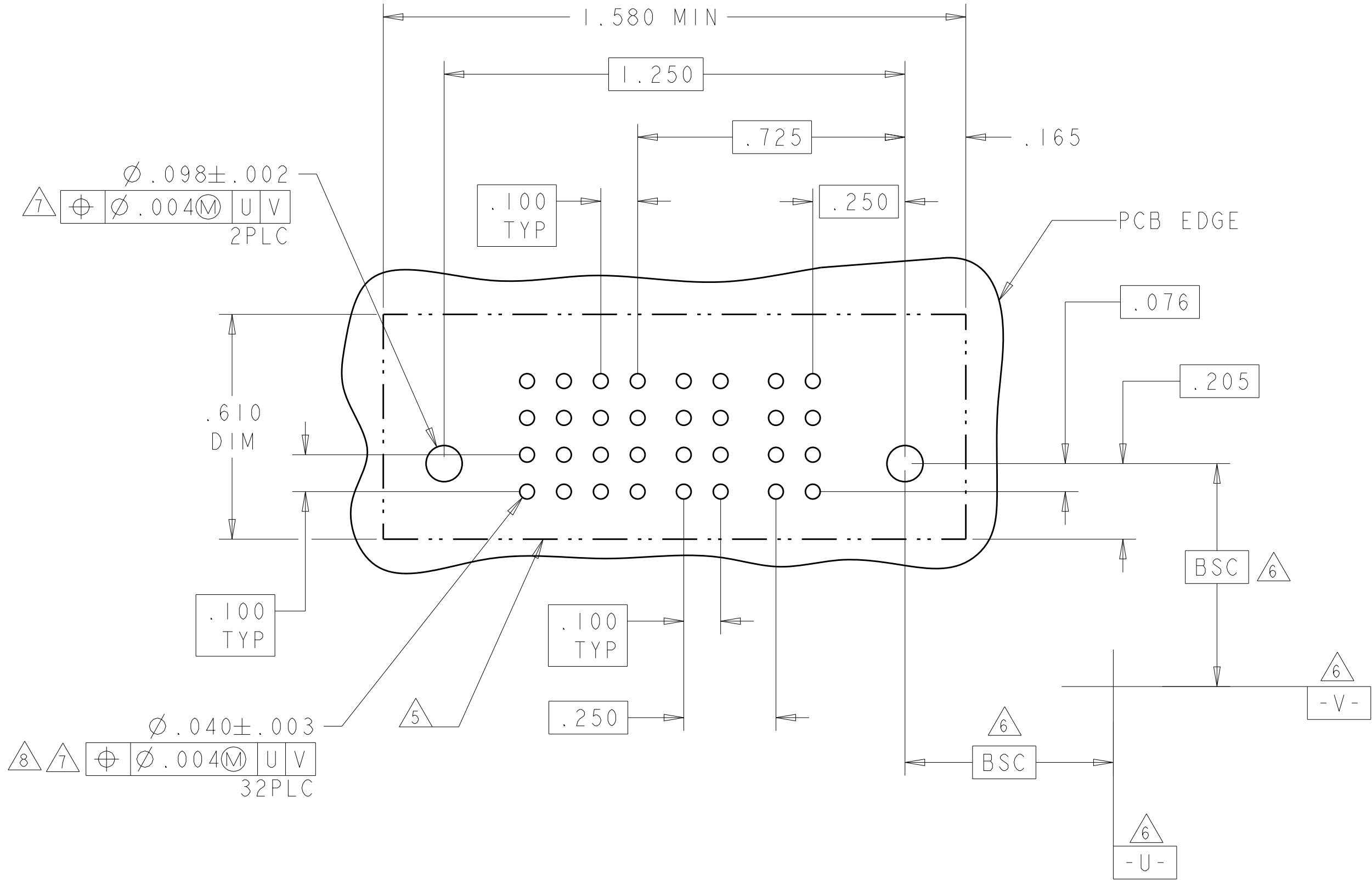
LOC		DIST		REVISIONS					
ES		00		P	LTR	DESCRIPTION	DATE	DWN	APVD
					-	SEE SHEET I	-	-	-
							</		

PART NUMBER	ROWS		SIGNAL				POWER											
			4	3	2	1	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1		
2-6450542-2	D C B A		AP	AP	AP	AP												
			AP	AP	AP	AP												
			AP	AP	AP	AP												
			AP	AP	AP	AP												
10P + 16S																		

PART NUMBER	ROWS		SIGNAL				POWER		
			4	3	2	1	P2	P1	
2-6450542-3	D C B A		AP	AP	AP	AP			
			AP	AP	AP	AP			
			AP	AP	AP	AP			
			AP	AP	AP	AP			
			AP	AP	AP	AP			
2P + 16S									



RECOMMENDED PCB LAYOUT
6450542-22



RECOMMENDED PCB LAYOUT
6450542-23

H2	RECOMMENDED PCB LAYOUT 6450542-23							
	1.500	.250	1.375	1.550	-	1.850	.450	4P + 8S
	4.425	.200	2.200	4.475	-	4.775	.450	9P + 92S
	3.350	.200	2.825	3.400	-	3.700	.450	12HDP + 24S
	2.825	.250	2.300	2.875	-	3.175	.475	3ACP + 4P + 24S
	1.200	.250	.875	1.250	-	1.550	.450	2P + 16S
	3.200	.250	2.875	3.250	-	3.550	.450	10P + 16S
	2.300	.250	1.875	2.350	-	2.650	.450	6P + 20S
	1.800	.250	1.275	1.850	-	2.150	.450	4P + 24S
	2.900	.250	2.375	2.950	-	3.250	.450	8P + 24S
	2.100	.250	1.375	2.150	-	2.450	.450	4P + 32S
	2.100	.250	1.875	2.150	-	2.450	.450	6P + 12S
	2.900	.200	2.425	3.000	-	3.300	.450	10HDP + 24S
	2.000	.250	.875	-	-	2.350	.450	2P + 48S
	5.900	.250	5.375	5.950	-	6.250	.450	20P + 24S
	1.400	.250	.875	1.450	-	1.750	.450	2P + 24S
	1.100	-	.575	1.150	-	1.450	.425	1P + 24S
	4.425	.250	3.875	4.475	-	4.775	.450	14P + 24S
	3.050	.250	2.125	3.100	-	3.400	.450	7P + 40S
	3.800	-	3.550	3.850	-	4.150	.475	11P + 12S
	3.800	-	3.550	3.850	-	4.150	.475	11P + 12S
	3.000	.250	2.375	3.050	-	3.350	.450	8P + 28S
	1.600	.250	1.375	1.650	-	1.950	.450	4P + 12S
	DIM U	DIM S	DIM W	DIM D	DIM M	DIM L	DIM K	DESCRIPTION
								PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R. GRZYBOWSKI CHK M. PERCHERKE	28FEB95 28FEB05
DIMENSIONS: INCHES		NAME	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±.01 1 PLC ±.01 2 PLC ±.01 3 PLC ±.005 4 PLC ±.0020 ANGLES ±.0020		PRODUCT SPEC 108-1973	
MATERIAL		APPLICATION SPEC 114-13038	
FINISH		WEIGHT	
CUSTOMER DRAWING		SCALE 4:1	
SIZE		CAGE CODE	
DRAWING NO		SHEET 2 OF 10	
REV H2		REV H2	

Technical drawing of a mechanical part, showing a top view. The drawing includes dimensions and tolerances for various features:

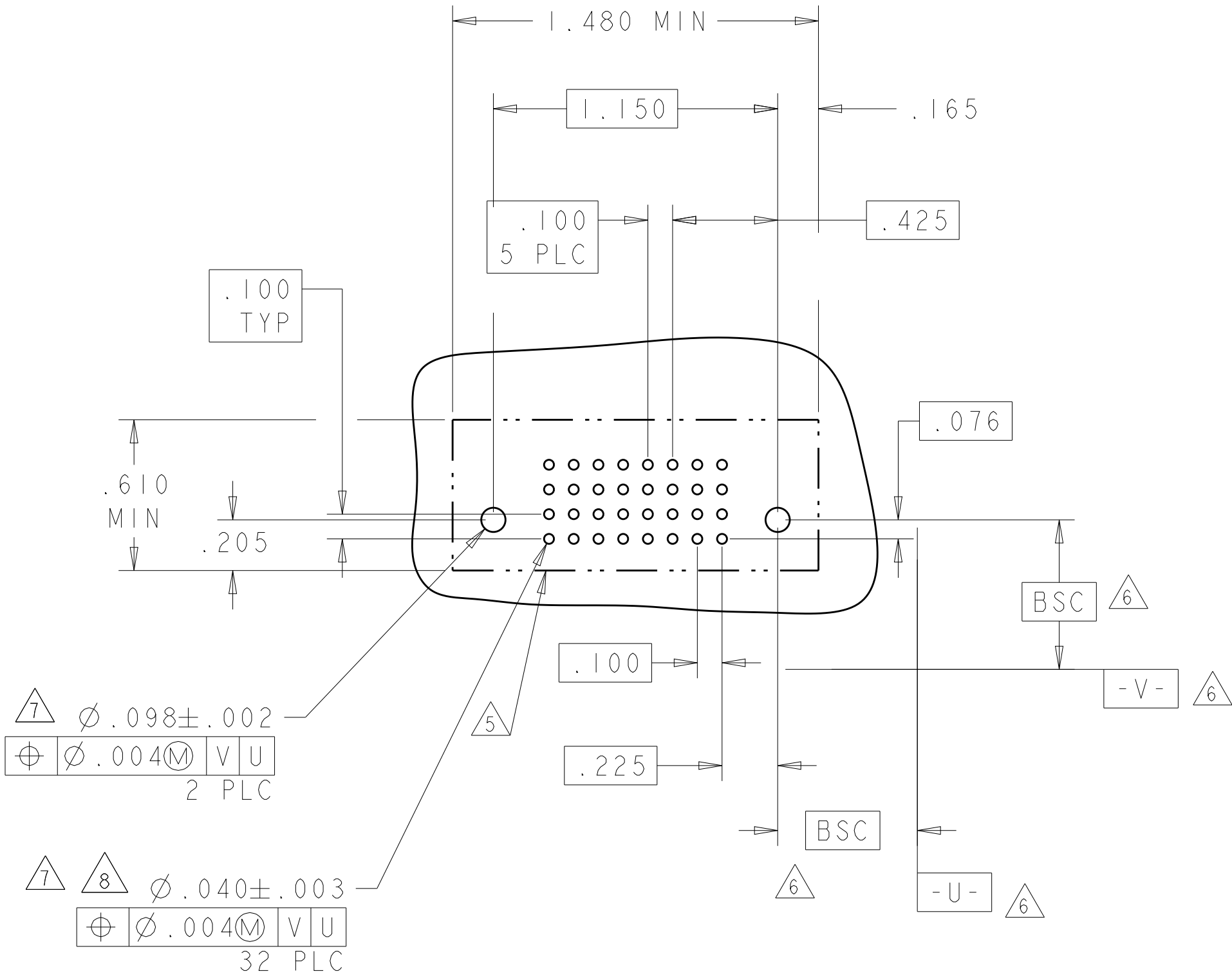
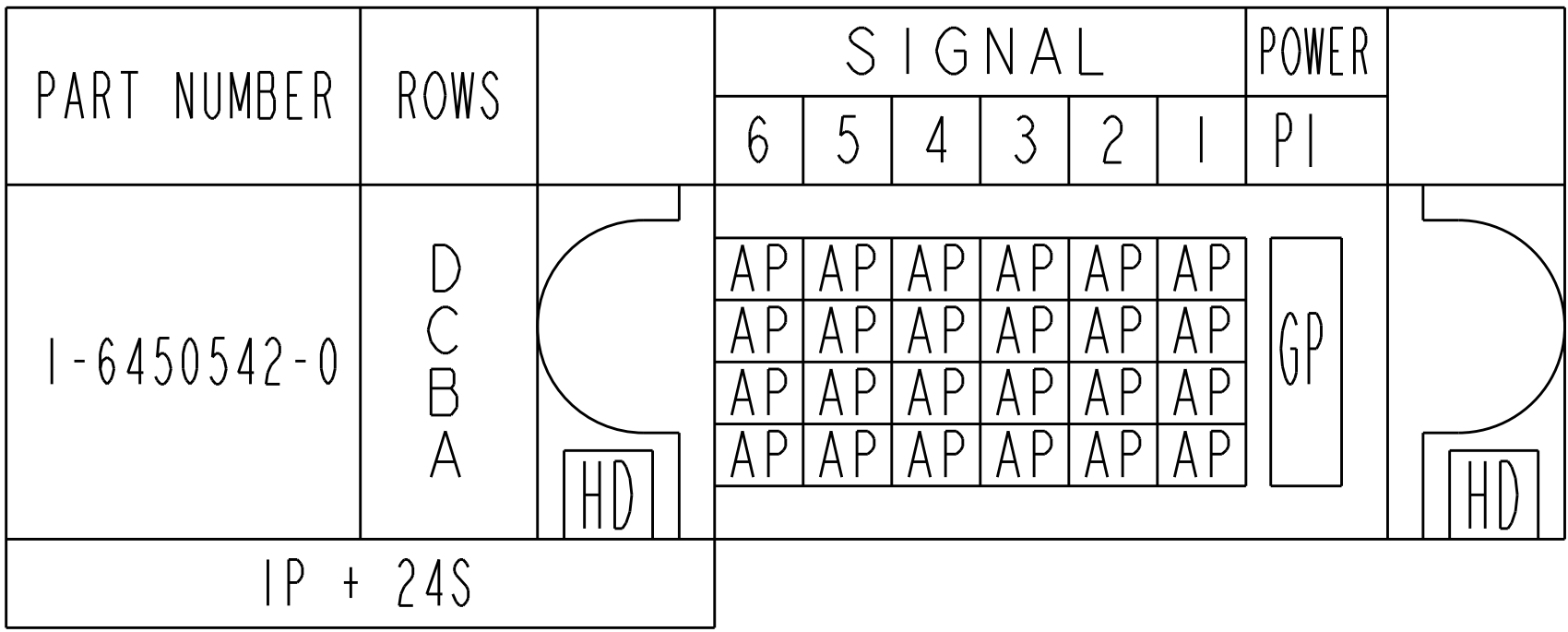
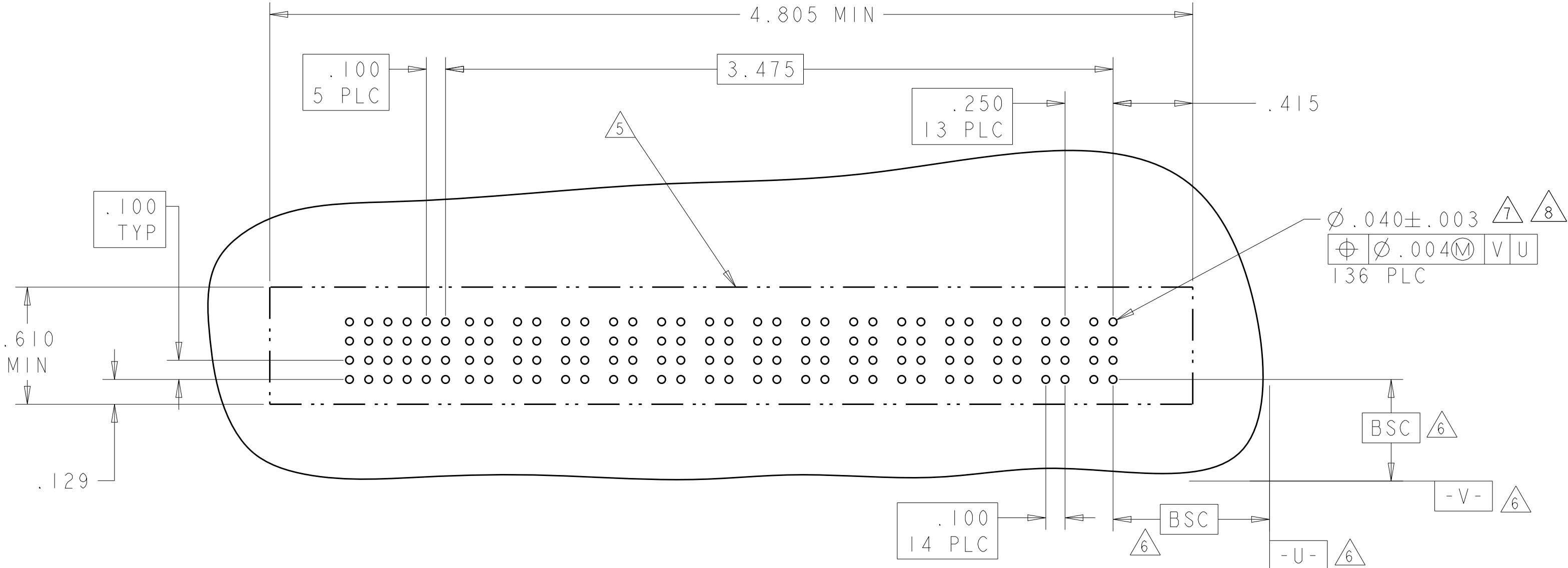
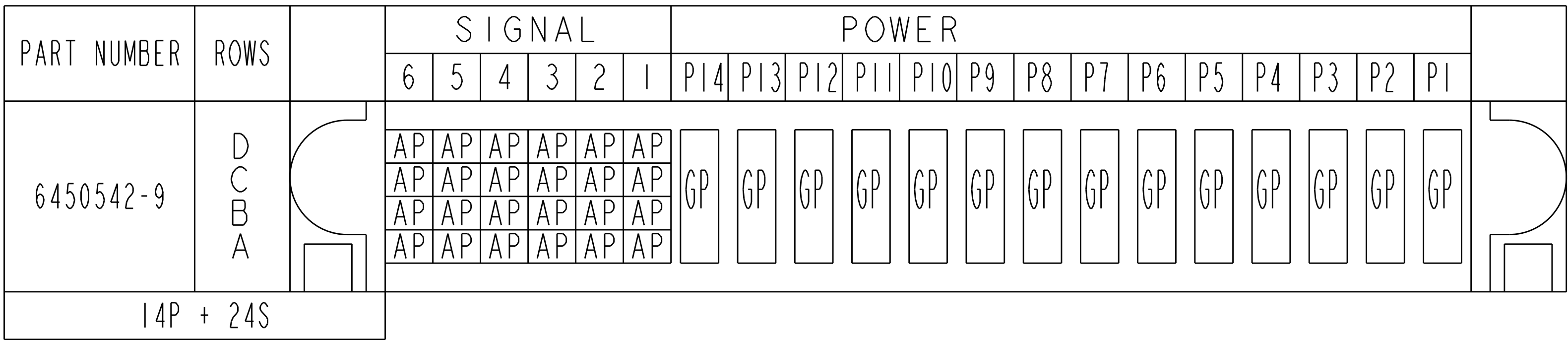
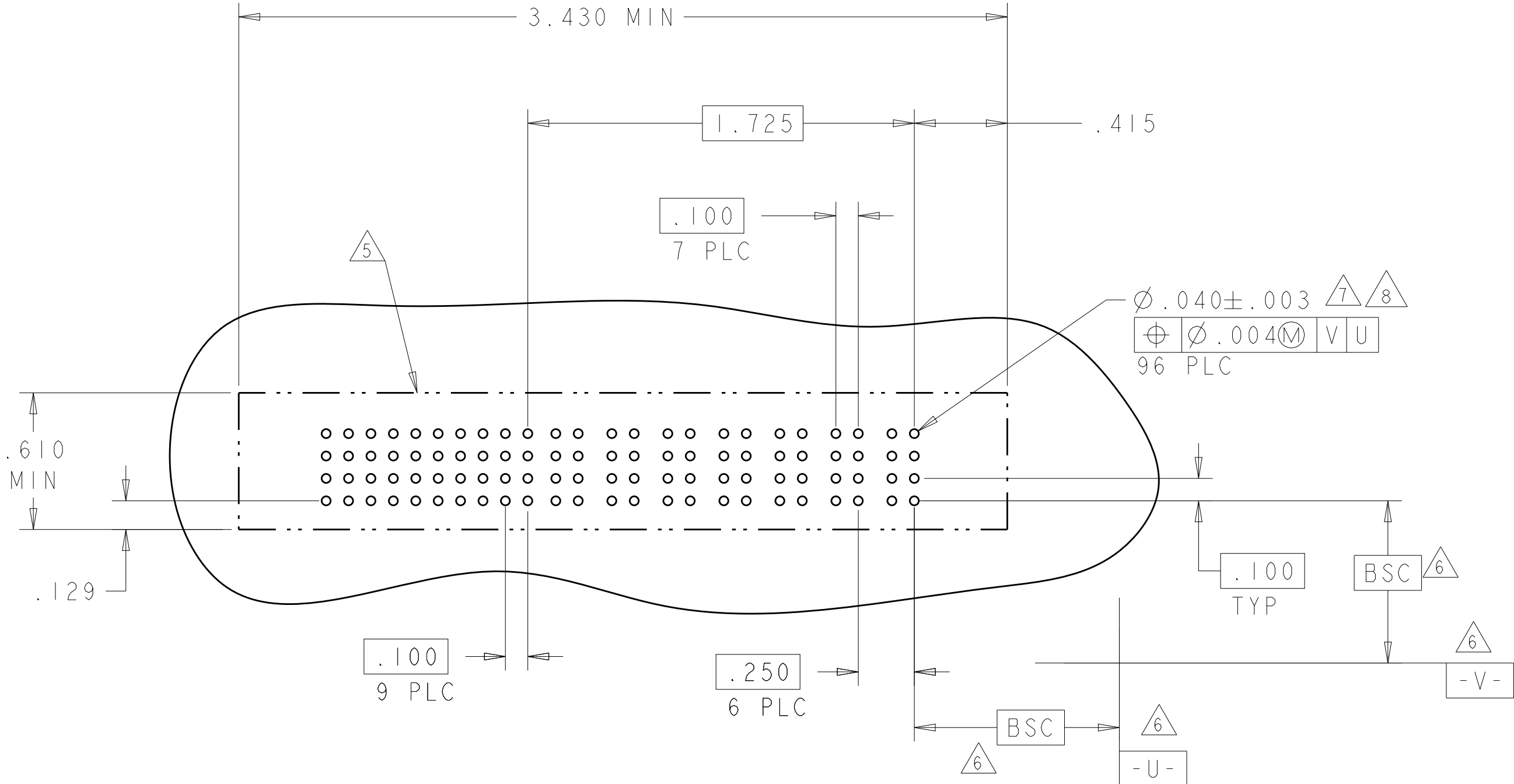
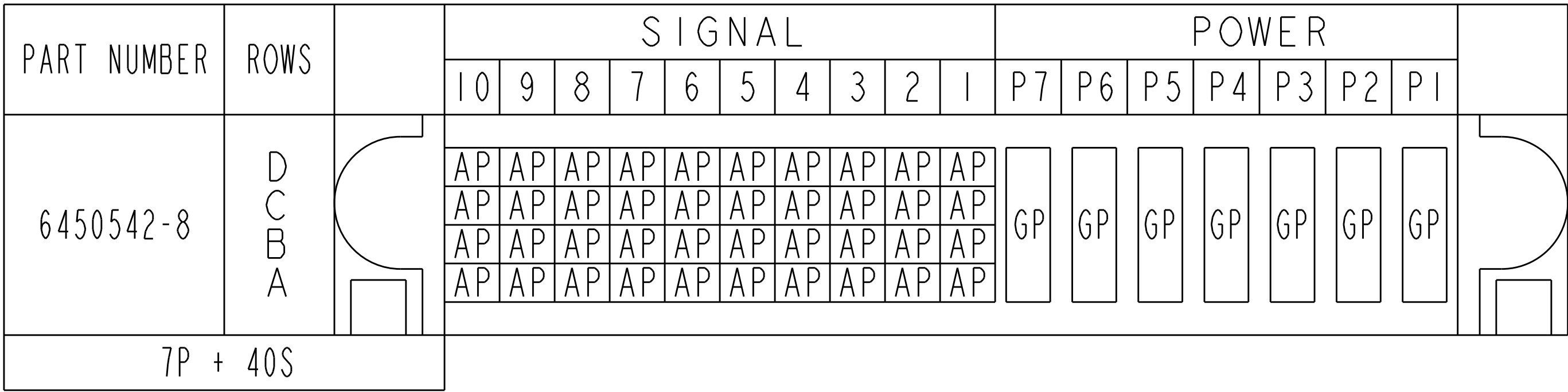
- Overall width: 3.380 MIN
- Overall height: .610 MIN
- Top edge dimensions: 3.050, 2.225, .250, .100 (8 PLC), .040 ± .003 (7, 8), .165
- Bottom edge dimensions: .205, .100 (6 PLC), .250 (7 PLC), .076, .100 (TYP), .098 ± .002 (7), .004 (M) (V, U) (2 PLC)
- Internal features: A central rectangular area with a grid of holes, a circular hole on the left, and a circular hole on the right.
- Surface finish: A surface finish symbol (triangle with 5) is indicated on the top edge.
- Material: The material is identified as 6061-T6 ALUMINUM in the title block.

PART NUMBER	ROWS		SIGNAL			POWER										
			3	2	1	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	
6450542-4	D C B A		AP	AP	AP	GP	GP		GP		GP	GP		GP		
			AP	AP	AP											
			AP	AP	AP											
			AP	AP	AP											
IIP + I2S																

AP	SIGNAL PRESS FIT
GS	POWER PRESS FIT, STD
GP	POWER PRESS FIT, MFBL
CODE	TAIL LENGTH

4805 (3/11)

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



THIS DRAWING IS A CONTROLLED DOCUMENT.

OWN: R. GRZYBOWSKI 28FEB95
CHK: M. PERCHERKE 28FEB05
APVD: M. PERCHERKE

PRODUCT SPEC: 108-1973
APPLICATION SPEC: 114-13038
WEIGHT: -
CUSTOMER DRAWING

DIMENSIONS: INCHES

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

MATERIAL: -
FINISH: -

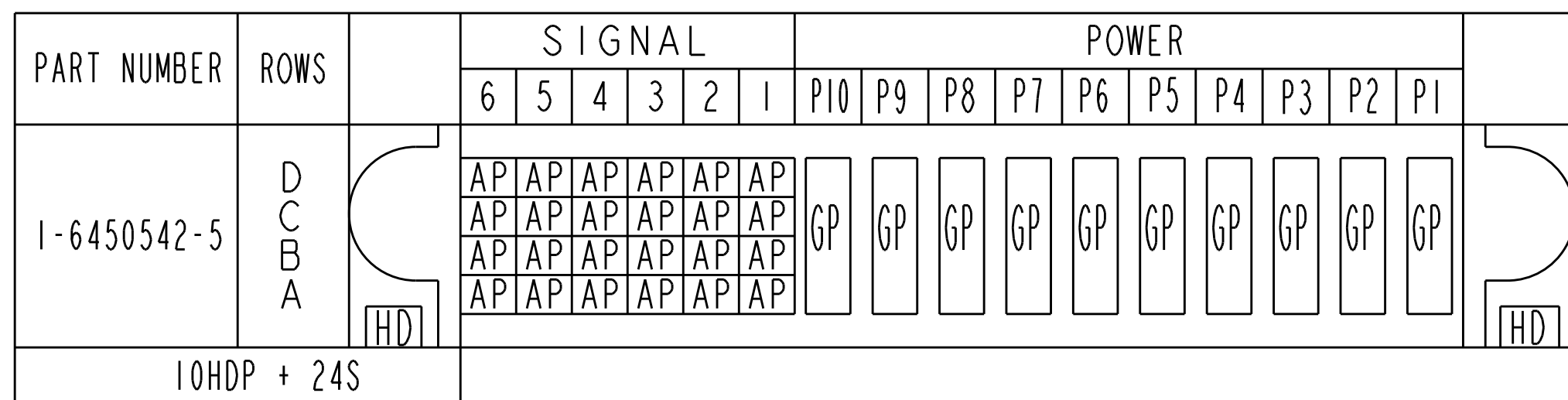
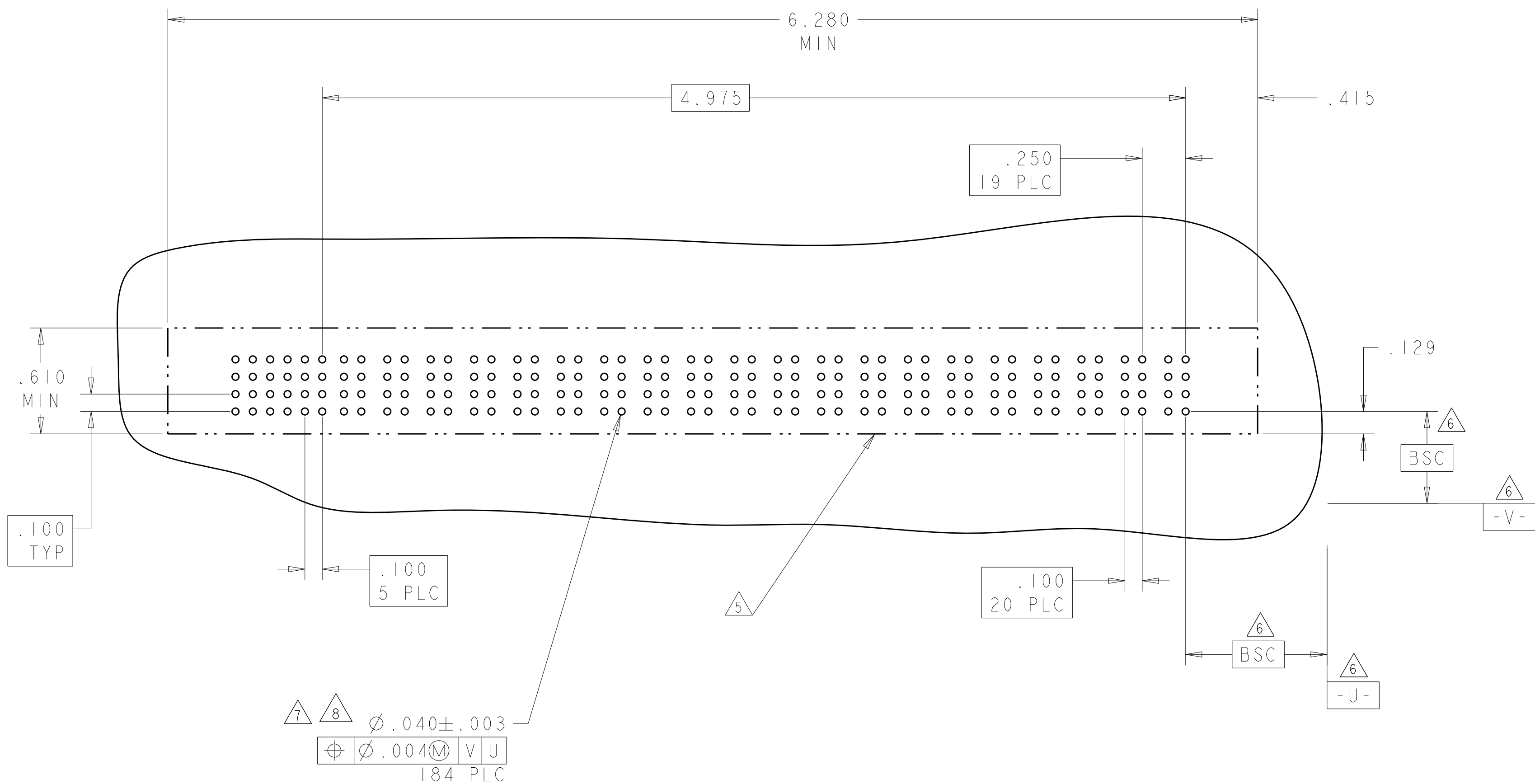
NAME: VERTICAL RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE: A1
CAGE CODE: 00779
DRAWING NO: C=6450542

RESTRICTED TO: -
SCALE: 4:1
SHEET: 4 OF 10
REV: H2

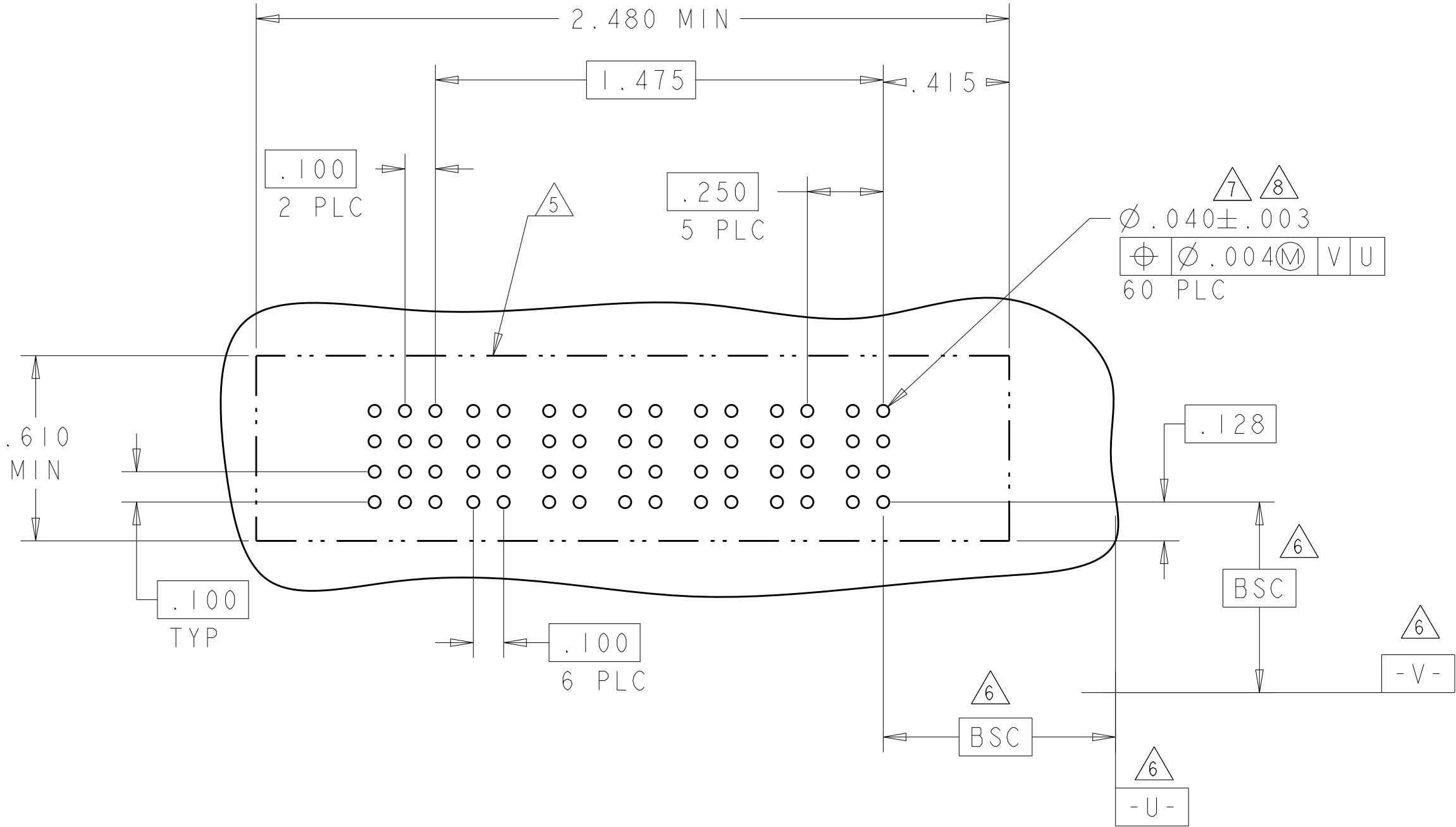
 TE Connectivity

PART NUMBER	ROWS		SIGNAL							POWER																					
			6	5	4	3	2	1	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3		P2	P1		
1-6450542-2	D C B A		AP	AP	AP	AP	AP	AP	AP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP		
			AP	AP	AP	AP	AP	AP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP		
			AP	AP	AP	AP	AP	AP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP		
			AP	AP	AP	AP	AP	AP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP		
20P + 24S																															

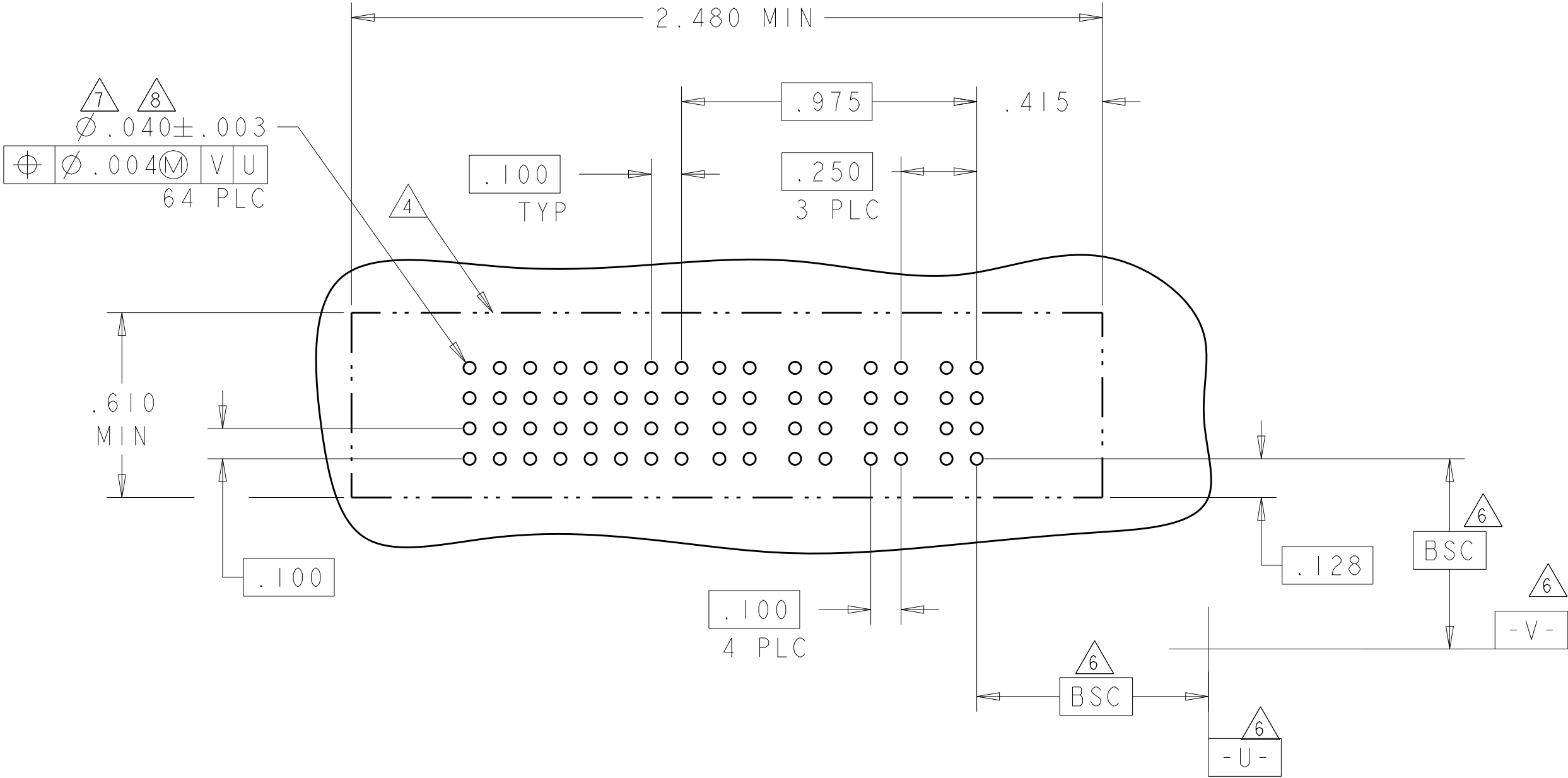
4805 (3/11)

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

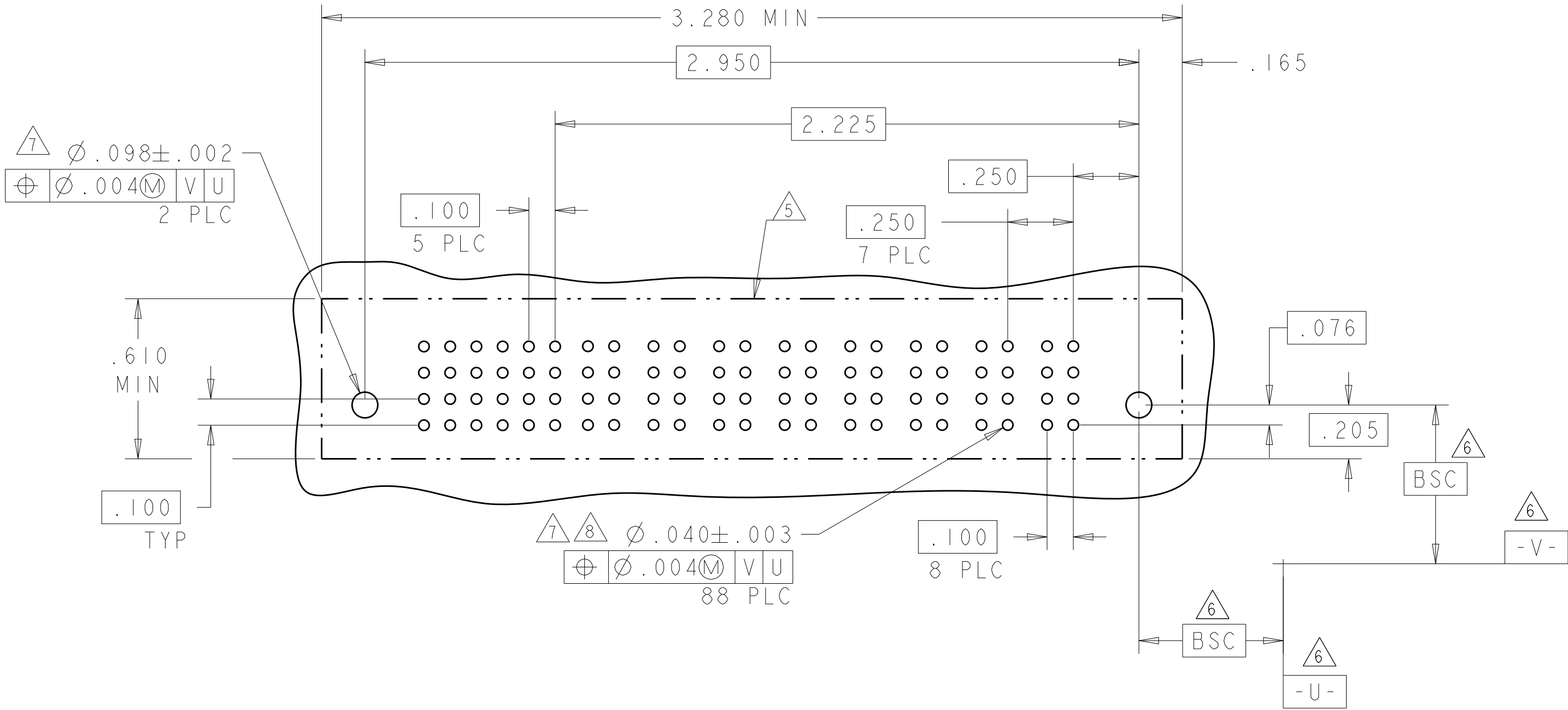
ASSY PART NUMBER	ROWS		SIGNAL			POWER						
			3	2	1	P6	P5	P4	P3	P2	P1	
I - 6450542-6	D C B A		AP	AP	AP	GS	GS	GS	GS	GS	GS	
			AP	AP	AP							
			AP	AP	AP							
			AP	AP	AP							
6P + 12S												



ASSY PART NUMBER	ROWS		SIGNAL								POWER				
			8	7	6	5	4	3	2	1	P4	P3	P2	P1	
1-6450542-7	D C B A		AP	AP	AP	AP	AP	AP	AP	AP		GS	GS	GS	GS
			AP	AP	AP	AP	AP	AP	AP	AP					
			AP	AP	AP	AP	AP	AP	AP	AP					
			AP	AP	AP	AP	AP	AP	AP	AP					
4P + 32S															



PART NUMBER	ROWS		SIGNAL						POWER							
			6	5	4	3	2	1	P8	P7	P6	P5	P4	P3	P2	
1-6450542-8	D C B A		AP	AP	AP	AP	AP	AP	GP	GP	GP	GP	GP	GP	GP	GP
			AP	AP	AP	AP	AP	AP								
			AP	AP	AP	AP	AP	AP								
			AP	AP	AP	AP	AP	AP								
8P + 24S																



THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN
R.GRZYBOWSKI
28FEB95

CHK
M.PERCHEKKE
28FEB05

APVD
M.PERCHEKKE

NAME

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

TE Connectivity

VERTICAL RECEPTACLE ASSEMBLY
WITH GUIDES
MULTI-BEAM XL

SIZE
A100779

CAGE CODE
C=6450542

DRAWING NO

RESTRICTED TO

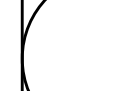
SCALE
4:1

SHEET
6

OF
10

REV
H2

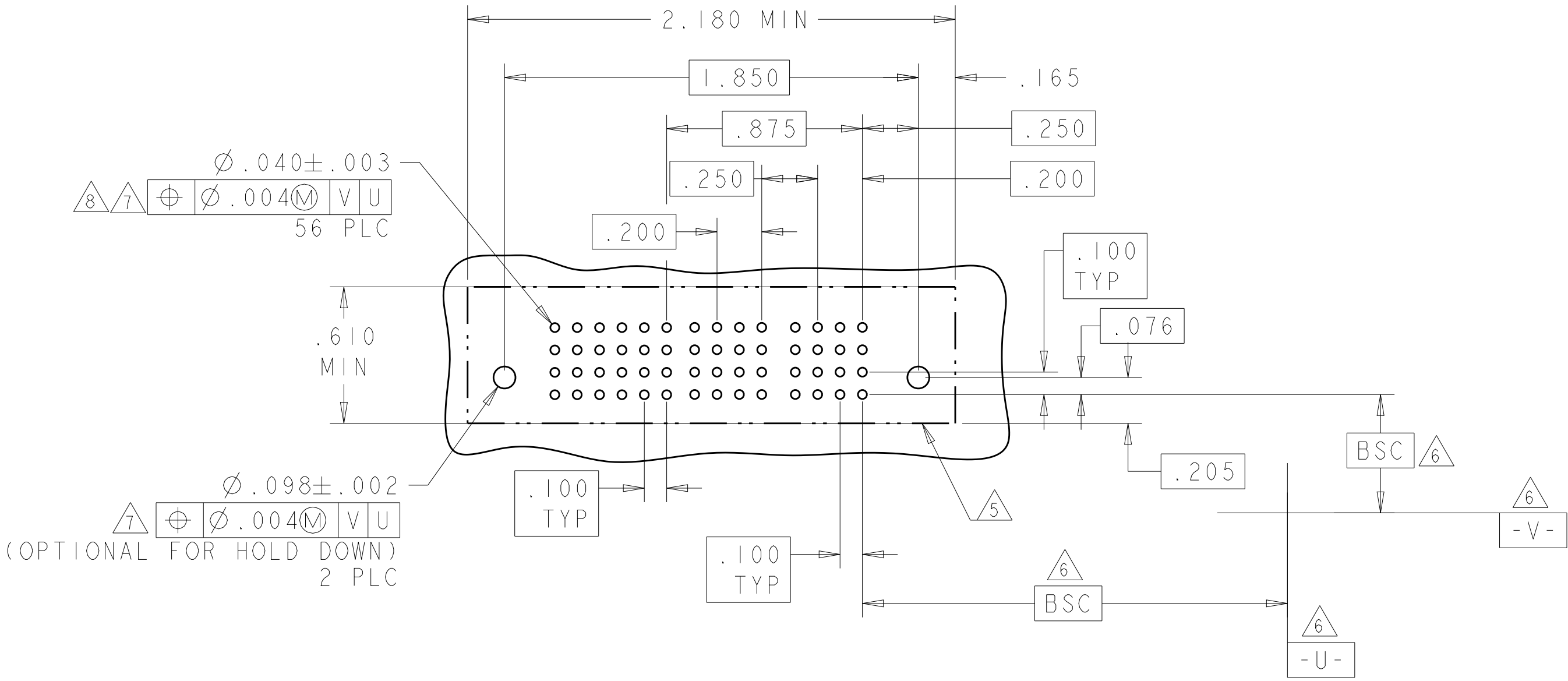
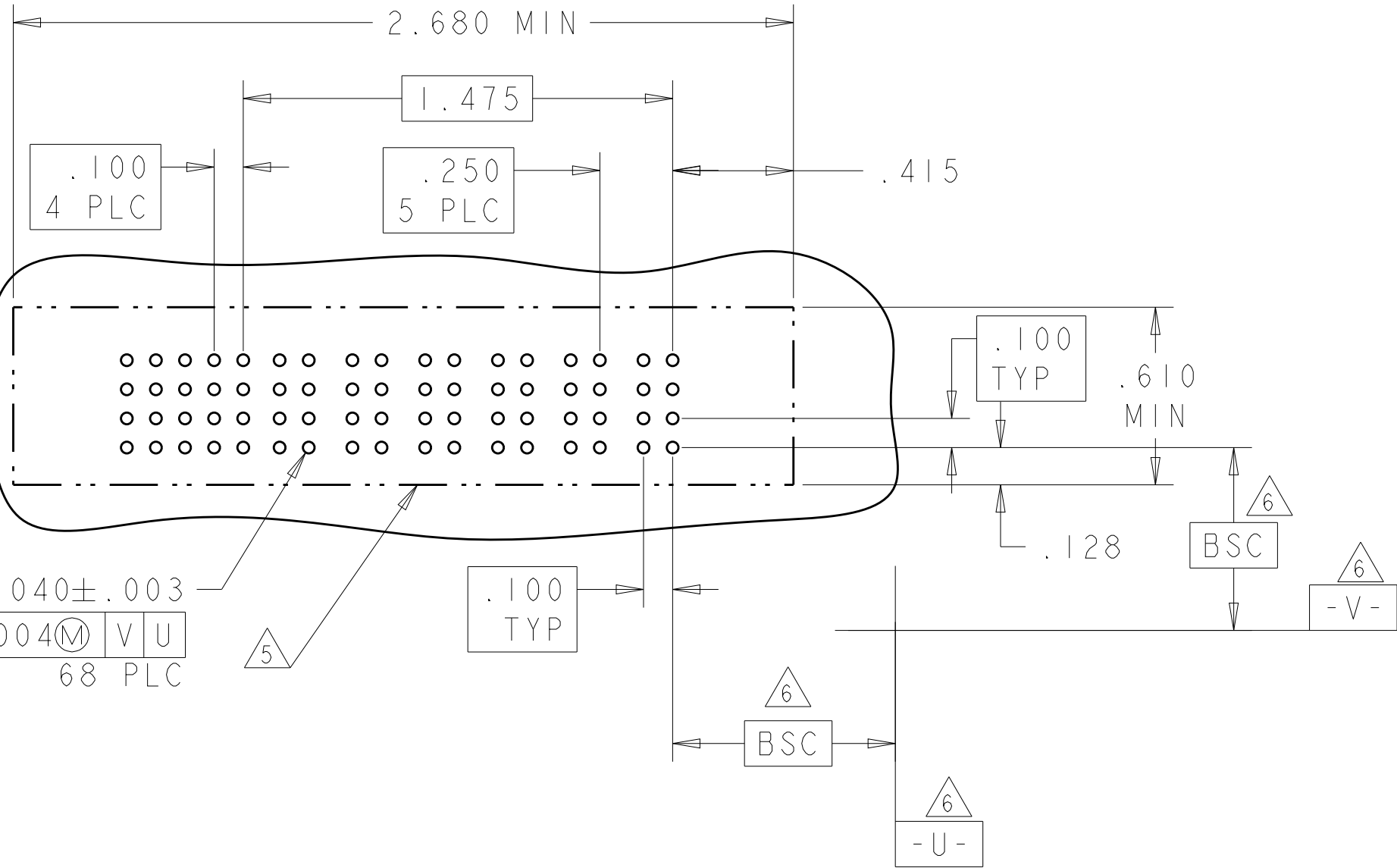
LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-	-	SEE SHEET 1	-	-	-

PART NUMBER	ROWS		SIGNAL						POWER				
			6	5	4	3	2	1	P4	P3	P2	P1	
1-6450542-9	D C B A		AP	AP	AP	AP	AP	AP					
			AP	AP	AP	AP	AP	AP					
			AP	AP	AP	AP	AP	AP					
			AP	AP	AP	AP	AP	AP					
4P + 24S													

.250

.200
2 PLC

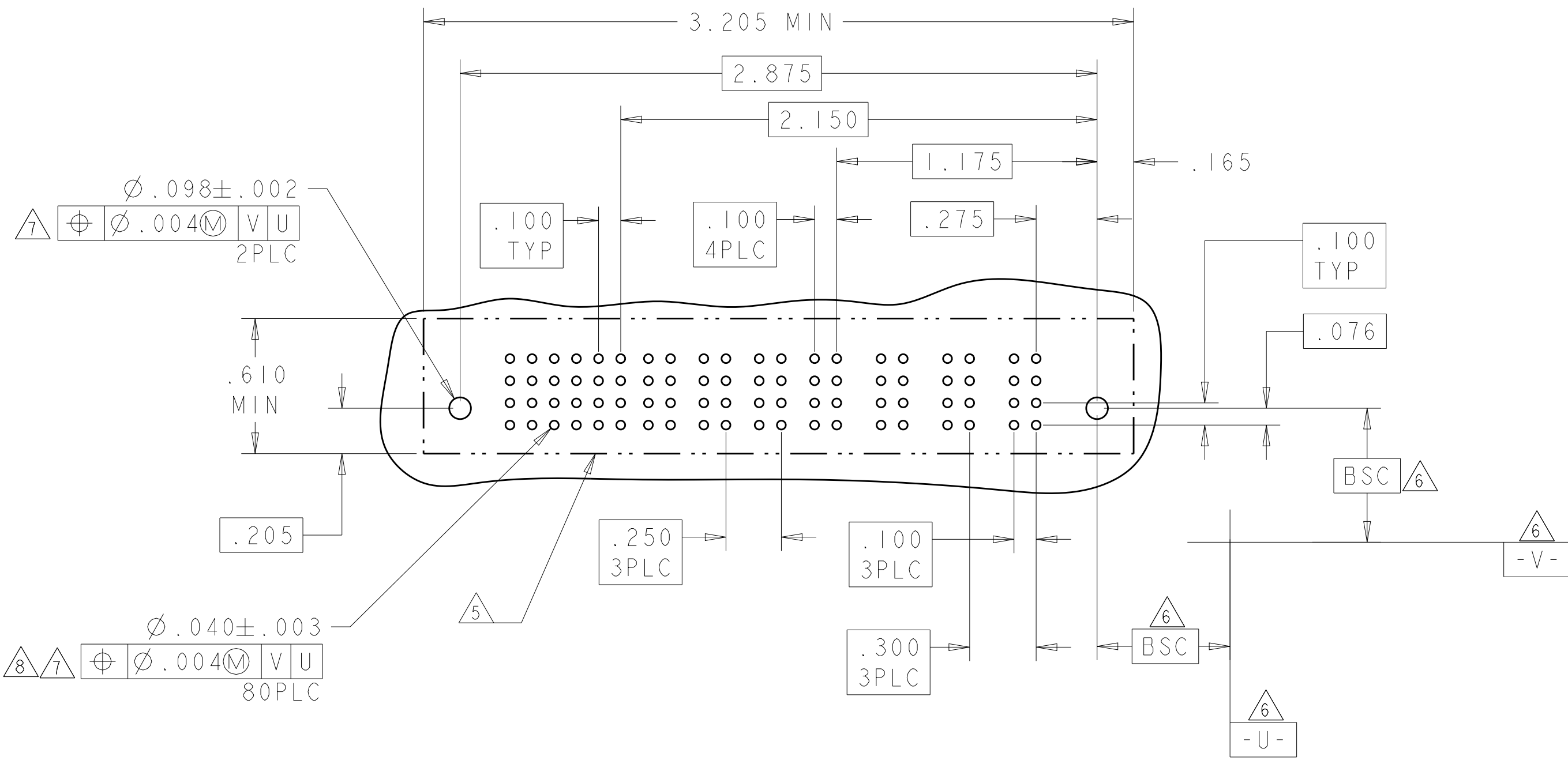
ASSY PART NUMBER	ROWS		SIGNAL					POWER						
			5	4	3	2	1	P6	P5	P4	P3	P2	P1	
2-6450542-0	D C B A		AP	AP	AP	AP	AP							
			AP	AP	AP	AP	AP							
			AP	AP	AP	AP	AP							
			AP	AP	AP	AP	AP							
6P + 20S														



PART NUMBER	ROWS		SIGNAL						POWER								
			6	5	4	3	2	1	P7	P6	P5	P4	P3	P2	P1		
2-6450542-4	D C B A		AP	AP	AP	AP	AP	AP	GS	GS	GS	GS	GS	GS	GS		
			AP	AP	AP	AP	AP	AP									
			AP	AP	AP	AP	AP	AP									
			AP	AP	AP	AP	AP	AP									
3ACP + 4P + 24S																	

.300
3PLC

.250
3PLC



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 ±.0020

ANGLES ±.2°

FINISH

-

DWN R.GRZYBOWSKI 28FEB95

CHK M.PERCHEKKE 28FEB05

APVD M.PERCHEKKE

PRODUCT SPEC 108-1973

APPLICATION SPEC 114-13038

WEIGHT

-

CUSTOMER DRAWING

NAME

VERTICAL RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE CAGE CODE DRAWING NO 100779

REV H2

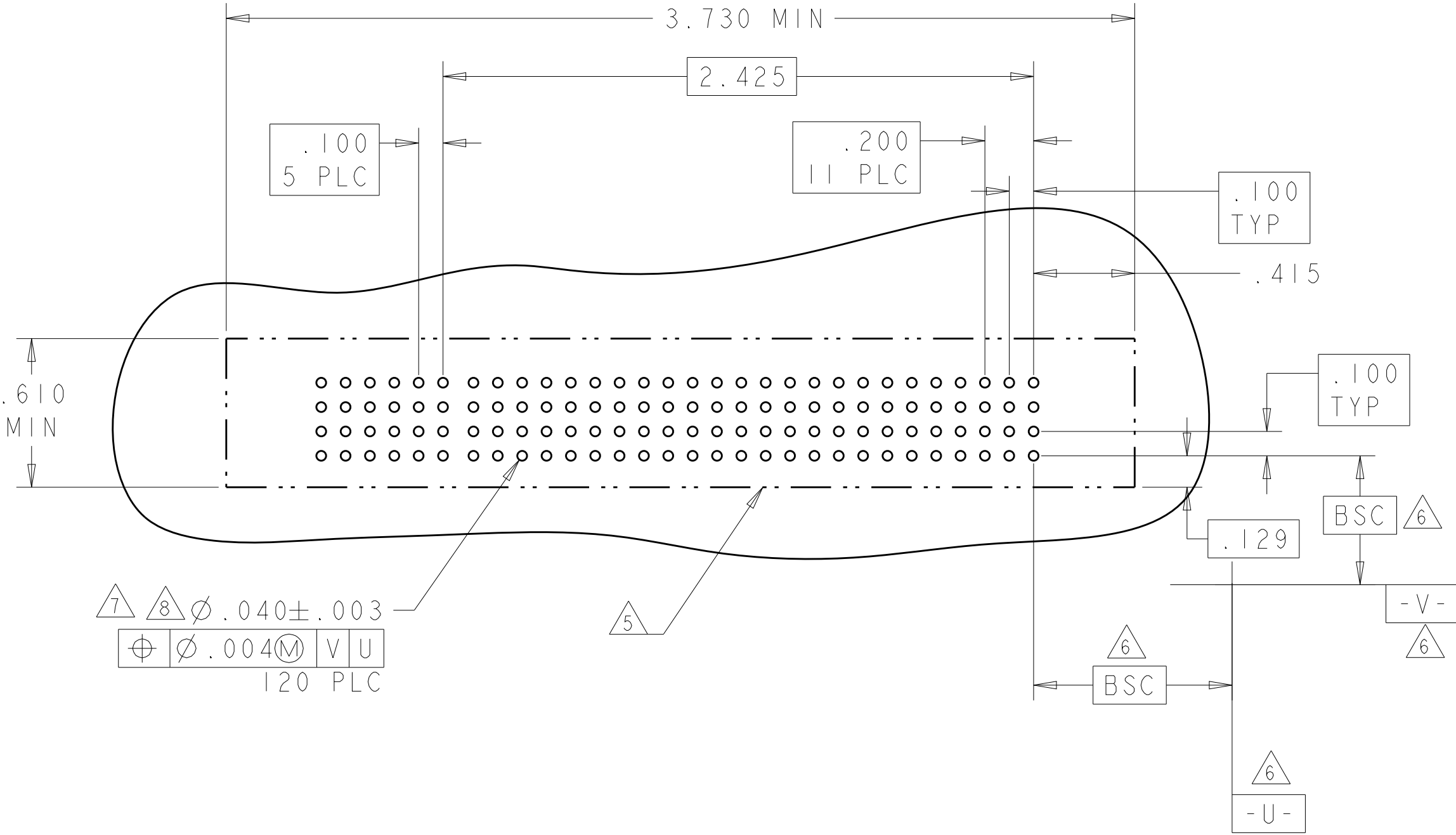
TE Connectivity

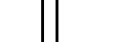
RESTRICTED TO

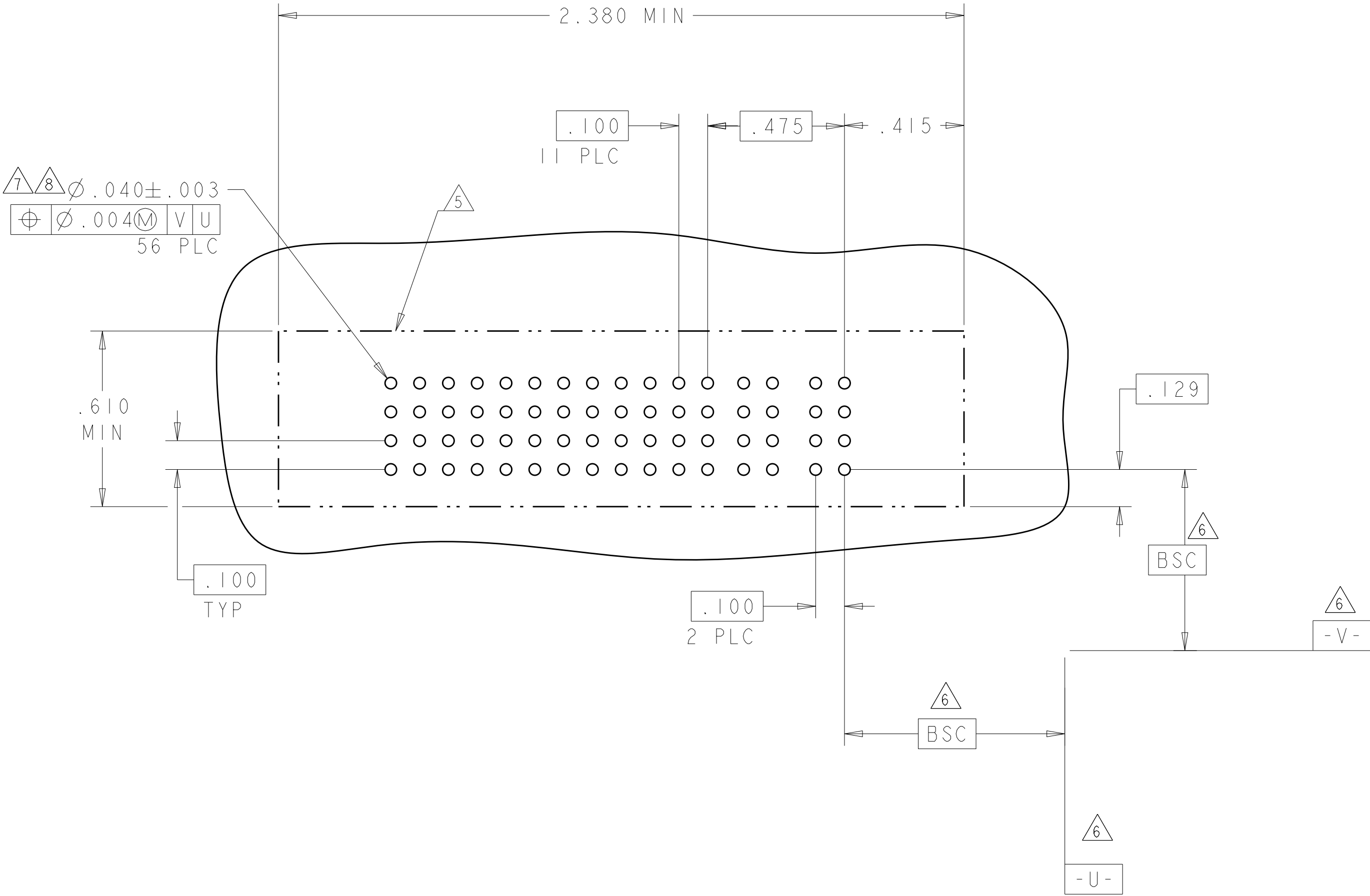
SCALE 4:1 SHEET 7 OF 10

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

PART NUMBER	ROWS		SIGNAL						POWER												
			6	5	4	3	2	1	P12	P11	P10	P09	P08	P07	P06	P05	P04	P03	P02	P01	
2-6450542-5	D C B A		AP	AP	AP	AP	AP	AP													
			AP	AP	AP	AP	AP	AP													
			AP	AP	AP	AP	AP	AP													
			AP	AP	AP	AP	AP	AP													
12HDP + 24S																					



ASSY PART NUMBER	ROWS		SIGNAL											POWER			
			12	11	10	9	8	7	6	5	4	3	2	1	P2		P1
1-6450542-4	D C B A		AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	GS	GS	
			AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP			
			AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP			
			AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP			
2P + 48S																	



THIS DRAWING IS A CONTROLLED DOCUMENT.

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

28FEB95
28FEB05
-

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
VERTICAL RECEPTACLE ASSEMBLY
WITH GUIDES
MULTI-BEAM XL

SIZE
A100779

CAGE CODE
C=6450542

DRAWING NO
-

RESTRICTED TO
-

SCALE
4:1

SHEET
8

OF
10

REV
H2

TE Connectivity

Technical drawing of a mechanical part, likely a bracket or plate, showing dimensions and tolerances. The drawing includes a top view and a side view.

Top View Dimensions:

- Overall width: 4.805 MIN
- Overall height: .610 MIN
- Distance from left edge to center of hole pattern: 1.800
- Distance between hole patterns: 1.200
- Distance from right edge to center of hole pattern: .415
- Distance from center of hole pattern to right edge: .400
- Distance from center of hole pattern to right edge: .100 TYP
- Distance from center of hole pattern to right edge: .200 4 PLC
- Distance from center of hole pattern to right edge: .100 7 PLC
- Distance from center of hole pattern to right edge: .100 TYP

Side View Dimensions:

- Overall height: .610 MIN
- Distance from top edge to center of hole pattern: .100 TYP
- Distance from center of hole pattern to bottom edge: .100 TYP
- Distance from center of hole pattern to bottom edge: .200 4 PLC
- Distance from center of hole pattern to bottom edge: .100 7 PLC
- Distance from center of hole pattern to bottom edge: .100 TYP

Feature Callouts:

- Feature 8: $\varnothing .040$
- Feature 7: $\varnothing .004$
- Feature 6: BSC
- Feature 5: SC
- Feature 4: -U-
- Feature 3: -V-

Material and Tolerances:

- Material: 148 PLC
- Tolerance: .040
- Tolerance: .004
- Tolerance: .100 TYP
- Tolerance: .200 4 PLC
- Tolerance: .100 7 PLC
- Tolerance: .100 TYP

4805 (3/11)

